K23

Professional and Versatile 23" LED Monitor

Ultra**View**

4KUHD

Key Benefits

▶ 23" LED, 3840 x 2160 native UHD resolution
▶ 1920 x 1080 & 1920 x 1200 resolution support
▶ 1.07 billion colors (10-bit) / 310 cd/m² brightness
▶ PIP Sub-screen & PBP Dual-screen viewing efficiency
▶ Display port 1.2 + HDMI 1.4 + HDMI 2.0 video input
▶ Video decoding capability up to 1080p (option)
▶ Rugged structure ensures high mobility
▶ IP65 front protection (NAP series)
▶ Professional-use durability & around-the-clock operation
▶ 2-year standard warranty (upgradable up to 5 years)

Applications

● Broadcasting / Advertising
● Traffic control / Command center
● Directory / Ticket kiosk
● Surveillance system
● Vehicle mount display
● Bathroom TV

UltraView K23 series 23" 4K UHD LED monitor supports 3840 x 2160 resolution, 4 times the resolution of FHD. True 10-bit input enables 1.07 billion colors to be presented, achieving ultimate picture quality. Improved energy efficiency and fan-less architecture provides professional-use durability and around-the-clock operation.

K23 is more than just a standalone monitor. UltraView has a variety of embedded modules including HDMI Decoder, HDMI Extender, HDMI Quad display Extender, Multi-Monitor OSD Controller, SDI Input and Portrait Mode Kit. The embedded modules give you the ability of video remote management and transmission for multiple monitors over network.

As a versatile 4K monitor, K23 is meticulously designed to meet professional and environmental demands including IP54 Front protection, Multi-touch, Anti-reflective/Vandal proof glass, DC power input, Brightness dimming and Mounting kit for Panel-mount, VESA-mount, Universal-mount and Desktop stand.

With over 22 years' production experience, the K23 structure is well-engineered and manufactured by our own CNC facilities and team of experts to ensure its ