

4K Integral 2 - 18Gbps

integral



User Manual 4K Integral Rev 2.33

FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the measures listed below.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice 1

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2

Shielded interface cables and A.C. power cord, if any, must be used in order to comply with the emission limits.

VOIR LA NOTICE D'INSTALLATION AVANT DE RACCORDER AU RESEAU.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation.

CE Conformity

Hereby, LegendSky Tech CO., LTD declares that this device is in compliance with the essential safety requirements and other relevant provisions set out in the European Directive.



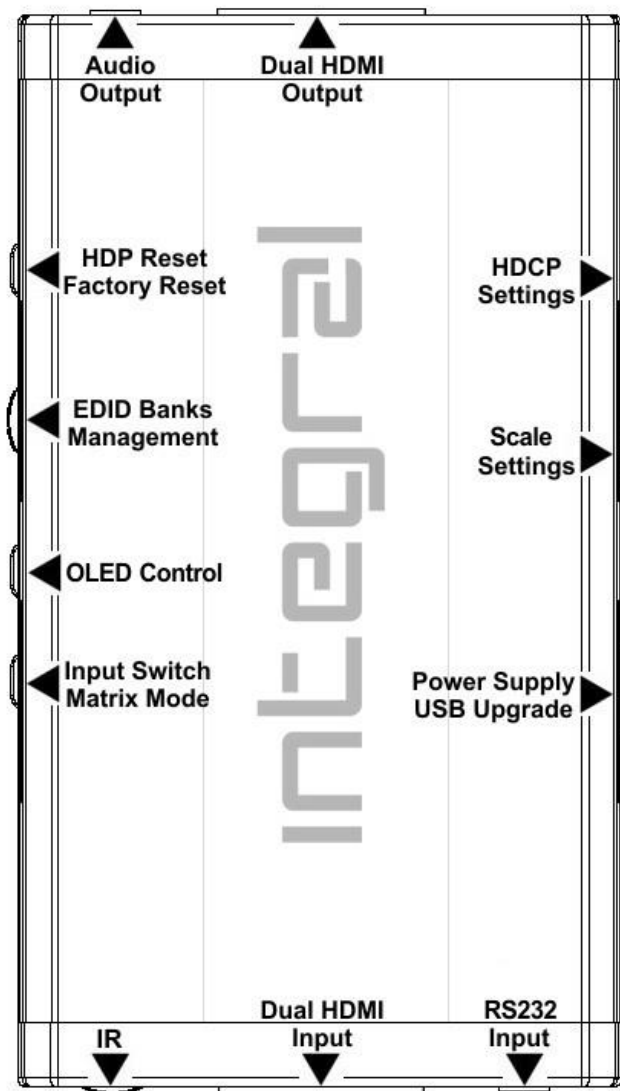
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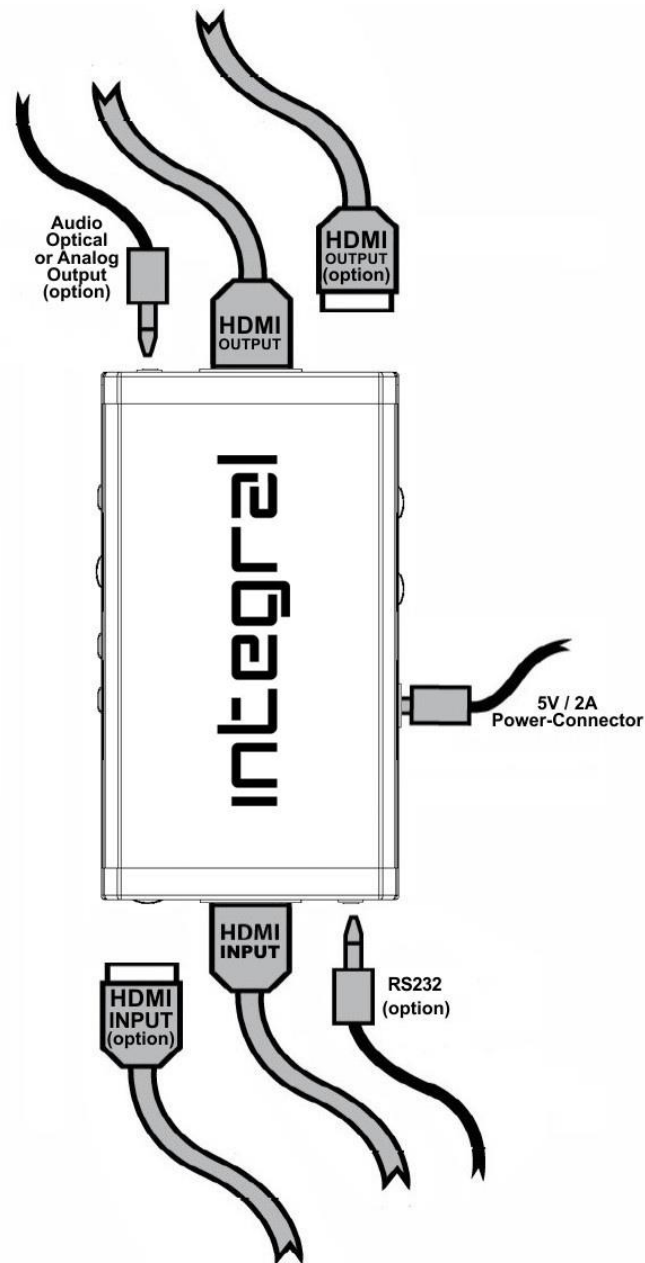
Overview

The HDfury team would like to thank you personally for purchasing the 4K Integral 2!

This unique HDMI2.0b and HDCP2.2 device supports true full 4K60 4:4:4 600MHz 18Gbps bandwidth signals. It will allow you to solve any HDCP error, Split or Matrix any SD/HD/FHD/UHD/HDR/DV or PC signals up to 600MHz, scale up or scale down between FHD and UHD on any channel individually, display relevant information on OSD, select between multiple edid banks, Inject Infoframe and more. Control can be completed with IR codes, through slide switch or push buttons on the unit, via a wired USB connection to a Windows PC, via RS232 (MAC/WIN/Linux) or through wireless Bluetooth connection with any Smartphone or Tablet running Android or iOS. ([GoBlue](#) mandatory for iOS/Android APP support)



Connecting Cables



To use your 4K Integral 2:

- Connect a HDMI input cable to the HDMI input.
- Connect a HDMI output cable to the HDMI output.
- Connect the Integral 2 power supply.
- Connect any additional HDMI input/output cable, RS232 or any audio output cable (optional).

HDMI/HDCP 1.x devices at output must be connected to TOP (Downscale) Output port. Make sure that you are using [600MHz certified HDMI 4K cable](#) if you plan to set up a 4K60 4:4:4 8b or 4K60 4:2:2 12b 600MHz 18Gbps link in your setup.

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

Power/Status LED



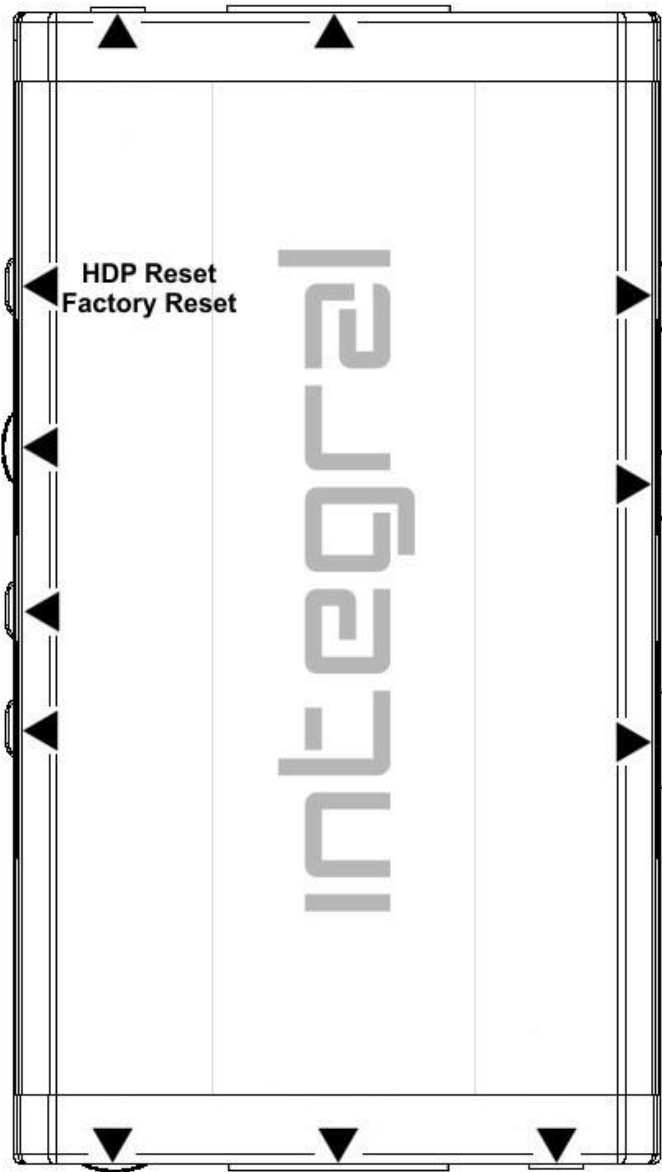
The Integral 2 Logo LED will shortly turn ON then OFF when power supply is applied, Integral 2 Logo will glow Green to indicate that the HDCP handshake has been completed.

The status of the Logo may be used for troubleshooting:

[LOGO OFF]: Insufficient power or no active input. Use the Integral 2 power supply; make sure the source is ON. Logo might also stay OFF based on INFO button conditions (see p.9)

[LOGO ON]: The Integral 2 is powered and receiving and decoding a HDMI signal.

Reset HPD (Short Press) or Reset to factory default (Long Press)



The 4K Integral 2 offers 2 functions per push button.

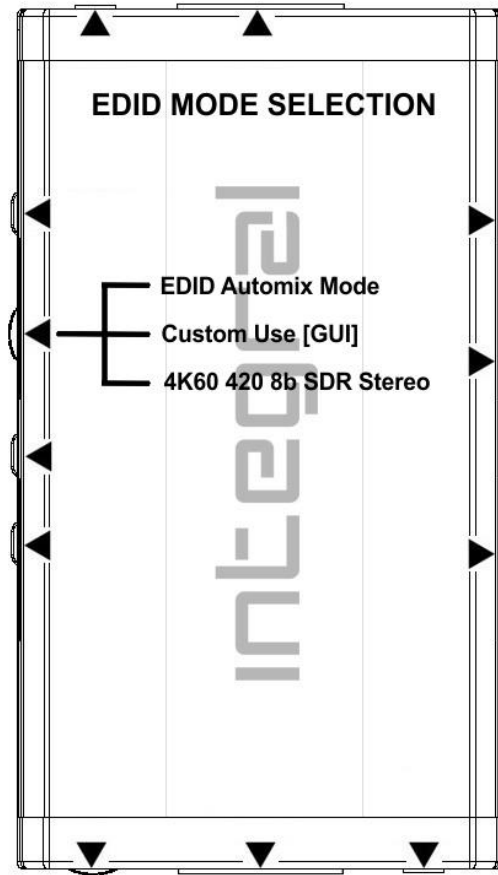
[Short Press] on Reset Button will generate Hot Plug Detection event.

[Long Press] (over 10s for security) will reset the Integral 2 to factory default.

Note: You can also Reset the unit or perform any others control with IR codes, from the USB GUI for Windows PC, through RS232 for MAC/WIN/Linux or via smartphone/tablet APP for Android and iOS.

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EDID Mode Selection



EDID slide switch has 3 positions.

Switch should be set to middle position to allow control via USB, IR, RS232 or Bluetooth device.

[Automix Mode]: Create EDID based on mutual sink capabilities controlled by a selectable algorithm with enforceable flags so both sinks will always show a picture and audio.

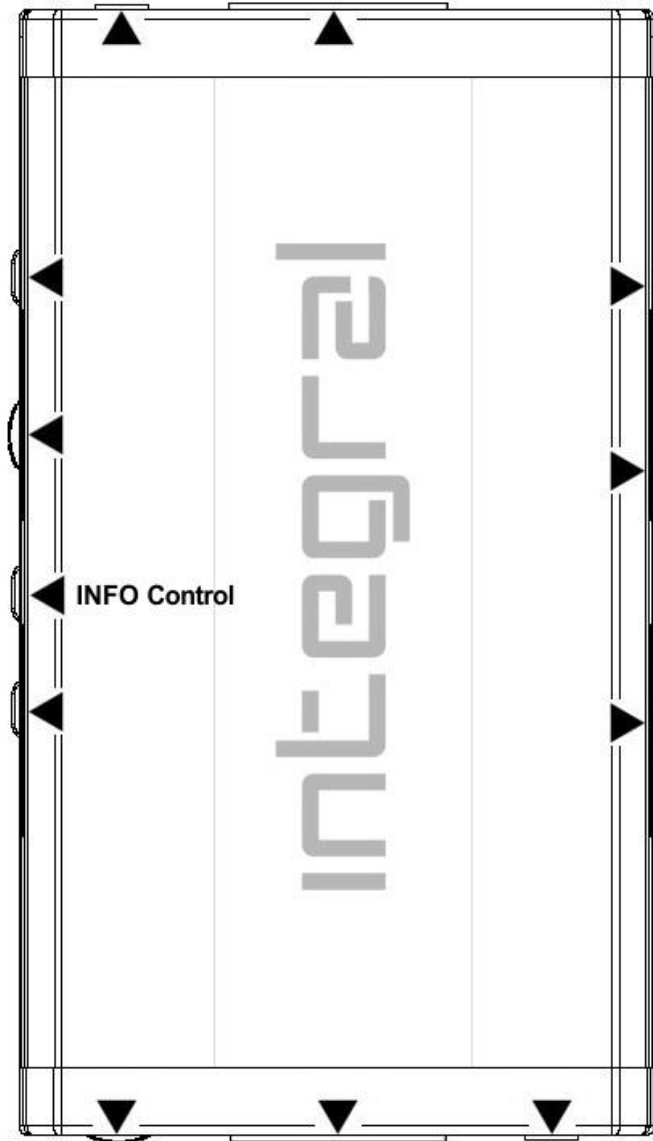
[Custom Use / BT]: Pick and use EDID from a selection of preloaded EDID tables (see p.14) or load any EDID bank of your choice. By default the selected EDID table is a 4K60 4:4:4 BT2020 HDR 600MHz with Full Audio capabilities. Leave the slide in this position to allow remote control via USB/IR/RS232 or Android/iOS APP and/or to pick and use any of the 100 different EDID tables available. Please note that Integral 2 can hold a specific individual EDID for each input.

[Fixed EDID with L/R Audio]: This mode is a 4K60 4:2:0 8b SDR 2channel stereo 300MHz basic table. It can be used as a security EDID to ensure a picture in mostly every setup/situation.

Note: You can also switch EDID mode and any others control with IR codes, from the USB GUI for Windows PC, RS232 for MAC/WIN/Linux or via smartphone/tablet APP for Android/iOS using [GoBlue](#).

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

INFO Control



INFO Control Button allows you to control the OSD info displayed and the light in your setup.

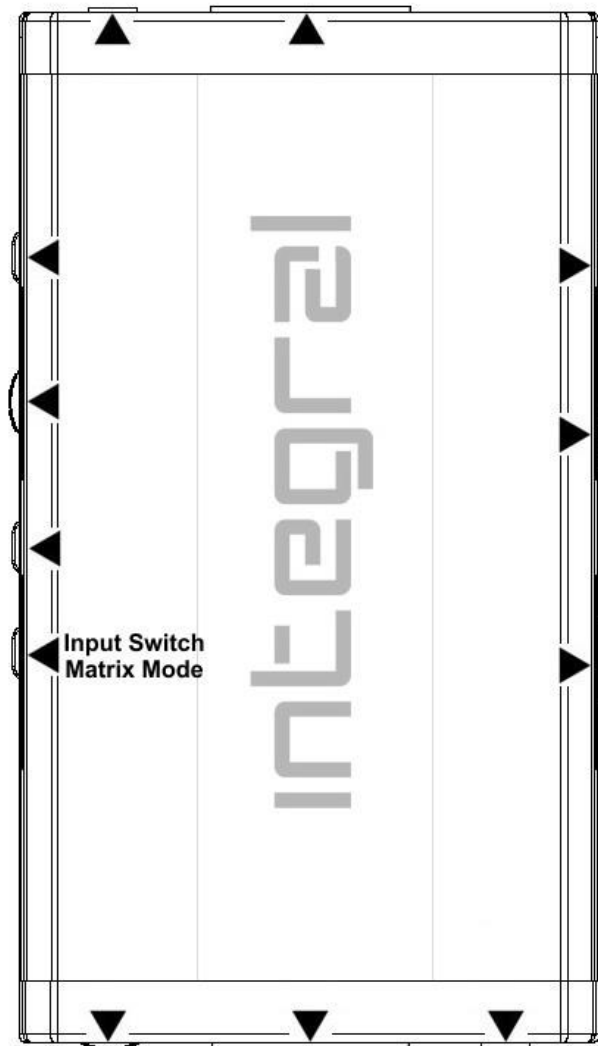
[Short Press] Turn OSD ON/OFF

[Long Press] (over 2sec) will cycle through OSD + Logo LED + Custom Text > Logo LED + OSD > OSD > Logo LED > None (no lights and no info at all)

Note: You can also control light in your setup and any others control with IR codes, from the USB GUI for Windows PC, RS232 for MAC/WIN/Linux or via smartphone/tablet APP for Android/iOS using [GoBlue](#).

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Input Switching and Matrix mode



Input Switch / Matrix Mode Button allow you to switch active inputs or enter/exit the Matrix mode.

[Short Press] will switch the active input channels in Splitter Mode and swap/cross signals in Matrix mode.

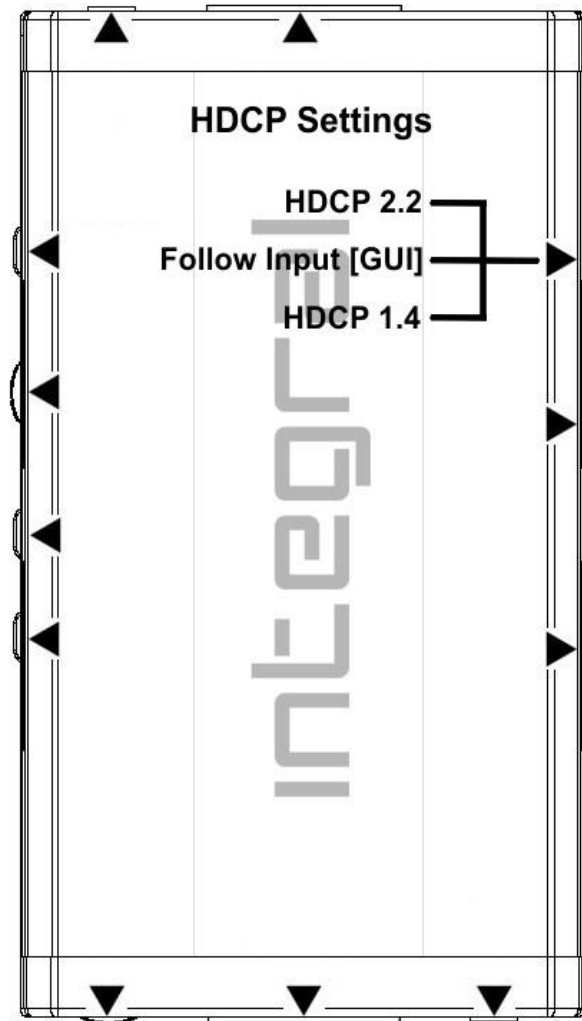
[Long Press] (over 2sec) will enter/exit the Matrix Mode

Integral 2 OSD will report the two active inputs in Matrix mode while only the current active input is reported via OSD in Splitter mode.

Note: You can also switch inputs and Matrix, Splitter mode and any others control with IR codes, from the USB GUI for Windows PC, RS232 for MAC/WIN/Linux or via smartphone/tablet APP for Android/iOS using [GoBlue](#).

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HDCP Settings



HDCP slide switch has 3 positions.

The switch should be set to the middle position to allow control via USB, IR, RS232 or a Bluetooth device.

[HDCP 2.2 Mode]: In this mode you always have HDCP 2.2 (if supported) on both output ports. If incoming signal is 1.4 then output will be 1.4 too.

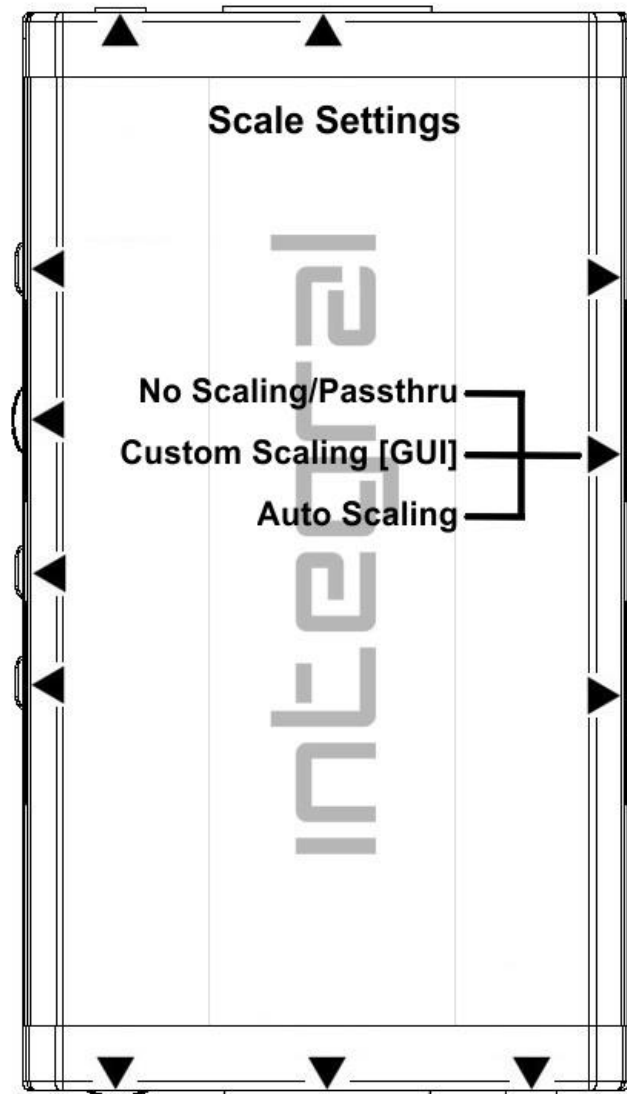
[HDCP Auto / GUI]: In this mode the Integral 2 unit makes sure that the conversion will always output a working signal. Both outputs are dynamic.

[HDCP 1.4]: In this mode, you always have HDCP1.4 on both output ports.

Note on HDCP: Both inputs accept HDCP1.4/2.2. Both outputs can work with HDCP1.4/2.2 devices.

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Scaler Settings



Scale slide switch has 3 positions.

The switch should be set to the middle position to allow control via USB, IR, RS232 or a Bluetooth device.

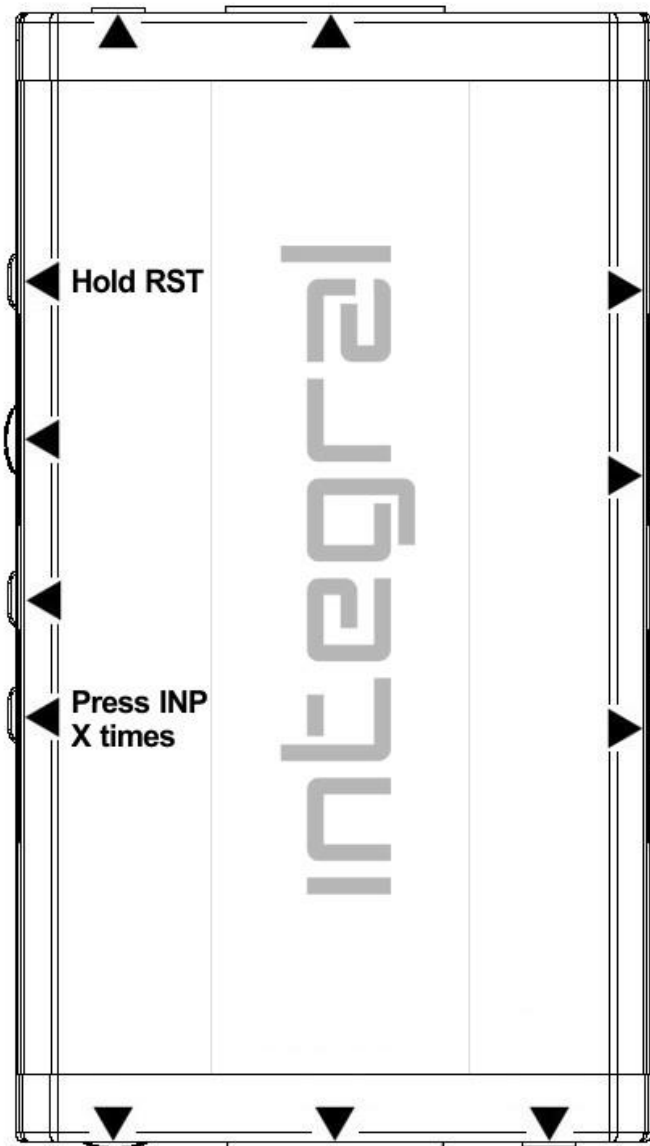
[No Scaling/Passthru]: What comes in/goes out, untouched.

[Custom Scaling/GUI]: This slide switch position will make use of custom defined scaling rules and allow change via Bluetooth, IR, RS232 or via USB.

[Auto Scaling]: In this mode, Integral 2 will auto-scale signals based on sink capabilities.

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

Combo Hold RST + Press INP



By default and/or after firmware flash, you might see a custom text displayed on OSD top left corner.

In case, you see such message: simply hold RST button and press INP buttons 2 times, then release.

Integral 2 OSD will prompt for power cycle. (remove/reconnect USB power cord)

After restart, there will be no more message displayed and Integral 2 is ready to operate optimally.

Combo Hold INFO control + Press INP

When auto-scale option is selected (see p.12), both output ports auto sense the connected display capabilities and try to scale/convert to the maximum capabilities.

TOP output port (TX1) can be further configured using GUI to achieve special modes depending on the input signal. The BOT output port (TX0) port is also auto-sensed and scaled/converted as needed. GUI have further options to prevent upscaling if user prefers no upscaling or let his display do the upscaling work.

For example, if the TOP supports up to 1080p60 8-bit, then an input of 4k will be down-converted. If the BOT port supports up to 4k60 420 300MHz then anything above this will be chroma converted to 300MHz. The algos detect deep color capabilities and bt2020 capabilities and will change the signal accordingly.

In addition 10 quick-presets are introduced for the TOP port scaling. They are activated by pressing and holding the "INFO " button and clicking the "INPUT/INP" button a number of clicks. Then when "INFO " is released the quick-preset is selected.

The presets are:

1. AUTOSENSE ALL (Default mode for Auto scaling, suitable for most use case)

2. 4k60 420 10 371MHz TV (e.g LG input 3)

[4k30 all -> 4k30 422 12 300MHz, 4k60 all -> 4k60 420 8 300MHz, 4k60hdr all -> 4k60 420 8/10/12 hdr]

3. 4k60 420 300MHz TV (for 4K)

[4k30 all -> 4k30 444 8 300MHz, 4k60 all -> 4k60 420 8 300MHz, 4k60hdr all -> 4k60 420 8 300MHz hdr]

4. 4k60 420 300MHz TV

[4k30 all -> 4k30 422 12 300MHz, 4k60 all -> 4k60 420 8 300MHz, 4k60hdr all -> 1080p60 444 8/10/12 hdr]

5. 4k60 420 300MHz TV (for color)

[4k30 all -> 4k30 422 12 300MHz, 4k60 all -> 1080p60 444 8/10/12, 4k60hdr all -> 1080p60 444 8/10/12 hdr]

6. 4K30 deepcolor PJ > 300MHz (e.g Wireless UB/TW Espon)

[4K30 all -> 4K30 all, 4k60 all -> 4k60 420 300MHz, 4k60hdr all -> 1080p60 444 8/10/12 hdr]

7. 4K30 deepcolor PJ at 300MHz (e.g Wired UB/TW Epson)

[4k30 all -> 4k30 422 12 300MHz, 4k60 all -> 4k60 420 8 300MHz, 4k60hdr all -> 1080p60 444 8/10/12 hdr]

8. 4k30 8-bit 300MHz TV

[4k30 all -> 4k30 8, 4k60 all -> 1080p60 444 8/10/12, 4k60hdr all -> 1080p60 444 8/10/12 hdr]

9. 1080p60 TV

[4k30 all -> 1080p30 8/10/12, 4k60 all -> 1080p60 444 8/10/12, 4k60hdr all -> 1080p60 444 8/10/12 hdr]

10. 1080p60 8b device (e.g Ambilight)

[4k30 all -> 1080p30 8/10/12, 4k60 all -> 1080p60 444 8, 4k60hdr all -> 1080p60 444 8 hdr]

List of Custom EDID available.

User can select an EDID from all below EDID tables or force the creation of an Automix EDID with below options.

[FIXED EDID with L/R stereo]

4K60 4:2:0 300MHz 8b 2ch audio

[CUSTOM USE]

1. CUSTOM 1 [Default FULL no DV]
2. CUSTOM 2 [FULL + LG DV]
3. CUSTOM 3 [FULL + Vizio DV]
4. CUSTOM 4 [Q9FN ALLM VRR HDR10+]
5. CUSTOM 5 [SONY A1 LLDV V2]
6. CUSTOM 6 [LG65C7 DV V1]
7. CUSTOM 7 [VISIO M50E1 DV V0]
8. CUSTOM 8
9. CUSTOM 9
10. CUSTOM 10
11. 4K60-444 600MHz HDR BT2020 All Sound
12. 4K60-444 600MHz HDR BT2020 SPDIF
13. 4K60-444 600MHz HDR BT2020 Stereo
14. 4K60-444 600MHz BT2020 All Sound
15. 4K60-444 600MHz BT2020 SPDIF
16. 4K60-444 600MHz BT2020 Stereo
17. 4K60-444 600MHz All Sound
18. 4K60-444 600MHz SPDIF
19. 4K60-444 600MHz Stereo
20. 4K50-444 600MHz HDR BT2020 All Sound
21. 4K50-444 600MHz HDR BT2020 SPDIF
22. 4K50-444 600MHz HDR BT2020 Stereo
23. 4K50-444 600MHz BT2020 All Sound
24. 4K50-444 600MHz BT2020 SPDIF
25. 4K50-444 600MHz BT2020 Stereo
26. 4K50-444 600MHz All Sound
27. 4K50-444 600MHz SPDIF
28. 4K50-444 600MHz Stereo
29. 4K60-420 12bit HDR BT2020 All Sound
30. 4K60-420 12bit HDR BT2020 SPDIF
31. 4K60-420 12bit HDR BT2020 Stereo
32. 4K60-420 12bit BT2020 All Sound
33. 4K60-420 12bit BT2020 SPDIF
34. 4K60-420 12bit BT2020 Stereo
35. 4K60-420 12bit All Sound
36. 4K60-420 12bit SPDIF
37. 4K60-420 12bit Stereo
38. 4K60-420 8-bit 300MHz HDR BT2020 All Sound

39. 4K60-420 8-bit 300MHz HDR BT2020 SPDIF
40. 4K60-420 8-bit 300MHz HDR BT2020 Stereo
41. 4K60-420 8-bit 300MHz BT2020 All Sound
42. 4K60-420 8-bit 300MHz BT2020 SPDIF
43. 4K60-420 8-bit 300MHz BT2020 Stereo
44. 4K60-420 8-bit 300MHz All Sound
45. 4K60-420 8-bit 300MHz SPDIF
46. 4K60-420 8-bit 300MHz Stereo
47. 4K30-444 300MHz HDR BT2020 All Sound
48. 4K30-444 300MHz HDR BT2020 SPDIF
49. 4K30-444 300MHz HDR BT2020 Stereo
50. 4K30-444 300MHz BT2020 All Sound
51. 4K30-444 300MHz BT2020 SPDIF
52. 4K30-444 300MHz BT2020 Stereo
53. 4K30-444 300MHz All Sound
54. 4K30-444 300MHz SPDIF
55. 4K30-444 300MHz Stereo
56. 4K30-RGB 300MHz HDR BT2020 ALL audio
57. 4K30-RGB 300MHz HDR BT2020 SPDIF
58. 4K30-RGB 300MHz HDR BT2020 Stereo
59. 4K30-RGB 300MHz BT2020 ALL audio
60. 4K30-RGB 300MHz BT2020 SPDIF
61. 4K30-RGB 300MHz BT2020 Stereo
62. 4K30-RGB 300MHz ALL audio
63. 4K30-RGB 300MHz SPDIF
64. 4K30-RGB 300MHz Stereo
65. 4K24-422 12-bit HDR BT2020 All Sound
66. 4K24-422 12-bit HDR BT2020 SPDIF
67. 4K24-422 12-bit HDR BT2020 Stereo
68. 4K24-422 12-bit BT2020 All Sound
69. 4K24-422 12-bit BT2020 SPDIF
70. 4K24-422 12-bit BT2020 Stereo
71. 4K24-422 12-bit All Sound
72. 4K24-422 12-bit SPDIF
73. 4K24-422 12-bit Stereo
74. 1080p60-444 12-bit HDR BT2020 All Sound
75. 1080p60-444 12-bit HDR BT2020 SPDIF
76. 1080p60-444 12-bit HDR BT2020 Stereo
77. 1080p60-444 12-bit BT2020 All Sound
78. 1080p60-444 12-bit BT2020 SPDIF
79. 1080p60-444 12-bit BT2020 Stereo
80. 1080p60-444 12-bit All Sound
81. 1080p60-444 12-bit SPDIF
82. 1080p60-444 12-bit Stereo
83. 1080p24-444 12-bit HDR BT2020 All Sound
84. 1080p24-444 12-bit HDR BT2020 SPDIF
85. 1080p24-444 12-bit HDR BT2020 Stereo
86. 1080p24-444 12-bit BT2020 All Sound

87. 1080p24-444 12-bit BT2020 SPDIF
88. 1080p24-444 12-bit BT2020 Stereo
89. 1080p24-444 8-bit All Sound
90. 1080p24-444 8-bit SPDIF
91. 1080p24-444 8-bit Stereo
92. 1080i60-444 8-bit All Sound
93. 1080i60-444 8-bit SPDIF
94. 1080i60-444 8-bit Stereo
95. 720p60-444 8-bit All Sound
96. 720p60-444 8-bit SPDIF
97. 720p60-444 8-bit Stereo
98. 480p60-444 8-bit All Sound
99. 480p60-444 8-bit SPDIF
100. 480p60-444 8-bit Stereo

[AUTOMIX]

Enforceable flags available in Automix mode:

2.0 Stereo, 5.1 Multi, 7.1 Full Sound, Native, BT.2020/xvYcc, HDR10+, HLG, Dolby Vision, 3D Remove, YCbCr Remove

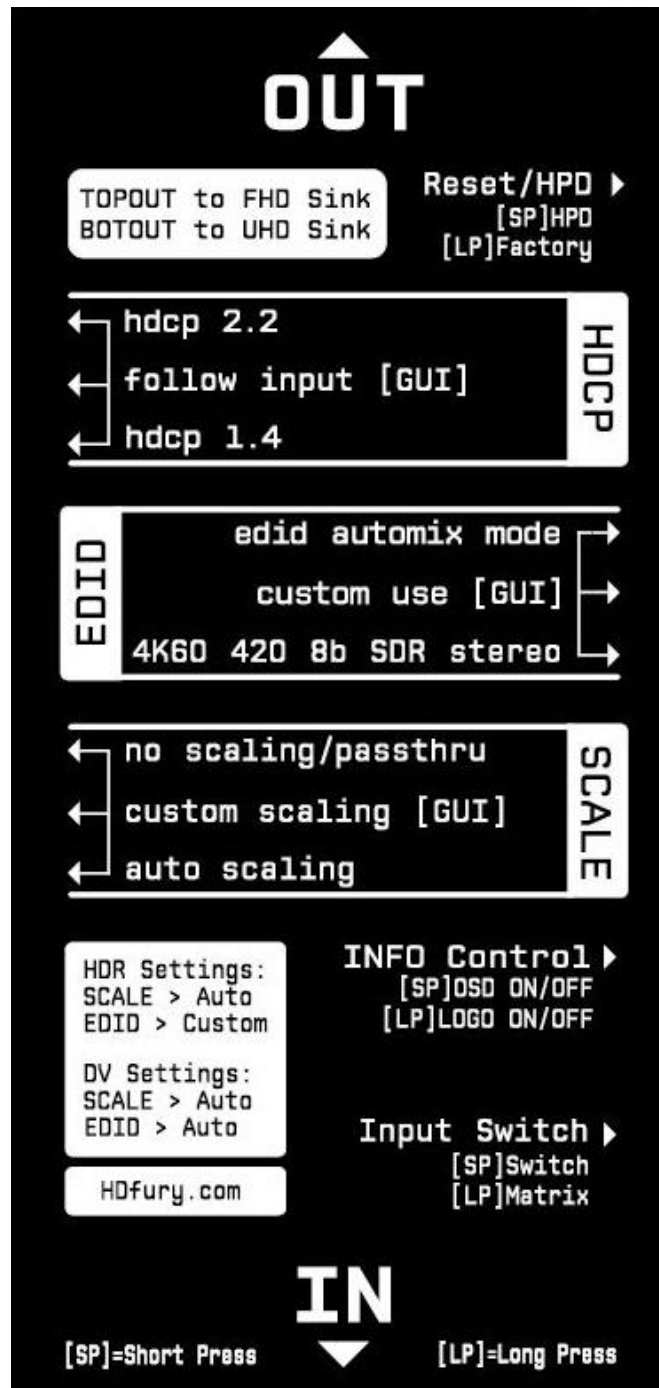
Selectable algorithms available in Automix mode:

Min Mixed Capabilities, Max Audio/Min Video, Top Output Priority, Bot Output Priority, Max Audio/Max Video

Note: All options are also available via IR, USB GUI, RS232 or Android/iOS APP.

To upload a custom EDID or Sniff EDID from sink device, please refer to GUI section p.24

Backside Sticker



A sticker is available on the back of the unit to remind you the basic configuration options available from the physical button and slide switches as well as the **Short Press [SP]** and **Long Press [LP]** functions of each button. INFO Control button was since updated, see p.9

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

Selecting your Windows PC Driver for USB GUI and Firmware update

Make sure to install the right Silabs driver for Windows PC based on your Windows OS version and USB port version.

Silabs Driver 4.0.0 for XP/VISTA/WIN7/WIN8/WIN10

[Silabs Driver 4.0.0 - ZIP - 9.18 Mo](#)

USB2.0: WIN XP / VISTA / WIN7 / WIN8 / WIN10

USB3.0: WIN10 / Partial support for others Windows version.

Silabs Driver 3.9.2 for XP/VISTA/WIN7/WIN8

[Silabs Driver 3.9.2 - ZIP - 1.65 Mo](#)

USB2.0: WIN XP / VISTA / WIN7 / WIN8

USB3.0: WIN XP / VISTA / WIN7 / WIN8

If you are using Windows 10, the Silabs Driver 4.0.0 is mandatory.

However, Silabs driver 4.0.0 only have partial support for USB3.0 on Win8 and previous Windows version, so you might prefer the 3.9.2 in such case.

If you are using Windows XP, the Silabs Driver 3.9.2 is mandatory. It is recommended to try the 4.0.0 version first on any Windows version other than XP.

For installation simply download from the above link, unzip and then run the .EXE file

Silabs 3.9.2 driver: run the USBXpressInstaller.exe

Silabs 4.0.0 driver: USBXpressInstaller_x86.exe for 32bit or USBXpressInstaller_x64.exe for 64bit.

Once you have correctly selected, downloaded and installed the right driver, you can proceed with either updating Firmware (p.20) or using GUI utility (p.24)

Both Firmware update and GUI utility provides 2 directories labelled as per Driver version, make sure to use the right directory matching your driver version.

Ex: If you installed 3.9.2 driver, Use the 3.9.2 directory to run Firmware update or the 3.9.2 directory to run the GUI utility.

Note: You can install or remove any driver any time:

Control Panel > Program > Remove Software.

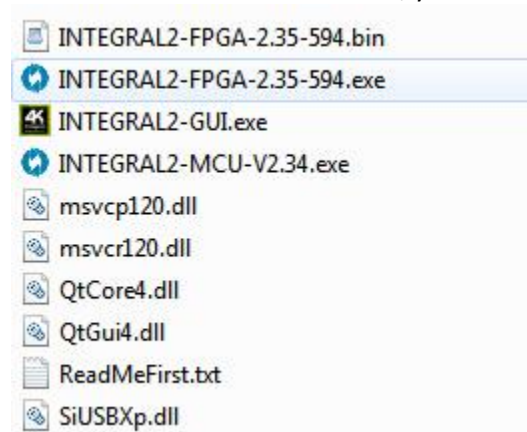
Updating your Integral 2 Firmware with a Windows PC

The Integral 2 Firmware Updater is compatible with all Windows from Win XP to Win 10.

Make sure you have installed the right Silabs driver based on your Windows version and USB port as described in previous page.

You can download the latest Firmware version for your Integral 2 device from the Download Tab on the Integral 2 Product page: [here](#). If you are unsure about your Firmware version currently in use, simply use the Total Control APP for Android/iOS info page or the USB GUI for Windows PC to retrieve it.

Once downloaded and extracted, you should have a directory on your computer with the following files



You will have to run both Update FPGA and Update MCU to successfully upgrade your Integral 2 unit.

Note: Version number could be different depending on the FW revision you downloaded.

You can start by any of them; there is no particular order to respect.

However, you might prefer to start by MCU update as it does not require mandatory power cycle.

FPGA update will take about 50s while MCU update is taking less than 5s.

After updating the FPGA firmware, you will be prompted to power cycle your Integral 2 unit, you won't see any light about 15s as the unit is reconfiguring itself. Once ready, light will come back on. This is only valid for any FPGA update.

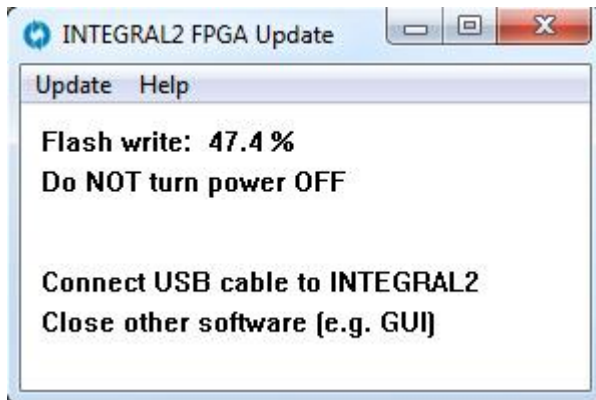
If any issue after update, please refer to p.13

FPGA Update Instructions

Double-click Integral 2 FPGA executable (if needed, right-click and select Run as Administrator)
The below window will open.



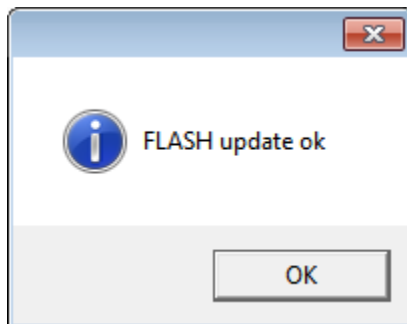
Click **Update Firmware** as shown on the above picture.



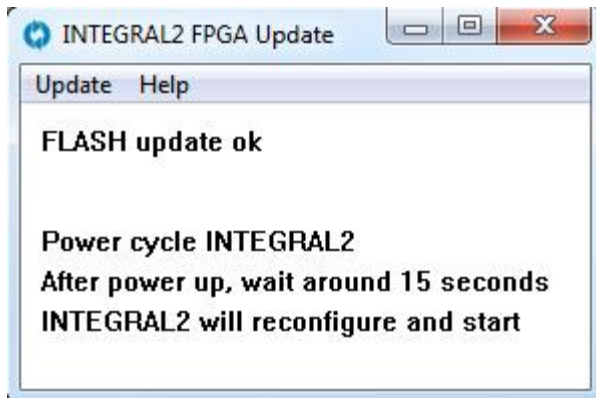
Flashing time is around 50 seconds

Do not disconnect your device while the upgrade process is running.

Once completed, you will hear a windows notification sound and the below window will pop up.



Simply click **OK** and the main updater will display the below message.



This confirms the FPGA update process is completed; you can process to next step. After power cycling your Integral 2 unit, you won't see any light for about 15s as the unit is reconfiguring itself. Once ready, light will come back on. This is only valid for any FPGA update.

MCU Update Instructions

Double-click UpdateMCU executable (if needed, right-click and select Run as Administrator)
The below window will open.

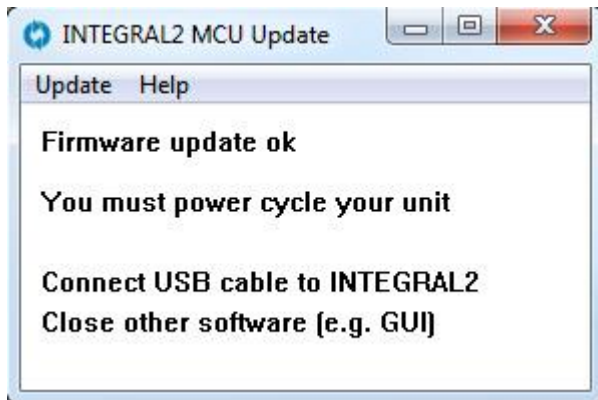


Click **Update Firmware** as shown on the above picture.
Flashing time is less than 5 seconds.

Once completed, you will hear a windows notification sound and the below window will pop up.

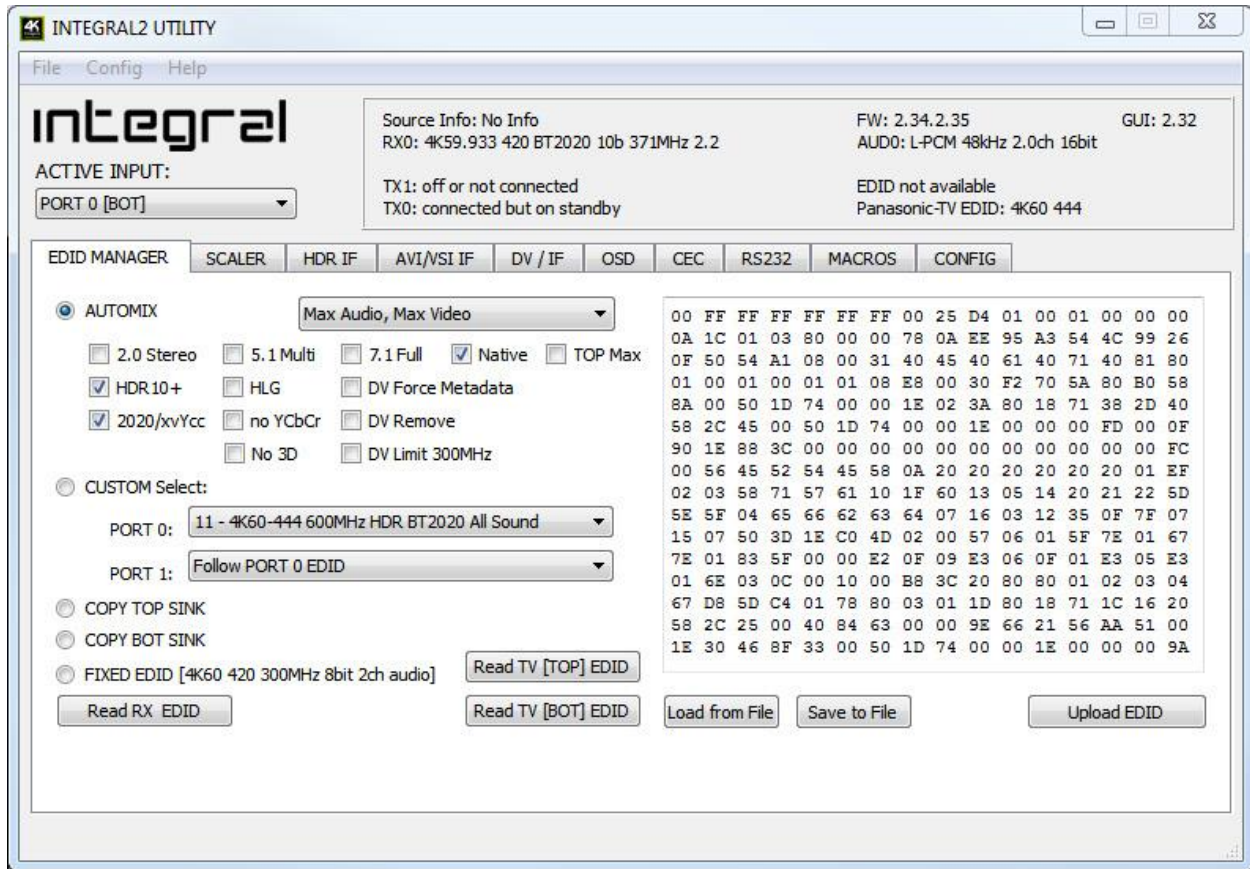


Simply click **OK** and the main updater will display the below message.



Congratulations, you have successfully updated both the MCU and FPGA and your unit is now ready to operate with the benefits from the latest software additions.

Integral 2 USB GUI (Software for Windows PC)



The USB GUI is compatible with all Microsoft Windows version from Win XP to Win 10.

Make sure you have installed the right Silabs driver based on your Windows version and USB port as described in p.19

You can download the latest GUI version for your Integral 2 device from the Download Tab on the Integral 2 Product page: [here](#). Always run latest FW when running latest GUI to benefit from all new features.

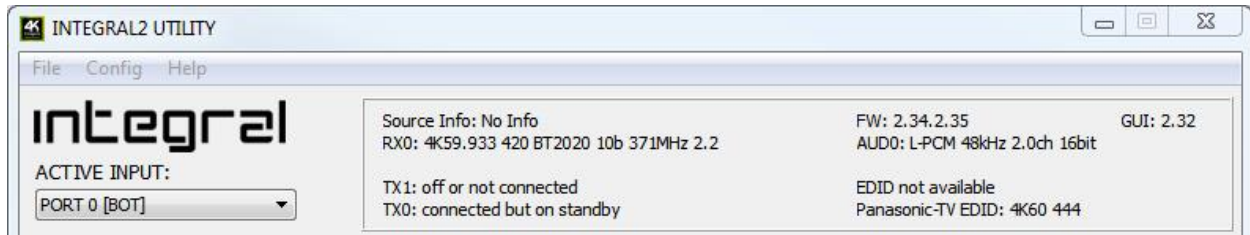
The USB GUI for Windows PC allows the following control:

- Display Information on Source device when available.
- Display Input signal resolution, refresh rate and bandwidth.
- Display Input signal Color Space and Deep Color.
- Display Input signal encryption.
- Display Input signal detected Audio type.
- Display Information on Sink device when available.
- Display Output signal resolution, refresh rate and bandwidth.
- Display Output signal Color Space and Deep Color.

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

- Display Output signal encryption.
- Display the Firmware version and Windows GUI revision.
- Display Active input information.
- Switch Active Input or enter/exit Matrix modes.
- Select EDID Mode (Sink, Custom, Fixed)
- Select the default EDID table from a selection of 100 preloaded EDID banks.
- Use similar or different EDID for each input.
- Select forced flags for Automix mode. (2.0, 5.1, 7.1 Full, Native, Top Max, BT.2020/xvYcc, HDR10+, HLG, DV Force, DV Remove, DV Limit, no 3D, no YCbCr)
- Select Automix Algo
- Sniff EDID from connected sink devices. (Read EDID from TOP and BOT output)
- Read, Write, Load, and Save and Upload any custom EDID bank.
- Define Scaling rules (No Scaling, Custom Scaling, Auto Scaling)
- Select preferred Custom Scaling Modes
- Select Scaling rules from available 4K30 presets
- Select Scaling rules from available 4K60 and 4K60 4:2:2 presets
- Set preferred Scaling options (Downscale, Thru and Up)
- Defines Color Space and Deep Color for Downscale, Thru and Up.
- Display Captured HDR Metadata.
- Send Live HDR Metadata created with Custom HDR metadata generator.
- Autofill CRC for HDR infoframe.
- Disable HDR by cancelling all incoming HDR metadata (JVC PJ mode)
- Display Captured AVI and Vendor Specific InfoFrame.
- Send Custom AVI and Vendor Specific Infoframe.
- Disable AVI and VSI.
- Save Dobby Vision mandatory string from connected sink.
- Display captured SPD, Audio, HDMI Vendor Specific and HDMI Forum VSIF Infoframe.
- Enable/Disable OSD notification.
- Set OSD location, color, transparency, background.
- Select OSD info to be displayed (Source, Video Field, Video IF, HDR RX/TX, HDR IF, Audio, RX HDR).
- Select OSD timer for OSD fade out.
- Enable or Disable OSD Mask.
- Set location and OSD mask transparency.
- Enable or Disable OSD custom text.
- Set location for OSD custom text.
- Edit OSD custom text.
- Send Live HDMI CEC command.
- Turn ON/OFF CEC processing.
- Define CEC ID# (Either AVR ID#5 for ARC feature or processor ID#14)
- Turn ON or OFF the Autoswitch feature.
- Set Input Priority for Autoswitch mode (Normal/Forced)
- Select HDCP output revision.
- Enable or disable Logo.
- Issue Hotplug (Soft Reset)
- Reset the unit to Factory Default.
- Reset EDID to Factory Default.
- Import or Export Config file.

The TOP SECTION of the USB GUI for Windows PC:



The right boxed area will provide you with the following information:

FW: 2.34.2.35 on the top right corner indicates the current FW version of your Integral 2 unit.

GUI: 2.32 on the top right corner indicate the current Windows GUI version in use.

Source Info: When available it will display information about the source device in use.

RX0: Display Input signal resolution at RX0 input; refresh rate, color, bandwidth and HDCP information.

AUD0: Display sound information for the RX0 input.

RX1: Display Input signal resolution at RX1 input; refresh rate, color, bandwidth and HDCP information.

AUD1: Display sound information for the RX1 input.

TX1: Display Status or Output signal resolution at TX1; refresh rate, color, bandwidth, HDCP and EDID

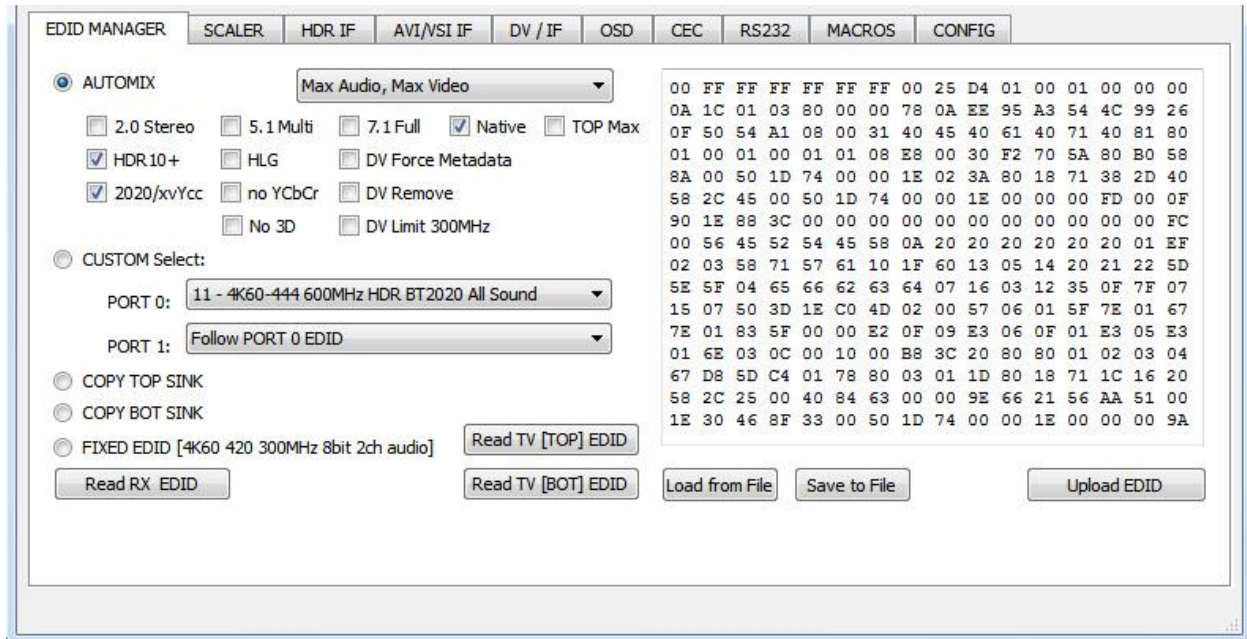
TX0: Display Status or Output signal resolution at TX0; refresh rate, color, bandwidth, HDCP and EDID

On the left, below the Integral 2 logo:

Active Input: Allow you to select the current active input port or enter both Matrix modes available.

Similarly to what you can do from the push button on the unit (see page 9)

The EDID MANAGER section of the USB GUI for Windows PC:



[Automix Mode]: Create EDID based on mutual capabilities so both sinks will always show a picture and audio. Some Flags can be checked or unchecked so you can force and override some parameters to match your needs. Ex: If your TV is stereo and your AVR full sound and both are connected to each Integral 2 outputs port, then by default, Automix will report Stereo as sound capabilities, by checking Full Audio flag you will force Automix to always report Full Audio no matter the real sound capabilities of the connected sink devices.

[Automix Algo]: Select the mixing algo of your choice, available algo are: Min Mixed Capabilities, Max Audio/Min Video, Top Output Priority, Bot Output Priority, Max Audio/Max Video (default)

[2.0 Stereo]: Force the created automix EDID to present stereo sound capabilities.

[5.1 Multi]: Force the created automix EDID to present 5.1 multi-channel sound capabilities.

[7.1 Full]: Force the created automix EDID to present Full 7.1 sound capabilities.

[Native]: Force the created automix EDID to present the setup native sound capabilities.

[TOP MAX]: Force the automix EDID to present the max audio capabilities from sink at top output.

[HDR 10+]: Force the automix EDID to present HDR10+ support.

[HLG]: Force the automix EDID to present the HLG support.

[2020/xvYCC]: Force the automix EDID to present BT2020 and xvYCC support.

[no YCbCr]: Force the automix EDID to present no support for YCbCr (useful to force RGB).

[no 3D]: Force the automix EDID to present no support for 3D.

[DV Force Metadata]: Force the automix EDID to present Dolby Vision support.

[DV Remove]: Force the automix EDID to present no support for Dolby Vision.

[DV Limit 300MHz]: Force the automix EDID to only present support for Dolby Vision at 300MHz.

[Custom Use / BT]: Pick and use EDID from a selection of preloaded EDID tables or load any EDID bank of your choice. By default the selected EDID table is a 4K60 4:4:4 600MHz with Full Audio capabilities. Leave the slide in this position to allow remote control via USB/IR or Android/iOS APP and/or to pick and

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use any from up to 100 different EDID tables available (4K60 4:4:4 HDR, 4K60 4:2:0 10bit, see p.13 for the full list). When you select an EDID bank from the dropdown list of preloaded EDID banks, there is nothing else to do, once you click one, the EDID of your choice will be loaded and HPD events will reset the signal to present your selected EDID automatically. Each input can have an individual EDID assigned.

[Copy TOP Sink]: Use EDID from TOP Sink

[Copy BOT Sink]: Use EDID from BOT Sink

[Fixed EDID with L/R Audio]: This mode is a 4K60 4:2:0 8b 300MHz stereo EDID table. It can be used as a security EDID to ensure a picture in every setup/situation. (Except for FHD and 4K30 Max display)

[Read RX EDID]: This option could be useful if for example you want to double check the build capabilities of an Automix EDID in your setup using external software such as AWEE (AW EDID Editor from Analog Way). In such case, you would simply use the **Read Integral 2 EDID** button and then the **Save to File** button in order to be able to open the EDID file with an external EDID editor software.

[Read TV [TOP] EDID]: Allow you to sniff the EDID from the sink device connected to the **TOP** output port of your Integral 2 unit. You could then use it as the Custom EDID by using the **Upload EDID to Integral 2** button or export it as a file using the **Save to File** button in order to be able to open the EDID file with an external EDID editor software.

[Read TV [BOT] EDID]: Allow you to sniff the EDID from the sink device connected to the **BOTTOM** output port of your Integral 2 unit. You could then use it as the Custom EDID by using the **Upload EDID to Integral 2** button or export it as a file using the **Save to File** button in order to be able to open the EDID file with an external EDID editor software.

[Load from File]: Allow you to open and load any EDID file of your choice. You could then use it as the Custom EDID by using the **Write EDID to Integral 2** button.

[Save to File]: Allow you to save the current EDID into a file for backup or for editing using external software such as AWEE (AW EDID Editor from Analog Way).

[Upload EDID]: This button will write the current manually uploaded EDID file into Integral 2 custom bank.

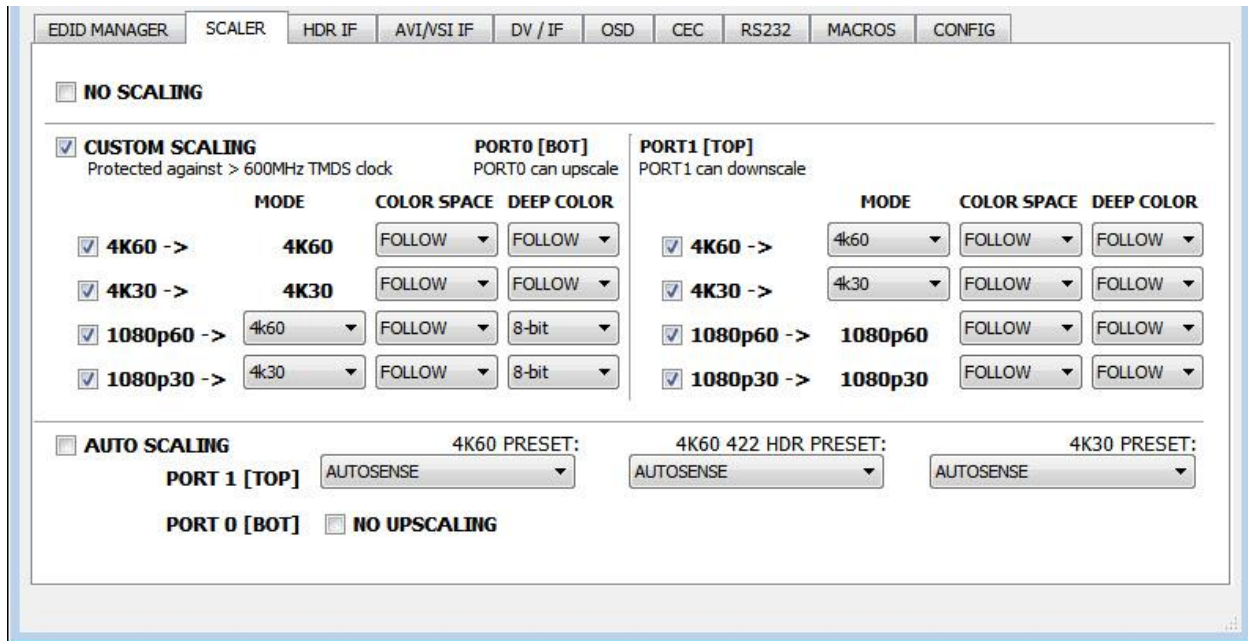
Note on HDCP:

Both inputs accept HDCP1.4/2.2. Both outputs can work with HDCP1.4/2.2 devices.

Note:

When you select an EDID bank from the dropdown list of preloaded EDID banks, there is nothing else to do, once clicked, the EDID of your choice will be loaded and HPD events will reset the signal to present your selected EDID automatically.

The SCALER section of the USB GUI for Windows PC:



[No Scaling]: Set your unit to **No Scaling** for the signal to pass-through untouched

[Custom Scaling]: Set your Integral 2 unit to **Custom Scaling** to manually define the scaling parameters. You can select between various type of resolutions, color space and deep color settings for both the upscale and downscale output ports.

Available Color Space options: Follow Input (default), RGB FULL, RGB BT2020, 4:4:4 BT.709, 4:4:4 BT2020, 4:2:2 BT.709, 4:2:2 BT2020, 4:2:0 BT.709, 4:2:0 BT2020.

Available Deep Color options: Follow Input (default), 8-bit/24-bit, 10-bit/30-bit, 12-bit/36-bit, 16-bit/48-bit

[Auto Scaling]: Set your unit to **Auto Scaling** to use automatic pre-sets for TX1 [TOP output port]. By default unit will use auto-sense.

[4K60 PRESET]: This forces any 4k60 input to come out as 4k60 420 8bit 300MHz or 1080p60 444 8/10/12-bit. A neat profile for people who only have a 300MHz display with 4K60 420 8-bit support. If EDID allows the player to send HDMI 2.0 formats, such as all HDR modes, they will be accepted by the display due to Integral 2 scaling/chroma changes.

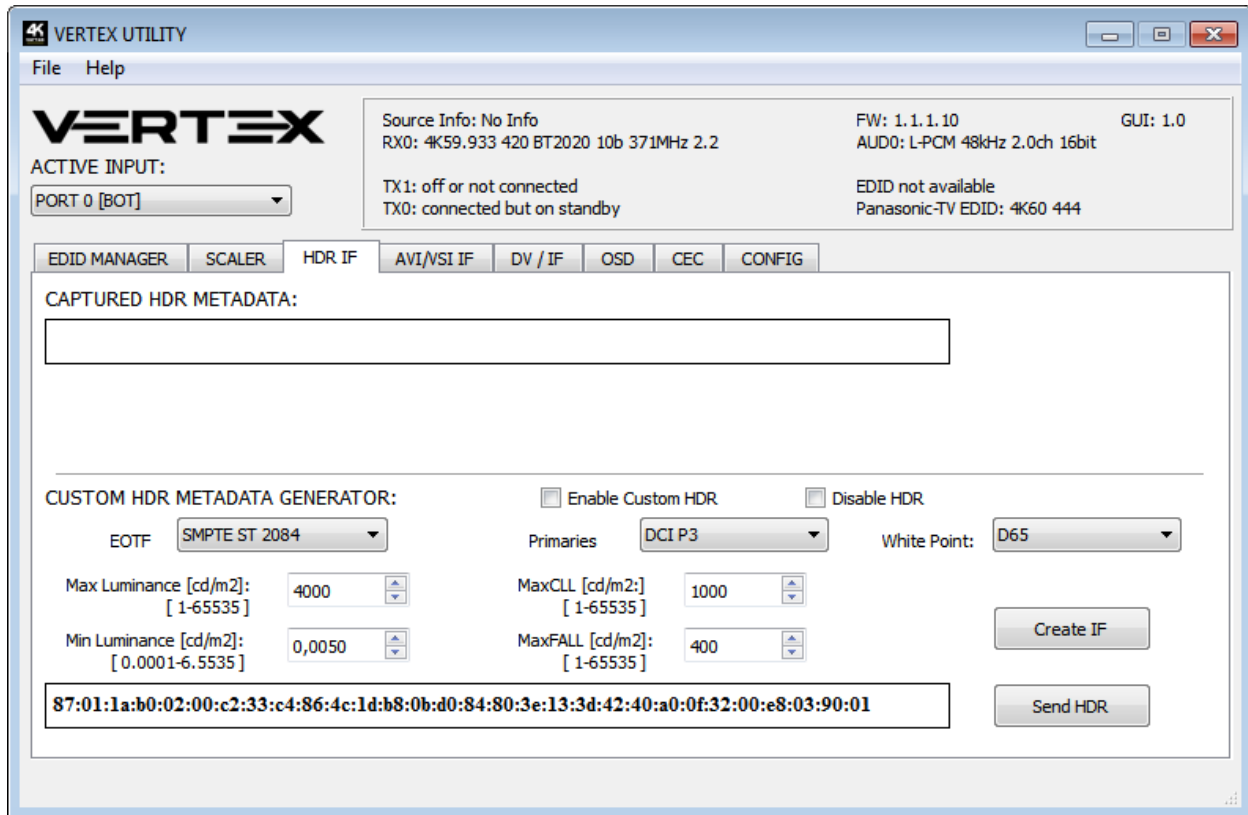
[4K60 422 HDR PRESET]: This forces 4K60 420 HDR input to come out as 4K60 420 10-bit, 4k60 420 8-bit 300MHz or 1080p60 444 8/10/12-bit. A neat profile for people who only have a 300MHz display with 4K60 420 8-bit support. If EDID allows the player to send HDMI 2.0 formats, such as all HDR modes, they will be accepted by the display due to Integral 2 scaling/chroma changes.

[4K30 PRESET]: This forces any 4k24/25/30 to come out as 4k24/25/30 444 8-bit 300MHz, 1080p30 444 8/10/12-bit or 4k24/25/30 422 12-bit 300MHz. A neat profile if you have a 300MHz display. If EDID

allows the player to send HDMI 2.0 formats, such as all HDR modes, they will be accepted by the display due to Integral 2 scaling/chroma changes.

[NO UPSCALING]: By default when using Auto Scaling, Integral 2 will upscale TX0 [BOT output port] when possible, to disable this behavior or to let the sink/display performs the upscaling, you can check this option.

The HDR INFOFRAME section of the USB GUI for Windows PC:



[CAPTURED HDR METADATA]: If the source at input is sending HDR InfoFrame metadata then the information is captured, extracted and displayed in this text box on GUI. HDR metadata is also deciphered and displayed in human readable format on both the Windows GUI and OSD.

[CUSTOM HDR METADATA GENERATOR]: This GUI section will allow you to create your own custom HDR metadata and inject it on the current signal by adding it or replacing the existing HDR metadata.

[ENABLE CUSTOM HDR]: Unchecked by default, once activated it will turn ON the HDR mode of any HDR display. Upon clicking **ENABLE CUSTOM HDR** the **CUSTOM HDR IF** that is defined by dropdown and input field and then created and displayed in the text box gets sent. This way you can define what the InfoFrame actually is. This is stored also in Integral 2 and is persistent over hotplugs and power cycles.

[Disable HDR]: Once activated this option will allow Linker to intercept and cancel all incoming HDR metadata. This mode was introduced to allow JVC PJ owners to apply their own Gamma curves for HDR content and allow their PJ DI to work when content is HDR.

[EOTF]: Select between **SDR Luminance Range**, **HDR Luminance Range**, **HLG ITU-R BT.2100-0** or **SMPTE ST 2084** values to be used in the custom HDR metadata creation.

[Primaries]: Select between **DCI P3**, **ITU-R BT 709-5** or **ITU-R BT2020-2** values to be used in the custom HDR metadata creation.

[White Point]: Select the white point value to be used in the custom HDR metadata creation.

[Max Luminance]: Select the Max Luminance value to be used in the custom HDR metadata creation (valid from 1 to 65535)

[MaxCLL]: Select the MaxCLL value to be used in the custom HDR metadata creation (valid from 1 to 65535)

[Min Luminance]: Select the Min Luminance value to be used in the custom HDR metadata creation (valid from 1 to 65535)

[MaxFALL]: Select the MaxFALL value to be used in the custom HDR metadata creation (valid from 1 to 65535)

[Create IF]: Use the previous defined values to create the Custom HDR metadata.

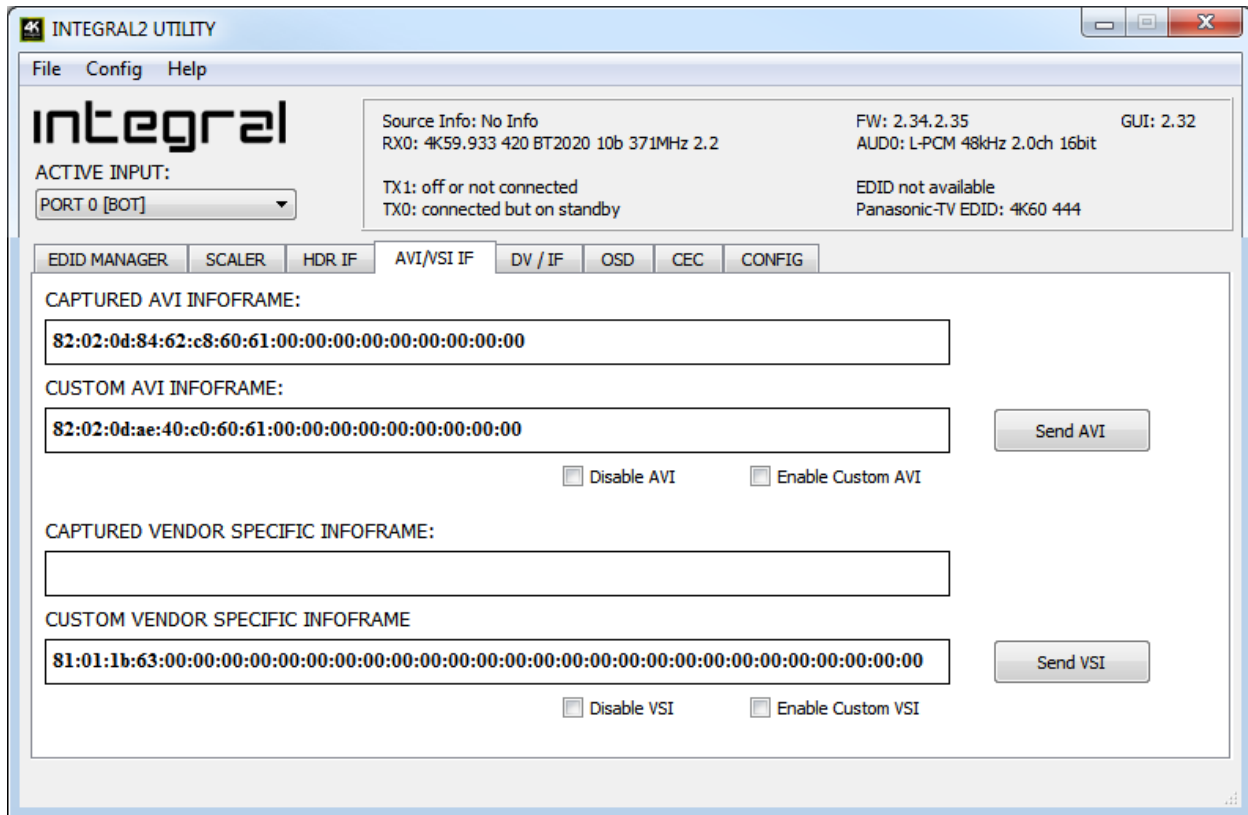
[Send HDR]: Send the custom created HDR metadata. Please note that upon clicking, **Enable Custom HDR** will get activated automatically, to stop the sending of the custom HDR metadata, uncheck **Enable Custom HDR**. If **Enable Custom HDR** is activated then by pressing the **Send HDR** button, the metadata injection does not stop, it just changes values, useful to avoid TV resync.

Note: There are two ways to reset the strings. Either hold the RESET button 10 seconds on Integral 2 or go to the GUI "config" page and apply reset. After GUI reset close and reopen GUI. Then the fields are populated with reset values.

Public API/DLL: We have created a set of DLL/API package for Integral 2 so anyone can interface their Windows software with Integral 2 capabilities and build evaluation, testing, measurement, calibration and content creation workflows system.

IR/RS232: Integral 2 can be fully controlled via IR or from any serial based computer such as Win, Max or Linux using RS232 interface. Complete list of IR and RS232 commands are included as a text file for convenience on all Firmware updater and GUI utility package.

The AVI/VSI IF section of the USB GUI for Windows PC:



[CAPTURED AVI INFOFRAME]: If the source is sending AVI infoFrame then the information is captured, extracted and displayed in this text box on GUI.

[CUSTOM AVI INFOFRAME]: Enter the AVI Infoframe of your choice in this text field in HEX format. If you are not sure about how to format your AVI Infoframe, we recommend you to visit our [Infoframe Injection thread](#) in our support forum. (Advanced Users only)

[Send AVI]: Replaces the current incoming AVI with the custom defined one in the text box. This way customer can for example activate BT2020 mode in the TV even though content doesn't sent the correct InfoFrame. This string is also saved in Integral 2 and is persistent over hotplugs and power cycles. The AVI mod is really meant for advanced users only because incorrect values can blank the screen and since the settings are saved even power up won't help until reset. Please note that upon clicking, **Enable Custom AVI** will get activated automatically, to stop the sending of the custom AVI infoframe, uncheck **Enable Custom AVI**. If **Enable Custom AVI** is activated then by pressing the **Send AVI** button, the infoframe injection does not stop, it just changes values, useful to avoid TV resync.

[Disable AVI]: When checked, Disable AVI will prevent AVI InfoFrame from source to reach the connected sink at Integral 2 output and also stop sending Custom AVI if set previously. This feature can be useful for some DVI display or some monitor that do not work well when receiving an AVI InfoFrame.

[Enable Custom AVI]: Upon clicking **Enable Custom AVI**, the IF that is defined in the Custom AVI text box gets used. This way you can define what the InfoFrame actually is. This is stored also in Integral 2 and is

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persistent over hotplugs and power cycles. This way customer can for example activate BT2020 mode in the TV even though content doesn't sent the correct InfoFrame. The AVI mod is really meant for advanced users only because incorrect values can blank the screen and since the settings are saved even power up won't help until reset.

[CAPTURED VENDOR SPECIFIC INFOFRAME]: If the source is sending Vendor Specific Infoframe then the information is captured, extracted and displayed in this text box on GUI.

[CUSTOM VENDOR SPECIFIC INFOFRAME]: Enter the Vendor Specific Infoframe of your choice in this text field in HEX format. If you are not sure about how to format your AVI Infoframe, we recommend you to visit our [Infoframe Injection thread](#) in our support forum. (Advanced Users only)

[Send VSI]: Replaces the current incoming VSI with the custom defined one in the text box. This string is also saved in Integral 2 and is persistent over hotplugs and power cycles. Please note that upon clicking, **Enable Custom VSI** will get activated automatically, to stop the sending of the custom VSI infoframe, uncheck **Enable Custom VSI**. If **Enable Custom VSI** is activated then by pressing the **Send VSI** button, the infoframe injection does not stop, it just changes values.

[Disable VSI]: When checked, Disable VSI will prevent DSI InfoFrame from source to reach the connected sink at Integral 2 output and also stop sending Custom VSI if set previously.

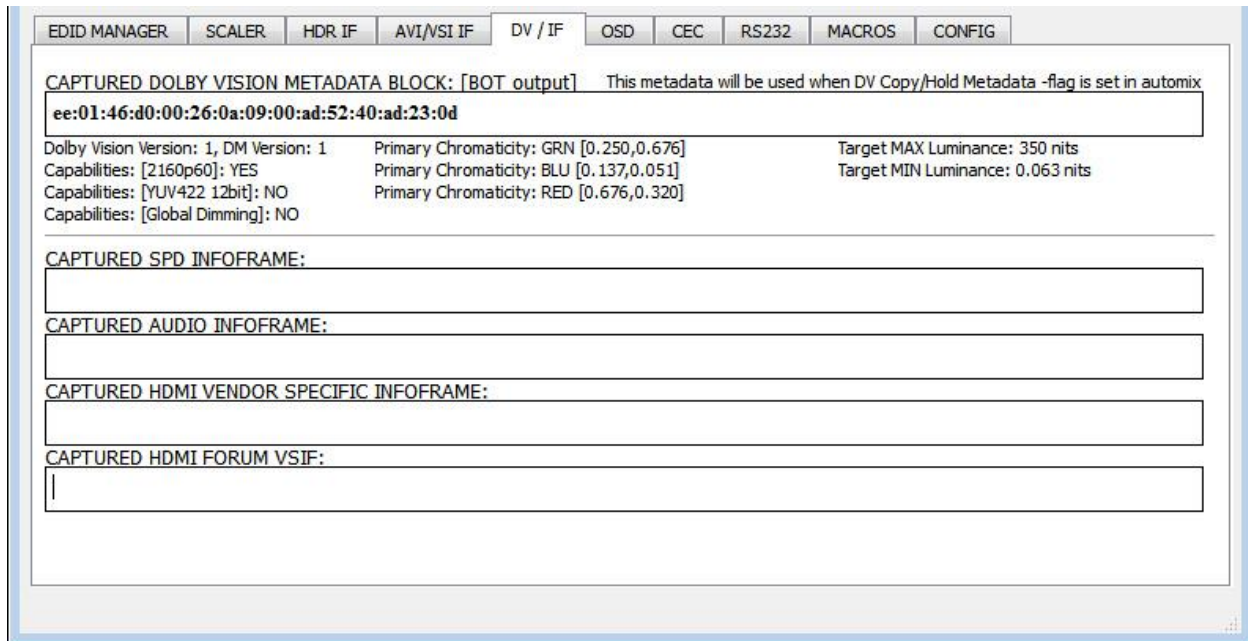
[Enable Custom VSI]: Upon clicking **Enable Custom VSI**, the IF that is defined in the Custom VSI text box gets used. This way you can define what the InfoFrame actually is. This is stored also in Integral 2 and is persistent over hotplugs and power cycles.

Note: There are two ways to reset the strings. Either hold the RESET button 10 seconds on Integral 2 or go to the GUI "config" page and apply reset. After GUI reset close and reopen GUI. Then the fields are populated with reset values.

Public API/DLL: We have created a set of DLL/API package for Integral 2 so anyone can interface their Windows software with Integral 2 capabilities and build evaluation, testing, measurement, calibration and content creation workflows system.

IR/RS232: Integral 2 can be fully controlled via IR or from any serial based computer such as Win, Max or Linux using RS232 interface. Complete list of IR and RS232 commands are included as a text file for convenience on all Firmware updater and GUI utility package.

The DV/IF section of the USB GUI for Windows PC:



[CAPTURED DOLBY VISION METADATA BLOCK]: Integral 2 will automatically sniff, display and save any Dolby Vision mandatory string from a connected sink at BOT output. Once stored, this mandatory string can be used in Automix to ensure that the DV stream from the source is compatible with the sink. Once the DV string of a display is saved, you can insert other equipment like an AVR in between in the chain and still have the right DV signal passthru to the sink. Additionally, the stream is fully deciphered in human readable format.

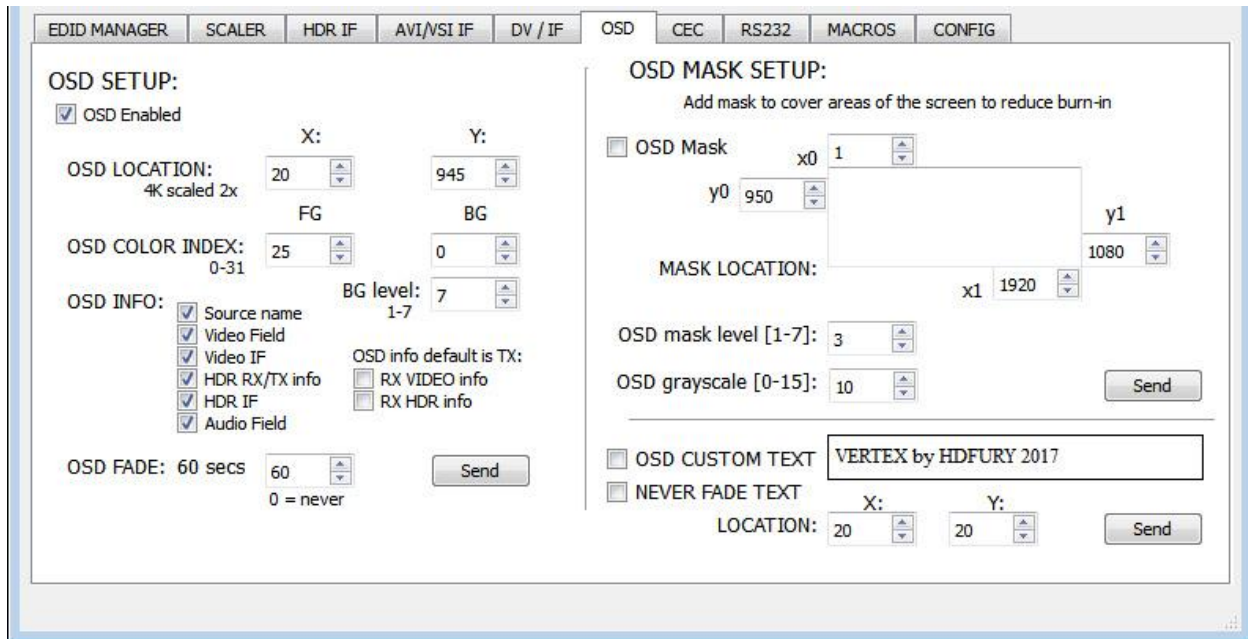
[CAPTURED SPD INFOFRAME]: Display Source Product InfoFrame.

[CAPTURED AUDIO INFOFRAME]: Current Audio Format information, if PCM this usually gives the sample rate and number of speakers, if bitstream then usually this infoframe just inform the default which is “refer stream header”

[CAPTURED HDMI VENDOR SPECIFIC INFOFRAME]: Display HDMI Vendor Specific InfoFrame.

[CAPTURED HDMI FORUM VSIF]: Display HDMI2.0 version of HDMI VSIF

The OSD section of the USB GUI for Windows PC:



[OSD Enabled]: Enable or Disable the OSD feature of Integral 2.

[OSD LOCATION X, Y]: Set the X and Y value of the OSD location at 1080p, values are multiplied by 2 when the stream is 4K

[OSD COLOR INDEX FG, BG, BG level]: Set the Text Color, Background Color and Background transparency for the OSD.

[OSD INFO]: Select or unselect the information that must be displayed on your Integral 2 OSD. Available options are: Source name, Video Field, Video IF, HDR TX/TX info, HDR IF, Audio field, RX Video info, RX HDR info.

[OSD FADE]: Set the timer before OSD fade out, 0 = never.

[SEND]: For any changes in the above parameters, click SEND to upload them to your Integral 2 unit.

[OSD Mask]: Enable or Disable the use of OSD Mask.

[MASK LOCATION x0,y0,x1,y1]: Defines the coordinates of the top left and bottom right corner of your OSD Mask at 1080p. Values are multiplied by 2 when the stream is 4K

[OSD Mask level]: Select the level of transparency for your OSD Mask. Value range is from 1 to 7.

[OSD grayscale]: Select the level of grayscale for your OSD Mask. Value range is from 0 to 15.

[SEND]: For any changes in the above parameters, click SEND to upload them to your Integral 2 unit.

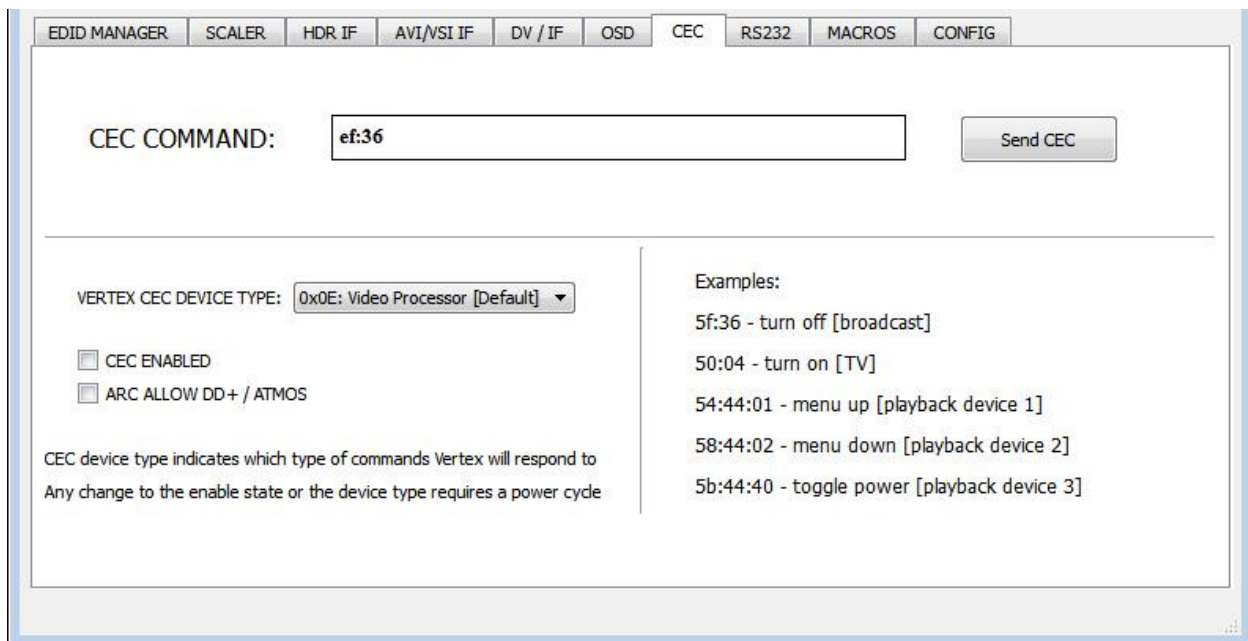
[OSD CUSTOM TEXT]: Enable or disable the OSD Custom Text, once activated, the custom text defined in the text field will be displayed on screen.

[NEVER FADE TEXT]: If you want to keep the OSD Custom text even after OSD info faded away, make sure this option is enabled.

[LOCATION X,Y]: Set the X and Y value of the OSD Custom Text at 1080p, values are multiplied by 2 when the stream is 4K

[SEND]: For any changes in the above parameters, click SEND to upload them to your Integral 2 unit.

The CEC COMMANDER section of the USB GUI for Windows PC:



[CEC COMMAND]: Enter the CEC command of your choice in this text field in HEX format. If you are not sure about how to format your command, we recommend you to visit the very well done [cec-o-matic](#) website made by [Kwikwai](#).

[SEND CEC]: By clicking this option, the CEC command you entered in the **CEC COMMAND** text field will be sent out by the Integral 2 unit.

[INTEGRAL 2 CEC DEVICE TYPE]: Video Processor by default (ID#5)

CEC ENABLED must be ON in order to apply the selected dropdown options to the Integral 2 unit.

Video Processor (Default) is the device type to choose if you have an AVR in your setup and if you want to use that AVR for ARC or CEC.

Audio System w/ARC is the device type to choose if you want Integral 2 ARC feature to be ON (Sound from TV ARC to Integral 2 5.1 Optical Out or Jack Analog Stereo output. You can also use this method if you want Integral 2 to replace your AVR as CEC Commander.

[CEC ENABLED]: Unchecked by default, once activated it allows Integral 2 to answer and process CEC requests and commands and appear on the CEC network map. Uncheck it if you do not want Integral 2 to answer external CEC requests or process Internal CEC commands. Unchecking will remove Integral 2 from the Root network map but CEC commands for connected sinks or sources will still pass-thru.

[ARC ALLOW DD+/ATMOS]: If your AVR is capable of accepting 192khz Audio via its optical input, you can use Integral 2 to extract DD+ and Atmos for TV embedded streaming APPS and forward it to your AVR via the Integral 2 optical output. Only a very few AVR on the market can support 192khz via optical.

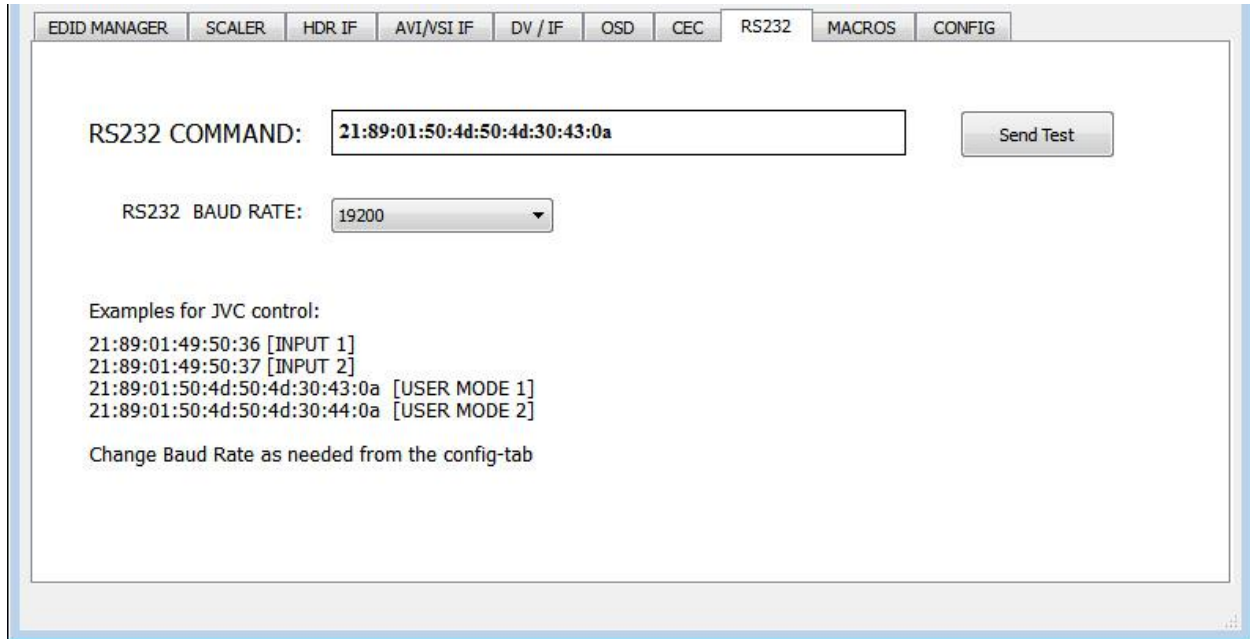
Note: CEC/ARC master is BOT OUTPUT, if you want ARC from the TV; you need to connect your TV ARC capable input to Integral 2 BOT OUTPUT and set the unit as Audio System w/ARC under Integral 2 CEC device type.

A few examples for testing CEC commands are provided on the GUI.

Using the Android or iOS APP, it is possible to create custom menu for CEC commands.

Feel free to join our support server of the forums in order to know more about it.

The RS232 section of the USB GUI for Windows PC:



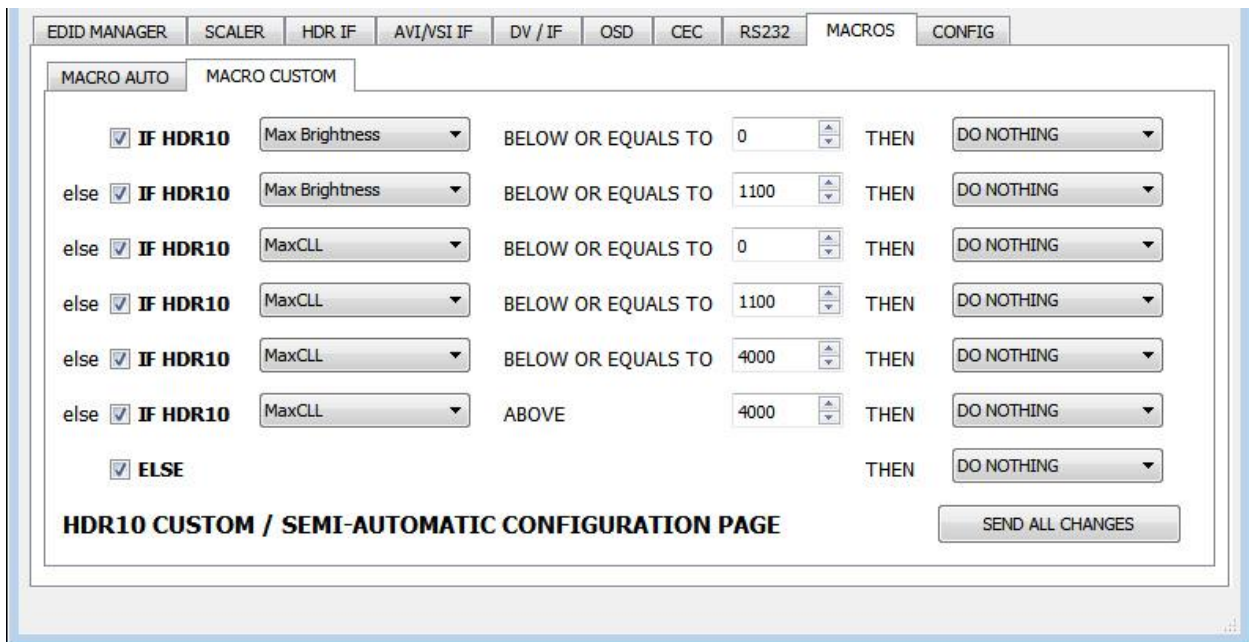
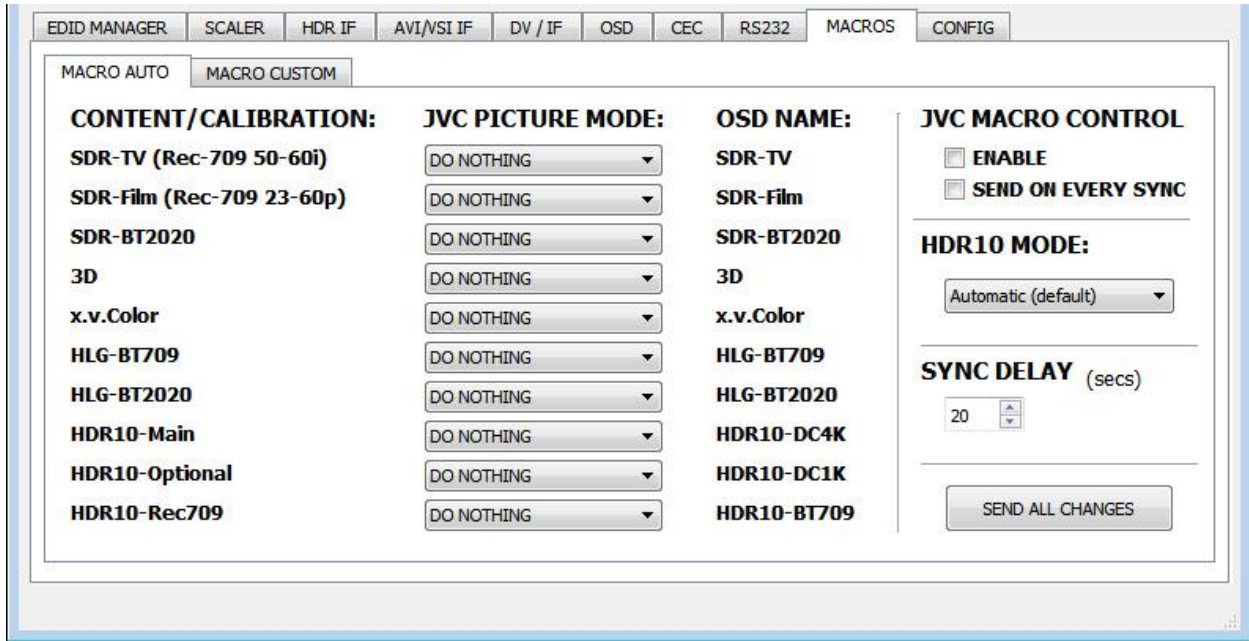
[RS232 COMMAND]: Allow you to test RS232 command to make sure your unit is properly configured and ready to communicate via RS232.

[Send Test]: Once RS232 command have been entered, use this button to send it out.

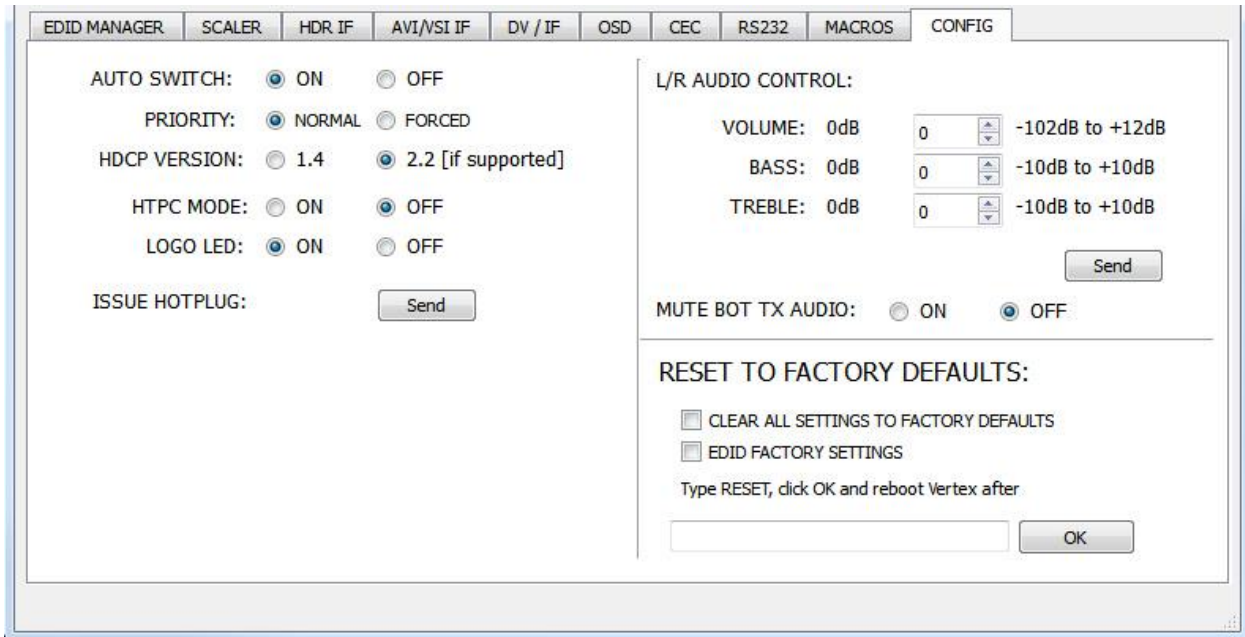
[RS232 BAUD RATE]: Set the RS232 link speed (default 19200)

The MACROS section of the USB GUI for Windows PC:

With the help of power users from the community, special automatic and custom macro has been developed for JVC Projectors. Kindly please refer to instructions posted [here](#).



The CONFIG section of the USB GUI for Windows PC:



[AUTO SWITCH]: When activated, the Auto Switch feature will force the Integral 2 unit to automatically switch to the active signal if the selected signal is lost.

[PRIORITY]: When in **FORCED** input priority mode, as soon as a new active input is detected, Integral 2 will switch to it.

[HDCP VERSION]: Allow you to select/force the HDCP revision of the Output Ports. Similarly to what you can do from the push button on the unit (see page 10)

[HTPC MODE]: Useful if you have trouble with windows display and icons when resuming from stand-by mode.

[LOGO LED]: Enable by default, **GREEN** Integral 2 side logo can be turned ON/OFF at will. Some users might found Integral 2 side logo visually disturbing in their HT setup. You have the possibility to turn them off.

[ISSUE HOTPLUG]: Click Send button to perform a soft-reset in your setup.

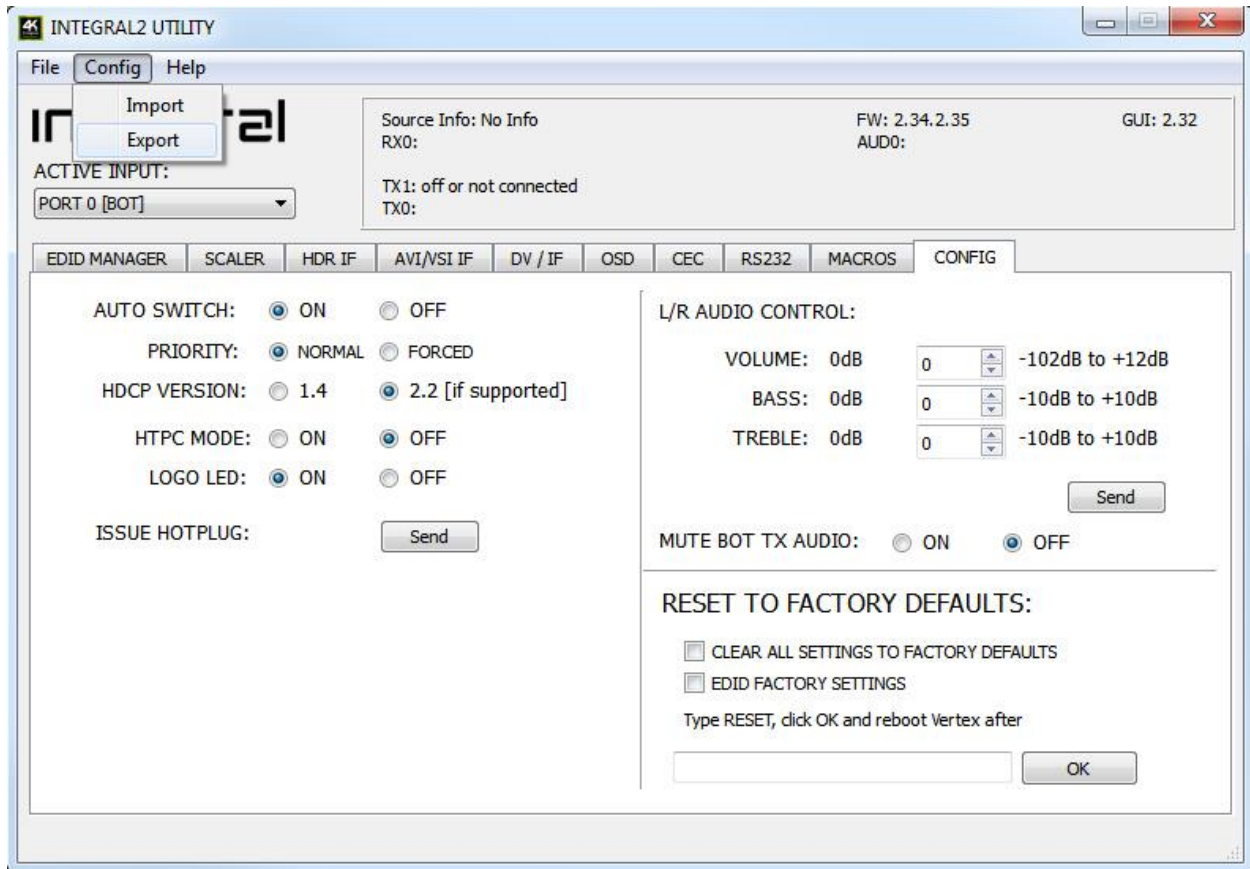
[L/R AUDIO CONTROL]: This option adjust the Analog Stereo output. Volume, Bass and Treble control are available.

[MUTE BOT TX AUDIO]: If you use an AVR at TOP output, you might want to disable sound going to equipment connected at BOT output. Here you can mute the BOT output sound.

[CLEAR ALL SETTINGS TO FACTORY DEFAULTS]: Similar as **[LP] Long Press** on the **RESET** button (see page 7). Click the available check box to clear all settings to factory defaults and type **RESET** in the test field. Finally click the **OK** button and unit will be reset to factory defaults. Integral 2 power cycle needed.

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

[EDID FACTORY RESET]: Click the available check box to clear all EDID settings to factory defaults and type **RESET** in the test field. Finally click the **OK** button and unit EDID will be reset to factory defaults.

CONFIG Import/Export section of the USB GUI for Windows PC:

By using the **[CONFIG] > [EXPORT]** option, you will be able to save the current Integral 2 configuration and settings in a text file.

The file can then be shared with others, for support reason or simply to be loaded back after a newer firmware update by using **[CONFIG] > [IMPORT]** option.

Exported config file will present the active signal information, the EDID set for each RX and TX as well as the list of parameters that can be edited in the text file directly before importing the file back.

```
#####
# HDFURY INTEGRAL 2 CONFIGURATION FILE
# [26.9.2018 16:19:25]
#####
# STATUS INFO START - DO NOT MODIFY VALUES
#####
FW: 2.34.2.35, GUI: 2.32, PCB 2
RX0: 4K59.933 422 BT2020 12b 593MHz 2.2
AUD0: L-PCM 48kHz 2.0ch 24bit
TX0: 4K59.933 422 BT2020 12b 593MHz 2.2
TX1: 1080P59.933 444 BT709 8b 148MHz 1.4
SONY TV *00 EDID: 4K60 444 HDR BT2020
DENON-AVRHD EDID: 4K24 444
Source Info: No Info
```

```
AVI: 82:02:0d:94:32:e8:60:61:00:00:00:00:00:00:00:00:00:00:00:00
AUDIO: 84:01:0a:70:01:00:00:00:00:00:00:00:00:00:00:00:00:00:00
```

#RX0 EDID

```
00 FF FF FF FF FF FF 00 4D D9 04 7A 01 01 01 01
01 1C 01 03 80 90 51 78 0A 0D C9 A0 57 47 98 27
12 48 4C 21 08 00 81 80 A9 C0 71 4F B3 00 01 01
01 01 01 01 01 01 08 E8 00 30 F2 70 5A 80 B0 58
8A 00 9F 29 53 00 00 1E 02 3A 80 18 71 38 2D 40
58 2C 45 00 9F 29 53 00 00 1E 00 00 00 FC 00 53
4F 4E 59 20 54 56 20 20 2A 30 30 0A 00 00 00 FD
00 17 3E 0E 88 3C 00 0A 20 20 20 20 20 20 01 EE
02 03 74 F0 5E 61 60 5D 5E 5F 62 1F 10 14 05 13
04 20 22 3C 3E 12 16 03 07 11 15 02 06 01 65 66
23 1D 26 38 0D 7F 07 15 07 50 3D 1F C0 57 06 00
0F 7F 07 5F 7E 01 67 7E 00 4D 02 00 83 5F 00 00
6E 03 0C 00 31 00 B8 3C 2F 00 80 01 02 03 04 67
D8 5D C4 01 78 80 01 E3 05 C3 01 E2 00 CB E5 0F
03 00 00 06 E3 06 07 01 EB 01 46 D0 00 45 03 80
86 60 76 8F 00 00 00 00 00 00 00 00 00 00 65
```

#RX1 EDID

```
00 FF FF FF FF FF FF 00 4D D9 04 7A 01 01 01 01
01 1C 01 03 80 90 51 78 0A 0D C9 A0 57 47 98 27
12 48 4C 21 08 00 81 80 A9 C0 71 4F B3 00 01 01
01 01 01 01 01 01 08 E8 00 30 F2 70 5A 80 B0 58
8A 00 9F 29 53 00 00 1E 02 3A 80 18 71 38 2D 40
58 2C 45 00 9F 29 53 00 00 1E 00 00 00 FC 00 53
4F 4E 59 20 54 56 20 20 2A 30 30 0A 00 00 00 FD
00 17 3E 0E 88 3C 00 0A 20 20 20 20 20 20 01 EE
02 03 74 F0 5E 61 60 5D 5E 5F 62 1F 10 14 05 13
04 20 22 3C 3E 12 16 03 07 11 15 02 06 01 65 66
23 1D 26 38 0D 7F 07 15 07 50 3D 1F C0 57 06 00
0F 7F 07 5F 7E 01 67 7E 00 4D 02 00 83 5F 00 00
6E 03 0C 00 32 00 B8 3C 2F 00 80 01 02 03 04 67
D8 5D C4 01 78 80 01 E3 05 C3 01 E2 00 CB E5 0F
03 00 00 06 E3 06 07 01 EB 01 46 D0 00 45 03 80
86 60 76 8F 00 00 00 00 00 00 00 00 00 00 64
```

#TX0 EDID

```
00 FF FF FF FF FF FF 00 4D D9 04 7A 01 01 01 01
01 1C 01 03 80 90 51 78 0A 0D C9 A0 57 47 98 27
12 48 4C 21 08 00 81 80 A9 C0 71 4F B3 00 01 01
01 01 01 01 01 01 08 E8 00 30 F2 70 5A 80 B0 58
8A 00 9F 29 53 00 00 1E 02 3A 80 18 71 38 2D 40
58 2C 45 00 9F 29 53 00 00 1E 00 00 00 FC 00 53
4F 4E 59 20 54 56 20 20 2A 30 30 0A 00 00 00 FD
00 17 3E 0E 88 3C 00 0A 20 20 20 20 20 20 01 EE
02 03 65 F0 5B 61 60 5D 5E 5F 62 1F 10 14 05 13
04 20 22 3C 3E 12 16 03 07 11 15 02 06 01 65 66
2C 0D 7F 07 15 07 50 3D 07 BC 57 06 00 83 0F 00
00 6E 03 0C 00 30 00 B8 3C 2F 00 80 01 02 03 04
67 D8 5D C4 01 78 80 01 EB 01 46 D0 00 45 03 80
86 60 76 8F E2 00 CB E3 05 FF 01 E5 0F 03 00 00
06 E3 06 0D 01 01 1D 00 72 51 D0 1E 20 6E 28 55
00 9F 29 53 00 00 1E 00 00 00 00 00 00 00 A8
```

```

#TX1 EDID
00 FF FF FF FF FF FF 00 11 EE 2A 00 01 01 01 01
00 16 01 03 80 90 51 78 0A 0D C9 A0 57 47 98 27
12 48 4C 21 08 00 81 80 A9 C0 71 4F B3 00 01 01
01 01 01 01 01 01 02 3A 80 18 71 38 2D 40 58 2C
45 00 9F 29 53 00 00 1E 01 1D 00 72 51 D0 1E 20
6E 28 55 00 9F 29 53 00 00 1E 00 00 00 FC 00 44
45 4E 4F 4E 2D 41 56 52 48 44 0A 20 00 00 00 FD
00 30 3E 0E 46 0F 00 0A 20 20 20 20 20 20 01 81
02 03 54 F0 5F 5D 5E 5F 62 1F 10 14 05 13 04 20
22 3C 3E 12 16 03 07 11 15 02 06 01 0E 23 0F 24
1D 25 1E 26 35 0F 7F 07 3D 1E C0 15 07 50 5F 7E
01 57 06 00 67 7E 00 4D 02 00 83 5F 00 00 6E 03
0C 00 41 00 B8 3C 2F 00 80 01 02 03 04 E3 05 1F
01 E2 00 F9 01 1D 80 18 71 1C 16 20 58 2C 25 00
9F 29 53 00 00 9E 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 AB

#STATUS END
#
#####
#
#SETTINGS START - MODIFY VALUES PERMITTED
#
#####
InputPort bot
AutoSw off
AutoSwPrio normal
BaudRate 19200
EncLevel 22
ScaleSlidePosition autoscale
ScaleCustomModeSel none
EdidSlidePosition automix
EdidCustomModeSel custom
EdidCustomTableTop 0
EdidCustomTableBot 4
EdidAlgo 4
EdidAudio native
EdidHdr hdr
EdidBt2020 on
EdidYuvRemove off
Edid3dRemove off
EdidDvCopyMetadata off
EdidDvRemove off
EdidDvLimit300 off
HdrCustom off
HdrDisable off
AviCustom off
AviDisable off
VsiCustom off
VsiDisable off
AutoPreset4k30 PRESET_1080P30_444_8_10_12
AutoPreset4k60Hdr PRESET_1080P60_444_8_
AutoPreset4k60 PRESET_1080P60_444_8_
ScalePort0_4k60En on
ScalePort0_4k60Cs HDMIDRV_CS_Follow
ScalePort0_4k60Dc HDMIDRV_DEEPCOLOR_Follow

```

```

ScalePort0_4k30En on
ScalePort0_4k30Cs HDMI DRV_CS_Follow
ScalePort0_4k30Dc HDMI DRV_DEEPCOLOR_Follow
ScalePort0_1080p60En on
ScalePort0_1080p60Mode HDMI DRV_SCALE_ON
ScalePort0_1080p60Cs HDMI DRV_CS_Follow
ScalePort0_1080p60Dc HDMI DRV_DEEPCOLOR_OFF
ScalePort0_1080p30En on
ScalePort0_1080p30Mode HDMI DRV_SCALE_ON
ScalePort0_1080p30Cs HDMI DRV_CS_Follow
ScalePort0_1080p30Dc HDMI DRV_DEEPCOLOR_OFF
ScalePort1_4k60En on
ScalePort1_4k60Mode HDMI DRV_SCALE_OFF
ScalePort1_4k60Cs HDMI DRV_CS_Follow
ScalePort1_4k60Dc HDMI DRV_DEEPCOLOR_Follow
ScalePort1_4k30En on
ScalePort1_4k30Mode HDMI DRV_SCALE_OFF
ScalePort1_4k30Cs HDMI DRV_CS_Follow
ScalePort1_4k30Dc HDMI DRV_DEEPCOLOR_Follow
ScalePort1_1080p60En on
ScalePort1_1080p60Cs HDMI DRV_CS_Follow
ScalePort1_1080p60Dc HDMI DRV_DEEPCOLOR_Follow
ScalePort1_1080p30En on
ScalePort1_1080p30Cs HDMI DRV_CS_Follow
ScalePort1_1080p30Dc HDMI DRV_DEEPCOLOR_Follow
HtpcMode off
LogoLed off
OsdMaskX0 1
OsdMaskY0 950
OsdMaskX1 1920
OsdMaskY1 1080
OsdMaskRate 3
OsdMaskGs 10
OsdMask off
OsdLocX 20
OsdLocY 945
OsdFadeValue 60
OsdColorFg 25
OsdColorBg 0
OsdColorBgRate 7
OsdField1 on
OsdField2 on
OsdField3 off
OsdField4 on
OsdField5 off
OsdField6 on
OsdField7 off
OsdField8 off
Osd on
OsdCustTextLocX 20
OsdCustTextLocY 20
OsdCustTextNeverFade off
OsdCustTextEnable off
JvcMacroEnable 0
JvcMacro1 0
JvcMacro2 127
JvcMacro3 0

```

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

```

JvcMacro45 0
JvcMacro6 0
JvcMacro7 0
JvcMacro89 1100
JvcMacro10 0
JvcMacro11 2
JvcMacro1213 0
JvcMacro14 0
JvcMacro15 2
JvcMacro1617 1100
JvcMacro18 0
JvcMacro19 2
JvcMacro2021 4000
JvcMacro22 0
JvcMacro23 2
JvcMacro2425 4000
JvcMacro26 0
JvcMacro27 0
JvcMacro28 20
JvcMacro29 0
JvcMacro30 0
JvcMacro31 0
JvcMacro32 0
JvcMacro33 0
JvcMacro34 0
JvcMacro35 0
JvcMacro36 0
JvcMacro37 0
JvcMacro38 0
Cec off
CecLa video
CecArcHbr off
CustomHdrText
87:01:1a:b0:02:00:c2:33:c4:86:4c:1d:b8:0b:d0:84:80:3e:13:3d:42:40:a0:0f:32:00
:e8:03:90:01
CustomAviText 82:02:0d:ae:40:c0:60:61:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00
CustomVsiText
81:01:1b:63:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00
:00:00:00:00:00
CustomCecText ef:36
DolbyVision eb:01:46:d0:00:45:03:80:86:60:76:8f

#SETTINGS END
#
#####

```

RS232 Control

INTEGRAL 2 RS232 COMMAND LIST FOR V1.13 MCU / 010918:

Integral 2 RS232 jack expects the following plug signals:

TIP = TX [sends data out from Integral 2]

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

RING = RX [receives data to Integral 2]
SLEEVE = GND

Parameters: 19200, n, 1, no handshake

Every command must start with # character and must end with a carriage return \r or a newline \n
Use only lowercase characters

Example commands:

```
#get edidmode
#get hrdcustom
#set edidmode automix
#set hdrstr 87:01:1a:b0:02:00:c2:33:c4:86:4c:1d:b8:0b:d0:84:80:3e:13:3d:42:40:a0:0f:32:00:e8:03:90:01
#set hrdcustom on
#set avistr 82:02:0d:ae:40:c0:60:61:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00
#set avicustom on
#set vsistr
81:01:1b:63:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00
#set vsicustom on
#set cecstr 0f:36
```

Command list:

#get ver shows the current Integral 2 FW versions
#get status x shows the current status for the requested info
x can be rx0, rx1, tx0, tx1, tx0sink, tx1sink, aud0, aud1

#get audiochbot

#get audiochtop

Returns the audio mode LPCM / bitstream from the selected input

#set hotplug Issue hotplug event to the sources

#set input x / #get input

Change the input port. x can be top/bot/thru/swap

#set autosw x / #get autosw

Toggle the input port auto switching capability.
If on, the input port will change to an active input if the current input is switched off.
x can be on/off

#set autoswprio x / #get autoswprio

Toggle the input port auto switching priority.
If on, the input port will force change when a new source is connected.
x can be on/off

#set scale x / #get scale

Change the scaling mode if the scale-slide switch is in the middle position.x can be auto/custom/none

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

#get hdcpswitchpos

Returns the position of the HDCP slide switch

#set hdcp x / #get hdcp

change the output hdcp level if the hdcp-slide switch is in the middle position. x can be 14/22

#get edidswitchpos

Returns the position of the EDID slide switch

#set edidmode x / #get edidmode

change the output edid level if the edid-slide switch is in the middle position.
x can be automix/custom/fixed/copytop/copybot

#set edidtable x / #get edidtable

Selects the custom edidtable for port 0 (and port 1 if not separately selected). Range is 1-100

#set edidtabletop x / #get edidtabletop

Selects the custom edidtable for port 1. Select value of 0 to follow the Port 0 EDID. Range is 0-100

#set edidalgo x / #get edidalgo

Select the automix EDID mixing algorithm. Applicable only in the AUTOMIX EDID mode.

Algorithms:

0 = "Min Mixed Capabilities"

1 = "Max Audio, Min Video"

2 = "BOT Output Priority"

3 = "TOP Output Priority"

4 = "Max Audio, Max Video"

#set osd x / #get osd

Toggle on-screen-display activity. x can be on/off

#set osdfadevalue x / #get osdfadevalue

Set the duration in seconds how long the OSD will be visible when any video paramater change.
A value of 0 will never fade.

#set osdtext x / #get osdtext

Toggle the OSD custom text activity. x can be on/off

#set osdtextstr x / #get osdtextstr

Set the custom text string that will be visible on OSD. The text must be

Example: #set osdtextstr "HDFury Integral 2"

#set osdmask x / #get osdmask

Toggle the OSD masking region. x can be on/off

#set logoled x / #get logoled

Toggle the Integral 2 side logo led activity. x can be on/off

#set edidaudio x / #get edidaudio

Select AUTOMIX audio flag parameters. The setting will force audio capability advertised by the EDID.

x can be stereo/51/71/native/top

native is the current connected sink capabilities mixed with the current EDID algorithm

top is used for audio TOP port connected sink info and rest capabilities according to the EDID algorithm

#set edidbt2020 x / #get edidbt2020

Select AUTOMIX BT2020 flag parameter. When enabled, will force BT2020 capability to the source.

When not in force, will follow the sink capabilities.

x can be on/off

#set edidhdr10 x / #get edidhdr10

Select AUTOMIX HDR10 flag parameter. When enabled, will force HDR10 capability to the source.

When not in force, will follow the sink capabilities.

x can be on/off

#set edidhlg x / #get edidhlg

Select AUTOMIX HLG flag parameter. When enabled, will force HLG capability to the source.

When not in force, will follow the sink capabilities.

x can be on/off

#set ediddv x / #get ediddv

Select AUTOMIX DOLBY VISION flag parameter. When enabled, will force DV capability to the source.

When not in force, will follow the sink capabilities.

x can be on/off

#set edidyuvremove x / #get edidyuvremove

Select AUTOMIX YCbCr color space flag parameter. When enabled, will remove YCbCr 444/422 capability.

When not in force, will follow the sink capabilities.

x can be on/off

#set edid3dremove x / #get edid3dremove

Select AUTOMIX 3D flag parameter. When enabled, will remove 3D capability.

When not in force, will follow the sink capabilities.

x can be on/off

#set hdrstr x / #get hdrstr

Defines a custom HDR string that will be sent to the sink if "hdrcustom" is enabled.

x must be of the format where data bytes are separated by a : -character

example #set hdrstr 87:01:1a:b0:.....

#set hrdcustom x / #get hrdcustom

Toggles the sending of the custom HDR string. When enabled will disable the input HDR from traveling to

the output and replace with a defined custom string.

x can be on/off

#set hdrdisable x / #get hdrdisable

Toggles the sending of any HDR string. When enabled will disable all HDR info to the sink
x can be on/off

#set avistr x / #get avistr

Defines a custom AVI string that will be sent to the sink if "avicustom" is enabled.
x must be of the format where data bytes are separated by a : -character
example #set avistr 82:02:0d:ae:40:c0:60:61:.....

#set avicustom x / #get avicustom

Toggles the sending of the custom AVI string. When enabled will disable the input AVI from traveling to the output and replace with a defined custom string.
x can be on/off

#set avidisable x / #get avidisable

Toggles the sending of any AVI string. When enabled will disable all AVI info to the sink.
Be careful in using avidisable as most TVs will no longer show any signal.
x can be on/off

#set vsistr x / #get vsistr

Defines a custom Vendor Specific Infoframe [VSI] string that will be sent to the sink if "vsicustom" is enabled.
x must be of the format where data bytes are separated by a : -character
example #set vsistr 81:01:1b:63:00:00:00:0:.....

#set vsicustom x / #get vsicustom

Toggles the sending of the custom VSI string. When enabled will disable the input VSI from traveling to the output and replace with a defined custom string.
Sending a custom VSI will not disable the potential input HDMI Vendor Specific Infoframe and both will flow to the sink.
However, sometimes sending both will confuse the TV depending on the sink capabilities.
x can be on/off

#set vsidisable x / #get vsidisable

Toggles the sending of any VSI string. When enabled will disable all VSI info to the sink.
x can be on/off

#set cec x / #get cec

Toggles the CEC capability.
x can be on/off

#set cecla x / #get cecla

Switches the CEC Logical Address between Audio System and Video Processor.
In order to process ARC the CEC device must be setup as Audio System.
x can be audio/video

#set cecstr x

Transmits a CEC string to the network if CEC is enabled.

x must be of the format where data bytes are separated by a : -character

example to turn off devices, #set cecstr 0f:36

#set jvcmacro / #get jvcmacro

Toggle the JVC macro functionality. x can be on/off

#set jvcmacromode x / #get jvcmacromode

Select the active JVC macro mode. Applicable only when jvcmacro enabled.

Algorithms: [x]

0 = "Automatic"

1 = "Ignore Metadata"

2 = "Semi-Automatic"

3 = "Custom"

#set mutebotaudio x / #get mutebotaudio

Mute the bottom HDMI output audio

#set audiovol x / #get audiovol

Controls the L/R analog audio jack audio output

x can be -102 to +12 dB

#set audiobass x / #get audiobass

Controls the L/R analog audio jack audio output

x can be -10 to +10 dB

#set audiotreb x / #get audiotreb

Controls the L/R analog audio jack audio output

x can be -10 to +10 dB

4K Integral 2 Total Control APP 1.0.0 for Android and iOS



Main Features of the Android/iOS Total Control APP for Integral 2

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

This APP request Bluetooth authorization and SD card/file writing permissions when installing. The app will allow you to control and operate your Hdfury Integral 2 and CEC components within your Home Theater setup. It can perform the following:

- Reset/HPD/Read/Modify and Upload Configuration.
- Switch Input channel and Matrix/Splitter mode.
- Set Auto switching mode.
- Set Input Priority mode.
- Turn Logo LED ON/OFF.
- Define HDCP rules and fix HDCP error.
- Set EDID mode (Automix, Custom, Copy Top, Copy Bot, Fixed)
- Set Automix Algo with Min Mixed Capabilities, Max Audio/Min Video, Bot Output Priority, Top Output Priority, Max Audio/Max Video.
- Set Automix enforceable video flags (BT2020, HDR10+, HDR HLG, Dolby Vision, 3D Remove, YCbCr)
- Set Automix enforceable audio flags (2.0, 5.1, full, native)
- Set the Custom EDID of your choice for Port 0 and 1 separately (choose from a list of 100 EDID)
- Select the scaling type (Auto, Custom, none)
- Define Auto Scaling for Port 1 from available presets.
- Define Custom Scaling mode for Port 0 and 1 (Upscale or Downscale)
- Set Mode, Colorspace and Deepcolor settings for any input types.
- Disable HDR, AVI or VSI and replace current metadata and infoframe by a custom one.
- Activate and configure OSD data, position, colors and transparency.
- Activate and configure OSD Mask position, colors and transparency.
- Activate and set OSD Text position, colors and transparency.
- Set CEC device with Video Processor or Audio System with ARC.
- Send live CEC command to the HDMI/CEC network.
- Display current link speed and infoframe information.
- Display incoming signal information and active link(s)
- Display GUI, FW and GoBlue version in use.

Get the APP from Google Play Market: [here](#). For iOS, get it from APPstore: [here](#).

On Android, you can create your own menu and add custom commands at any time through an editable XML menu file. You can connect to Integral 2 and use the Bluetooth APP even when no signals is going through the Integral 2

Note: Do not pair your phone to Integral 2 using Android BT Menu, just launch APP and it will autoconnect

IR Code List

For convenience, the complete list of IR codes is supplied in Pronto HEX files, it is recommended to always use the latest IR codes list that is included as a text file format with each firmware and GUI update. Integral 2 IR codes have also been submitted to Logitech Harmony and iRule.

Integral 2_autoswoff: NEC 0x70 0x25

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015
003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5
```

Integral 2_autoswon: NEC 0x70 0x24

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5
```

Integral 2_autoswpriooff: NEC 0x70 0x27

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5
```

Integral 2_autoswprioon: NEC 0x70 0x26

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015
0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5
```

Integral 2_avicustomoff: NEC 0x70 0x1a

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5
```

Integral 2_avicustomon: NEC 0x70 0x19

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
```


Integral 2_edid3dremoveoff: NEC 0x70 0x45

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edid3dremoveon: NEC 0x70 0x44

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidalgo0: NEC 0x70 0x60

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 05d5

Integral 2_edidalgo1: NEC 0x70 0x61

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 05d5

Integral 2_edidalgo2: NEC 0x70 0x62

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 05d5

Integral 2_edidalgo3: NEC 0x70 0x63

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 05d5

Integral 2_edidalgo4: NEC 0x70 0x64

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f

0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 05d5

Integral 2_edidaudio2ch: NEC 0x70 0x3e

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015
0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidaudio51ch: NEC 0x70 0x3f

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidaudio71ch: NEC 0x70 0x40

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidaudionative: NEC 0x70 0x41

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidautomix: NEC 0x70 0x22

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidbt2020off: NEC 0x70 0x3b

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidbt2020on: NEC 0x70 0x3a

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcopybot: NEC 0x70 0x14

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcopytop: NEC 0x70 0x13

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustom: NEC 0x70 0x21

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtable1: NEC 0x70 0x91

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable10: NEC 0x70 0x9a

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f
0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable100: NEC 0x70 0xf4

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f

0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable11: NEC 0x70 0x9b

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015
0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable12: NEC 0x70 0x9c

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable13: NEC 0x70 0x9d

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015
003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable14: NEC 0x70 0x9e

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable15: NEC 0x70 0x9f

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable16: NEC 0x70 0xa0

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable17: NEC 0x70 0xa1

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5
```

Integral 2_edidcustomtable18: NEC 0x70 0xa2

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5
```

Integral 2_edidcustomtable19: NEC 0x70 0xa3

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5
```

Integral 2_edidcustomtable2: NEC 0x70 0x92

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 05d5
```

Integral 2_edidcustomtable20: NEC 0x70 0xa4

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5
```

Integral 2_edidcustomtable21: NEC 0x70 0xa5

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015
003f 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5
```

Integral 2_edidcustomtable22: NEC 0x70 0xa6

```
0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
```

0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015
0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable23: NEC 0x70 0xa7

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015
0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable24: NEC 0x70 0xa8

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015
003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable25: NEC 0x70 0xa9

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015
003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable26: NEC 0x70 0xaa

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015
0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable27: NEC 0x70 0xab

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015
0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable28: NEC 0x70 0xac

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable29: NEC 0x70 0xad

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable3: NEC 0x70 0x93

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable30: NEC 0x70 0xae

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable31: NEC 0x70 0xaf

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable32: NEC 0x70 0xb0

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable33: NEC 0x70 0xb1

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable34: NEC 0x70 0xb2

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f

0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015
0015 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable35: NEC 0x70 0xb3

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015
0015 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable36: NEC 0x70 0xb4

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable37: NEC 0x70 0xb5

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015
003f 0015 0015 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable38: NEC 0x70 0xb6

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015
0015 0015 0015 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable39: NEC 0x70 0xb7

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015
0015 0015 0015 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable4: NEC 0x70 0x94

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable40: NEC 0x70 0xb8

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015
 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable41: NEC 0x70 0xb9

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015
 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable42: NEC 0x70 0xba

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015
 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable43: NEC 0x70 0xbb

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015
 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable44: NEC 0x70 0xbc

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable45: NEC 0x70 0xbd

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015
 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable46: NEC 0x70 0xbe

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f

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0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015
0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable47: NEC 0x70 0xbf

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015
0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable48: NEC 0x70 0xc0

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015
003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable49: NEC 0x70 0xc1

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015
003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable5: NEC 0x70 0x95

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable50: NEC 0x70 0xc2

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f
0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable51: NEC 0x70 0xc3

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable52: NEC 0x70 0xc4

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable53: NEC 0x70 0xc5

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable54: NEC 0x70 0xc6

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable55: NEC 0x70 0xc7

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable56: NEC 0x70 0xc8

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable57: NEC 0x70 0xc9

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable58: NEC 0x70 0xca

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f

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0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015
0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable59: NEC 0x70 0xcb

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015
0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable6: NEC 0x70 0x96

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015
0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable60: NEC 0x70 0xcc

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable61: NEC 0x70 0xcd

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable62: NEC 0x70 0xce

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015
0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable63: NEC 0x70 0xcf

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015
0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable64: NEC 0x70 0xd0

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable65: NEC 0x70 0xd1

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable66: NEC 0x70 0xd2

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f
0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable67: NEC 0x70 0xd3

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015
0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable68: NEC 0x70 0xd4

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f
003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable69: NEC 0x70 0xd5

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015
003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable7: NEC 0x70 0x97

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f

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0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015
0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_edidcustomtable70: NEC 0x70 0xd6

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015
0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable71: NEC 0x70 0xd7

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015
0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable72: NEC 0x70 0xd8

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015
003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable73: NEC 0x70 0xd9

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015
003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable74: NEC 0x70 0xda

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015
0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable75: NEC 0x70 0xdb

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015
0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable76: NEC 0x70 0xdc

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable77: NEC 0x70 0xdd

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015
003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable78: NEC 0x70 0xde

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable79: NEC 0x70 0xdf

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable8: NEC 0x70 0x98

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable80: NEC 0x70 0xe0

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable81: NEC 0x70 0xe1

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f

0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable82: NEC 0x70 0xe2

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable83: NEC 0x70 0xe3

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable84: NEC 0x70 0xe4

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable85: NEC 0x70 0xe5

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015
003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable86: NEC 0x70 0xe6

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015
0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable87: NEC 0x70 0xe7

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015
0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable88: NEC 0x70 0xe8

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015
 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable89: NEC 0x70 0xe9

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015
 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable9: NEC 0x70 0x99

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015
 003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable90: NEC 0x70 0xea

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015
 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable91: NEC 0x70 0xeb

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015
 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable92: NEC 0x70 0xec

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable93: NEC 0x70 0xed

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f

0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015
003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable94: NEC 0x70 0xee

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015
0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable95: NEC 0x70 0xef

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015
0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable96: NEC 0x70 0xf0

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015
003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable97: NEC 0x70 0xf1

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015
003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable98: NEC 0x70 0xf2

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015
0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_edidcustomtable99: NEC 0x70 0xf3

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015
0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 05d5

Integral 2_ediddvoff: NEC 0x70 0x6d

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015
003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 05d5

Integral 2_ediddvon: NEC 0x70 0x6c

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f
003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 05d5

Integral 2_edidfixed: NEC 0x70 0x23

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidhdr10off: NEC 0x70 0x28

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f
003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidhdr10on: NEC 0x70 0x29

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015
003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidhlloff: NEC 0x70 0x2a

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 003f
0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidhlgon: NEC 0x70 0x2b

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f

0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidtopfollow: NEC 0x70 0x90

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_edidyuvremoveoff: NEC 0x70 0x3d

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015
003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidyuvremoveon: NEC 0x70 0x3c

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015
003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_hdcp14: NEC 0x70 0x1f

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_hdcp22: NEC 0x70 0x20

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_hdrcustomoff: NEC 0x70 0x2d

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015
003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_hdrcustomon: NEC 0x70 0x2c

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_hdrdisableoff: NEC 0x70 0x18

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_hdrdisableon: NEC 0x70 0x17

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_inputsel1: NEC 0x70 0x0f

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_inputsel2: NEC 0x70 0x10

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_inputsel3 (matrix thru): NEC 0x70 0x11

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_inputsel4 (matrix swap): NEC 0x70 0x12

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f

0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_jvcmacroMode0: NEC 0x70 0x02

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_jvcmacroMode1: NEC 0x70 0x03

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_jvcmacroMode2: NEC 0x70 0x04

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_jvcmacroMode3: NEC 0x70 0x08

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_jvcmacrooff: NEC 0x70 0x00

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_jvcmacroon: NEC 0x70 0x01

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_logoletoff: NEC 0x70 0x37

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_logoledon: NEC 0x70 0x36

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_osdaudiooff: NEC 0x70 0x5e

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdaudioon: NEC 0x70 0x5f

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdcustomtextoff: NEC 0x70 0x8e

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_osdcustomtexton: NEC 0x70 0x8f

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015
0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 05d5

Integral 2_osdfadeoff: NEC 0x70 0x52

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f

0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdfadeon: NEC 0x70 0x53

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015
0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdhdrdetailoff: NEC 0x70 0x5a

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdhdrdetailon: NEC 0x70 0x5b

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015
0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdhdrifoff: NEC 0x70 0x5c

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdhdrifon: NEC 0x70 0x5d

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015
003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdhdrrxonlyoff: NEC 0x70 0x48

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015
003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdhdrrxonlyon: NEC 0x70 0x49

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015
003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdmaskoff: NEC 0x70 0x47

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdmaskon: NEC 0x70 0x46

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdoff: NEC 0x70 0x50

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdon: NEC 0x70 0x51

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdsourcenameoff: NEC 0x70 0x54

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdsourcenameon: NEC 0x70 0x55

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f

0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015
003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdvideofieldoff: NEC 0x70 0x56

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdvideofieldon: NEC 0x70 0x57

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015
0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdvideoifoff: NEC 0x70 0x58

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_osdvideoifon: NEC 0x70 0x59

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015
003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_poweroff: NEC 0x70 0x15

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015
003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_poweron: NEC 0x70 0x16

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015
003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_reset: NEC 0x70 0x0d

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_scaleauto: NEC 0x70 0x05

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_scalecustom: NEC 0x70 0x07

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_scalenone: NEC 0x70 0x06

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_vsicustomoff: NEC 0x70 0x1e

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_vsicustomon: NEC 0x70 0x1d

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_vsidisableoff: NEC 0x70 0x6b

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f

0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015
0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 003f 0015 05d5

Integral 2_vsidisableon: NEC 0x70 0x6a

0000 006e 0000 0022 0156 00ab 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015
0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop1: NEC 0x71 0x01

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop10: NEC 0x71 0x0a

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop100: NEC 0x71 0x64

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop11: NEC 0x71 0x0b

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop12: NEC 0x71 0x0c

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop13: NEC 0x71 0x0d

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop14: NEC 0x71 0x0e

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop15: NEC 0x71 0x0f

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop16: NEC 0x71 0x10

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop17: NEC 0x71 0x11

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015
003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop18: NEC 0x71 0x12

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop19: NEC 0x71 0x13

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f

0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop2: NEC 0x71 0x02

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop20: NEC 0x71 0x14

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop21: NEC 0x71 0x15

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015
003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop22: NEC 0x71 0x16

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop23: NEC 0x71 0x17

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop24: NEC 0x71 0x18

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop25: NEC 0x71 0x19

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015
003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop26: NEC 0x71 0x1a

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop27: NEC 0x71 0x1b

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop28: NEC 0x71 0x1c

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015
003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop29: NEC 0x71 0x1d

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015
003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop3: NEC 0x71 0x03

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop30: NEC 0x71 0x1e

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f

0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop31: NEC 0x71 0x1f

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop32: NEC 0x71 0x20

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop33: NEC 0x71 0x21

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop34: NEC 0x71 0x22

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop35: NEC 0x71 0x23

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop36: NEC 0x71 0x24

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop37: NEC 0x71 0x25

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015
 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop38: NEC 0x71 0x26

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015
 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop39: NEC 0x71 0x27

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015
 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop4: NEC 0x71 0x04

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop40: NEC 0x71 0x28

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015
 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop41: NEC 0x71 0x29

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015
 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop42: NEC 0x71 0x2a

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f

0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop43: NEC 0x71 0x2b

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop44: NEC 0x71 0x2c

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop45: NEC 0x71 0x2d

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015
003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop46: NEC 0x71 0x2e

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 003f 0015
0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop47: NEC 0x71 0x2f

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop48: NEC 0x71 0x30

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015
003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop49: NEC 0x71 0x31

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015
 003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop5: NEC 0x71 0x05

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop50: NEC 0x71 0x32

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015
 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop51: NEC 0x71 0x33

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015
 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop52: NEC 0x71 0x34

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015
 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop53: NEC 0x71 0x35

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015
 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop54: NEC 0x71 0x36

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f

0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015
0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop55: NEC 0x71 0x37

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop56: NEC 0x71 0x38

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015
003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop57: NEC 0x71 0x39

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015
003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop58: NEC 0x71 0x3a

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015
0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop59: NEC 0x71 0x3b

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015
0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop6: NEC 0x71 0x06

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop60: NEC 0x71 0x3c

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015
 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop61: NEC 0x71 0x3d

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015
 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop62: NEC 0x71 0x3e

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015
 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop63: NEC 0x71 0x3f

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015
 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop64: NEC 0x71 0x40

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015
 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop65: NEC 0x71 0x41

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015
 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop66: NEC 0x71 0x42

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f

0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015
0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop67: NEC 0x71 0x43

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015
0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop68: NEC 0x71 0x44

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop69: NEC 0x71 0x45

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015
003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop7: NEC 0x71 0x07

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop70: NEC 0x71 0x46

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015
0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop71: NEC 0x71 0x47

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015
0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop72: NEC 0x71 0x48

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015
 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop73: NEC 0x71 0x49

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015
 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop74: NEC 0x71 0x4a

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015
 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop75: NEC 0x71 0x4b

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015
 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop76: NEC 0x71 0x4c

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop77: NEC 0x71 0x4d

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop78: NEC 0x71 0x4e

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f

0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015
 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop79: NEC 0x71 0x4f

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 0015
 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop8: NEC 0x71 0x08

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015
 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop80: NEC 0x71 0x50

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop81: NEC 0x71 0x51

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015
 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop82: NEC 0x71 0x52

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f
 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop83: NEC 0x71 0x53

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015
 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop84: NEC 0x71 0x54

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop85: NEC 0x71 0x55

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015
 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop86: NEC 0x71 0x56

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop87: NEC 0x71 0x57

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015
 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop88: NEC 0x71 0x58

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop89: NEC 0x71 0x59

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015
 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop9: NEC 0x71 0x09

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f

0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 0015
003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 05d5

Integral 2_edidcustomtabletop90: NEC 0x71 0x5a

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop91: NEC 0x71 0x5b

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015
0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop92: NEC 0x71 0x5c

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop93: NEC 0x71 0x5d

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015
003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop94: NEC 0x71 0x5e

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f 0015
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop95: NEC 0x71 0x5f

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015
0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop96: NEC 0x71 0x60

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop97: NEC 0x71 0x61

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015
003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 05d5

Integral 2_edidcustomtabletop98: NEC 0x71 0x62

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 003f 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 05d5

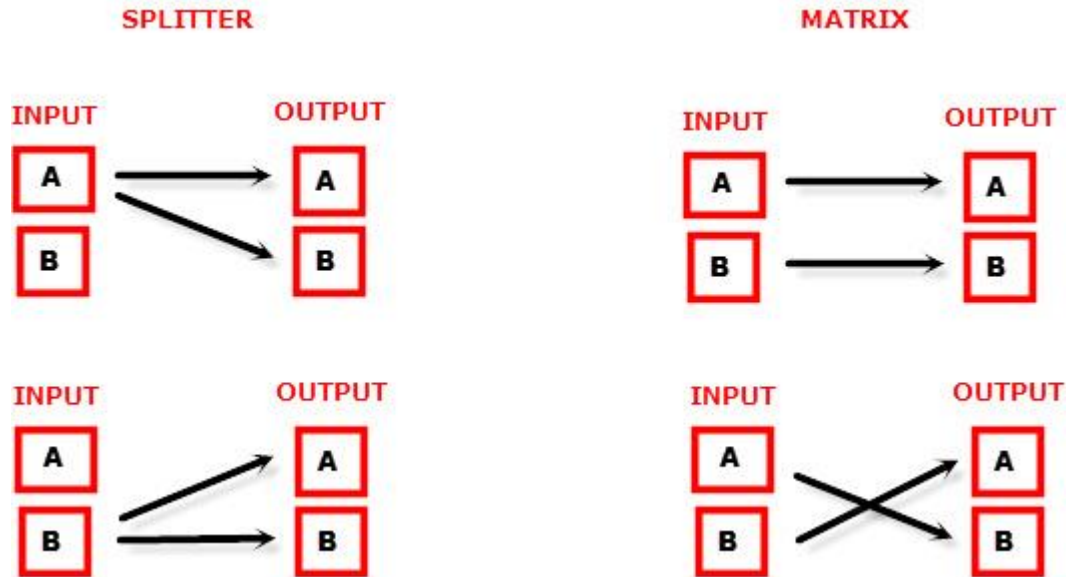
Integral 2_edidcustomtabletop99: NEC 0x71 0x63

0000 006e 0000 0022 0156 00ab 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015
003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015 0015
0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 003f 0015 05d5

FAQ

What is the difference between Splitter and Matrix option, what are the options for each mode?

The below picture represents the available options for both mode.



Can we pass-through 4K60 4:4:4 or any HDR signal and have one output at lower resolution ?

Yes, when connected correctly to the right downscale output port, Integral 2 will automatically scale down UHD to FHD if required by the connected SINK (Display, AVR or others). Similarly it can scale up FHD to UHD if required by the connected SINK to the upscale port.

What is the Bluetooth working range with [GoBlue](#)?

You can connect and use the Bluetooth APP for iOS and Android with Integral 2 and [GoBlue](#) even when no signals are going through the Integral 2. With or without any signals, in all cases, the Bluetooth range is over >10m.

My display is supposed to accept 4K60 4:4:4 signals but it does not work?

For most UHD TV set we tried, there are always extra configuration options to active in order to achieve a 4K60 4:4:4 600MHz link. For ex, on samsung: in order to enable the 444 colorspace for 4k in Samsung TV's you must go to "settings" and "hdmi" and "UHD color" and enable it. Then also you must assign the HDMI port1 as "PC" in the tools menu. Only after these two steps will 600MHz be accepted. Similar activation tricks are required on most UHD TV's. Additionally, most UHD TV's only have specific ports that are 600MHz capable.

I have a PC mode on my TV (or a PC monitor) what resolutions are supported for graphics mode?

All PC graphics mode within the 600MHz bandwidth are supported, including ultra high resolution such as WQXGA, QUXGA, QFHD, WQUXGA, 4K.

What output resolution does the Integral 2 support in HDTV mode?

All known SD, HD, Full HD and UHD formats are supported including: 480i50,480i60, 480p50, 480p60, 576p50, 576p60, 720p50, 720p60, 720p100, 720p120, 1080i25, 1080i30, 1080p24, 1080p25, 1080p30, 1080p48, 1080p50, 1080p60, 1080p72, 1080p75, 1080p96, 1440p50, 1440p60, 2160p24, 2160p25, 2160p30, 2160p50, 2160p60 (these are examples only, anything within the 600MHz bandwidth is supported.)

What version of HDMI does the Integral 2 work with? Do I need HDMI 1.3/1.4a/2.0a/2.0b? Does it matter?

It does not matter. HDFury Integral 2 works with any version of HDMI from 1.0 and up.

Do I need to set anything special in my HDMI source device to set the resolution correctly?

No. The HDFury Integral 2 will be detected as 2160p60 4:4:4 capable device by your source and it will always accept and process the highest quality stream from your source devices. There is no need to set the HDMI source to any specific resolution.

Is there any latency (delay) introduced to the signal?

Virtually none. The latency added is in the order of a few pixel clocks only. Nothing noticeable at all.

What is the USB port for?

To provide power from the supplied USB power unit and for firmware upgrades when new (additional) functions and enhancements are offered.

What about long HDMI cable runs? Can I expect issues?

For 600MHz users must use "high speed" cables, or 600MHz/18Gbps certified, ideally the length should be between 6ft and 12ft for proper 600MHz/18Gbps pass-thru. For 4K30, 1080p or less almost all cables are ok. HDFury Integral 2 acts as a HDMI repeater device. So having HDFury Integral 2 in the path will amplify and recover the signal. You should not need any passive (or active) HDMI amplifiers, especially if you put the HDFury Integral 2 in the middle of your cable run. If you previously had to use an amplifier, the HDFury Integral 2 can most likely take its place. The HDFury Integral 2 has been used with 50 foot (and longer) HDMI cables without issues. However, please note that non-powered active cables that are taking power from HDMI connector might fail with default Power Supply and default power cord. To ensure support for any equipment taking power from HDMI connector at Integral 2 output, please use the port 1 of the optional [Universal Power Supply](#) to power your unit. Alternative options/solutions were published [here](#).

How are the new lossless audio formats via HDMI input handled? E.g. DTS-HD/MA and DD/E-AC3: Are they stripped down to DTS core or Dolby Digital respectively to fit the requirements of the S/PDIF standard?

Lossless audio is transmitted through HDMI output only. HDFury Integral 2 does not compress or otherwise downconvert the incoming audio. Only stereo and 5.1 sound can be output via SPDIF output. The analog output supports stereo only.

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How do I hook up the audio from the Integral 2?

The Integral 2 has both analog and digital (TOSLINK) audio output in one connector labeled "D/A" along with a headphone symbol. It's a 2-in-1 connector meaning that you can plug in either a 3.5mm stereo analog jack or a digital mini-TOSLINK (3.5mm mini-jack) cable and get stereo analog sound or 5.1 Dolby/DTS digital sound out of the Integral 2. See further below for pictures of both types of connectors/cables.

Integral 2 3.5mm mini-TOSLINK digital audio cable:



If you'd like to use a "regular" TOSLINK cable, use a 3.5mm Mini-TOSLINK to regular TOSLINK adapter:



A 3.5mm stereo audio cable can be used for connecting the Integral 2 to a TV if you do not have a home theater setup (you only have 2 speakers in your TV):



Do I need to use the USB power supply?

Yes. Due to the advanced features, the Integral 2 draws more power than previous HDfury models. The Integral 2 power supply must be used at all times.

Is the Integral 2 power supply the same as that used by the HDfury1, HDfury2, and GammaX?

No. The power supply for the HDfury1, HDfury2 and GammaX kits are 0.5A max current. The HDfury3 is 1A max current. The Integral 2 power supply can supply up to 2.0A. Do not use an HDfury1, HDfury2, or GammaX power supplies with the Integral 2.

What sort of power supply does the Integral 2 use?

Integral 2 power supply adheres to these requirements:

- Provides REGULATED (+/- 5%) 5VDC power with 2.0A min DC current
- Delivers the power through a mini usb connector.

Trying to use an AC/DC adaptor that doesn't adhere to these three requirements may destroy the Integral 2. Do not use the power supply from the HDfury1, HDfury2, or GammaX with the Integral 2.

I tried to update my unit, it failed and Integral 2 is shown as USBBOOT under Windows?

Some users are reporting Integral 2 as USBBOOT USBXPRESS under windows after firmware update attempt. USBBOOT means Integral 2 is in the bootloader state, waiting for the actual FW

It means that the update of MCU FW failed or was not even launched properly or cut in between. That leaves the device in bootloader ready to accept the FW update again. Make sure the PC Windows GUI is closed (not running), unplug/replug Integral 2, eventually reboot your computer and launch the FW update again.

Make sure you are using the right Silabs driver for your Windows version and USB port version in use as per explanations on p.19

Highlight Features:

Signal info is everywhere!

Whether it is on OSD, Windows GUI or via Android/iOS APP with the optional [GoBlue](#), your setup info is always available at first sight.

Unique HDCP Doctor

Providing a total of 6 HDCP 1.4 and 2.2 engines for decryption/encryption, HDFury Integral 2 offers a total HDCP workaround solution including HDCP 2.2 > HDCP 1.4 and HDCP 1.4 > HDCP 2.2 both ways conversion within the same unit. It is capable of connecting any HDCP1.x or HDCP2.x source devices to any HDCP1.x or HDCP 2.x sink devices. Each RX block decrypts the input first whether its 1.x or 2.x. Then each output port can individually encrypts it to 1.4(both) or 2.2(only top port) or not encrypt it at all if it was not encrypted initially. Dual conversion can be operated on both channels simultaneously.

Ultra-Scaling up to 4K60 4:4:4 600MHz

HDFury Integral 2 offers impressive scaling modes to ensure that any HDMI/HDCP revision sink device get fed at its max capabilities ALWAYS and GUARANTEED.

Featuring Upscale, Downscale, Passthru and Bypass mode as well as Chroma Conversion and Color Space and Color Depth modification on the fly at 8, 10, 12 and 16bit for FHD, UHD and DCI 4096x2160p. Each output can be set with individual scaling rules.

Display HDCP 2.2 Content with Non-HDCP2.2 Compliant Devices

HDCP 2.2 is the new copy-protection scheme for 4K UHD content. Not only it is not backward compatible but many recent 4K devices don't even support it. Source devices, including media servers and head-ends like Netflix, will encode their 4K content with this new scheme. TVs must be HDCP 2.2-enabled to play it, and everything in the video chain including switches and receivers must be compliant as well, or the display will go dark and/or display a HDCP error message. Bad news for consumers who have purchased expensive, high-bandwidth, processor-rich switchers, receivers and displays to accommodate 4K. While the newer products may support the bandwidth needs of 4K, they won't play copy-protected works until Integral 2 is an active part of the setup.

2x2 Splitter up to 4K60 4:4:4 600MHz 18Gbps

Splitting any signal up to 4K60 4:4:4 600MHz signal is now a reality, thanx to IR/USB/RS232/ push buttons or Bluetooth (with [GoBlue](#)), you can easily switch between 2 inputs that will be replicated to 2 outputs. HDCP conversion can be configured and applied on the fly in order to always output the type of HDCP signal encryption that your display or sink device is expecting.

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2x1 Switcher up to 4K60 4:4:4 600MHz 18Gbps

Switching between 2 inputs up to 4K60 4:4:4 600MHz signal and scaling through all HDMI levels and revision is now a reality, thanx to IR/USB/RS232/ push buttons or Bluetooth (with [GoBlue](#)), you can easily switch between 2 inputs that will be scaled to one or more output. HDCP conversion can be configured and applied on the fly in order to always output the type of HDCP signal encryption that your display or sink device is expecting.

HDR and Infoframe Metadata Live Injector and Extractor

The Integral 2 is capable of injecting and extracting live Infoframe and HDR metadata at any resolution and also in real time. Incoming metadata and self-generated metadata can be built and deciphered in real time. Additionally Integral 2 also support AVI infoframe, VSIF and others infoframes manipulation.

HDMI Audio Extracting

Hdfury Integral 2 can extract HDMI audio up to 5.1 and pass-thru any sound format including Atmos and DD+ via HDMI while downscaling the video for older AVRs, it have a simultaneous output of analog L/R stereo and up to 5.1 optical S/PDIF via 3.5mm combo jack connector.

RS232 Control for MAC/Linux/Windows

All Integral 2 GUI controls are available via RS232 commands in order to ensure a total control from any serial based computer.

Advanced EDID Management

The most advanced EDID Management solution we ever done is now available from the Integral 2 with either: A Selected EDID bank, a Custom uploaded EDID, a Self-generated Automix EDID or a Fixed basic EDID. Sniff EDID from connected sink devices, Save, Edit, Load any custom EDID table at any time. Select and pick any EDID of your choice from a preloaded list of 100 EDID tables, it loads and reset HPD to present your chosen one automatically. AutoMix EDID feature will create a custom EDID by mixing both sink EDID connected to the output ports. Mixing rules in AutoMix mode can be selected through 4 different algorithms. Some EDID flags can be forced in Automix such as: 2.0 Stereo, 5.1 Multi, 7.1 Full Sound, Native, BT.2020/xvYcc, HDR10+, HLG, Dolby Vision, 3D Remove, YCbCr Remove. Integral 2 also offers the possibility to have a specific/individual EDID per input. Integral 2 automatically sniff DV mandatory string from connected capable DV sink.

HDMI/CEC TOTAL COMMANDER

Hdfury Integral 2 offers a unique CEC command manager, with CEC compatible equipment. CEC commands allow a HDMI source to send commands to connected HDMI devices.

TOTAL CONTROL

Integral 2 can be controlled via IR/USB/RS232/ push buttons or Bluetooth (with [GoBlue](#)). 4K Integral 2 Total Control APP is available on [Google Market](#) for mobile and tablet running Android and

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from the Apple store for iOS. RS232 is compatible for any serial based computer, USB GUI Utility for Windows PC, IR control and various physical buttons for configurations are also available. Thanks to the community, IR pronto code list is added to [iRule](#) and [Logitech Harmony](#) for even easier and seamless integration

2x2 Matrix to 4K60 4:4:4 600MHz 18Gbps

Matrix solution is available for HDMI stream up to 4K60 4:4:4 8b, 4K60 4:2:2 12b, 4K120 4:2:0 8b or 8K30 4:2:0 8b.

Main Specifications

- ▶ 2x Input / 2x Output Splitter/Matrix/Scaler (HDMI2.0b/HDMI1.4/DVI1.0 compatible)
 - 4K60 4:4:4 600MHz 18Gbps Pass through
 - 4K24/25/30/50/60 <> 1080p24/25/30/50/60 Upscale/Downscale with or without colordepth maintained and with or without hdcp, chroma or colorspace conversion.
 - Video Bandwidth - 18 GBP/sec.
 - HDR10+/Dolby Vision Support.
 - 4K 10, 12, 16 Bit Support
 - 16 Bit Per Pixel Deep Color Depth Available (48 Bit)
 - Max Res: 4K60 4:4:4 8b, 4K60 4:2:2 12b, 4K120 4:2:0 8b or 8K30 4:2:0 8b
 - Signal Conversion: Resolution, Chroma Subsampling, Color Space, Color Depth, HDCP
- ▶ HDCP Doctor (HDCP Workaround solution to any HDCP error)
 - HDCP 2.2 > HDCP 1.4 conversion
 - HDCP 1.4 > HDCP 2.2 conversion
 - HDCP x.x > HDCP x.x conversion
 - Dual HDMI2.0b & HDMI 1.4 combined
 - Dual HDCP 1.4 & HDCP 2.2 combined
- ▶ CEC Support: For inter-device control between both inputs and the primary output (BOT) HDMI channel.
- ▶ OSD to provide useful and insight view of signal information
- ▶ Audio Extracting: Audio De-Embedder of Optical & Analog L/R
- ▶ Advanced EDID management via USB, IR or Bluetooth APP
 - Improved EDID Management solution with either a Selected EDID bank, Custom uploaded EDID, Self-generated Automix EDID or a Fixed basic EDID.
 - Sniff EDID from connected sink devices, Save, Edit, Load any custom EDID table at any time.
 - Select and pick any EDID of your choice from a preloaded list of EDID tables, it loads and reset HPD to present your chosen one automatically.
 - AutoMix EDID feature will create a custom EDID by mixing both sink EDID connected to the splitter output ports.
 - Some EDID flags can be forced in Automix such as: Stereo/5.1/Full/YCbCr/BT2020/HDR/3D
 - Each input can run a specific/individual EDID.
- ▶ Infoframe Modes: Capture, edit, block or replace HDR metadata, AVI & VSIF.
Read SPD, Audio, HDMI Vendor, HDMI Forum
- ▶ Control Modes: IR, Windows GUI, RS232 for Linux/MAC/Win, Android/iOS with [GoBlue](#).
- ▶ HDMI Booster/Extender: Capable of extending 1080p resolution up to 15m. in and 15m. out (30m. total for 1080p), UHD resolution up to 10m.

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- › HDMI Doctor: Solves most HDMI integration issues such as HDCP, EDID, HPD, and audio breakout.
- › HDMI Equalevel: Precise signal equalization for both input and output signals delivers the best possible picture quality with no dropouts.
- › Hot-Plug control: Force the input device to always see an active connection.
- › Deep Color Support
- › xvYCC Color Support
- › Flexible/Portable/Plug'n Play
- › 3D Ready: Capability to pass 3D stereoscopic signal formats.
- › Public API/DLL access and extensive control to extract, edit and inject HDR metadata, AVI and VSIF Infoframe. Read SPD, Audio, Vendor Specific and more.
- › Share your config with the community, display any text on OSD, set your start page, remove visually annoying or lamp consuming artifacts like TV channel logo and more.

Supported Audio/Video Signals

- › Supported Format: SD/HD/FullHD/UHD/4K30/4K60, basically INPUT/OUTPUT any video format up to 4K60 4:4:4 600MHz 18Gbps.
- › Supported Resolution examples:
480p/720p/1080i/1080p24/1080p25/1080p30/1080p50/1080p60/1440p50/1440p60/2160p24/2160p25/2160p30/2160p50/2160p60 and DCI
- › Support all UHD/BR and HDR standard resolution: 4K60 4:2:2 12bit BT2020 HDR, 4K60 4:2:0 10bit BT2020 HDR, 4K60 4:2:0 12bit, 4K30 4:4:4 12bit, ..
- › Support all VESA mode video formats (PC Resolutions) up to ultra-high resolution such as WQXGA, QUXGA, QFHD, WQUXGA, 4K
- › Support any Audio format such as PCM at up to 192kHz, compressed audio (IEC61937), DSD, DST,DTS, DTS-HD, Dolby True HD, DTS-MA, HBR, DD+, DTS:X and Dolby Atmos.

Technical Specifications

- › I/O: 2 HDMI In, 2 HDMI Out, IR, RS232, USB, Analog Mini Jack, Optical S/PDIF Out.
- › Audio: PCM at up to 192kHz, compressed audio (IEC61937), DSD, DST, DTS, DTS-HD, Dolby True HD, DTS-MA and HBR.
- › DDC Signal: 5V p-p (TTL)
- › Power Supply: External 5 Volt 2 Amp USB (same as most smartphone/tablet PSU)
- › Power Consumption: <2Watts
- › Product Dimensions: 3.9"L x 2.4"W x 0.8"H – in CM: 10 x 6 x 3 Weight: 130g – 0.3 LBS
- › Shipping Dimensions: 6.3" x 4.2" x 3.3", Weight: 16 oz
- › Enclosure: Black PVC/Black metal with Green/Blue Led
- › Regulation: CE, FCC, RoHS, WEEE

Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.

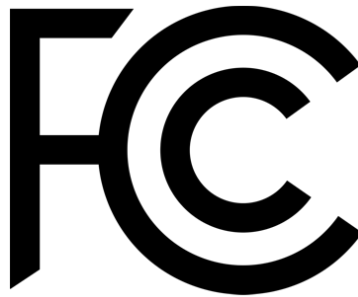
Certifications



[Integral 2 CE Certification](#)



[Integral 2 RoHS Certification](#)



[Integral 2 FCC Certification](#)

Pro Tips

-Dolby Vision: DV mode 0 and 1 travels thru 8b RGB container, so it is normal that Integral 2 report RGB 8b when playing such DV mode. If Integral 2 is not directly connected to your DV TV and you have equipment in between, please first connect Integral 2 bottom output to your TV input and let Integral 2 boot up. Then disconnect and insert equipment in between. Integral 2 will sniff your TV EDID and present it to your source, therefor allowing you to go thru equipment that doesn't support Dolby Vision.

-If Windows GUI does not display nicely on your screen:

Make sure the GUI isn't already running, then right click the GUI exe file (the regular one, there's no need to do this with the 200dpi version) > Select "**Property**".

Click the "**Compatibility**" tab.

Look down for "**Override high DPI scaling behavior**" and check the box.

For the drop-down under "**Scaling Performed by**" choose "**System - Enhanced**".

Start the GUI and revel in how it works normally now.

- Bot Output is CEC/ARC capable

- Ex of AVI InfoFrame:

BT.2020 RGB 00:E8:64:5D:00

BT.2020 YCbCr 4:2:2 20:E8:64:5D:00

BT.2020 YCbCr 4:4:4 40:E8:64:5D:00

BT.2020 YCbCr 4:2:0 60:E8:64:5D:00

4k24 422 709 ycbcr no-bt2020 20:88:00:00

4k24 422 ycbcr bt2020 20:c8:60:00

4k24 444 709 ycbcr no-bt2020 40:88:00:00

4k24 444 ycbcr bt2020 40:c8:60:00

1080p 422 709 ycbcr no-bt2020 20:88:00:10

1080p 422 ycbcr bt2020 20:c8:60:10

-iRule use \x0D instead of \r (or \x0A for /n) to terminate the RS232 command string.

- Some sources like X15 or K8500 might need to have powercord removed/reconnected between EDID changes

- Atmos via ARC require HDMI Cable that support 192khz ARC, even if a cable support 600MHz video signal it can still fail for 192khz audio signal.

- You can read one, or mix two connected Sink EDIDs, apply forced flags and algo to it and then save it as an EDID file, thus creating your own Custom EDID variation.

- Any 4:2:2 signals is always processed at 12b and never clipped. That's why it mentions "up to 12b".

- Source VS Integral 2 frame rate reported: Actually very few devices will report the correct frame rate. It is all about the clock frequency, the theory is $24/1.001 = 23.976023976$

BUT there is no PLL (https://en.wikipedia.org/wiki/Phase-locked_loop) at the source that actually gives a corresponding clock which would yield that. So once a signal leaves the source, the clock is always off and usually ebbs and flows, means changes all the time. We just decided to show what it really is from the particular source rather than approximating what it should be as many are doing since they cannot report exact frame rate like we are doing with Integral 2.

Team HDfury thanks you for your support!

For help, visit our [support server](#) or [contact us](#).



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Disclaimer: 3rd party and/or custom firmware providing extra features are not covered in this manual.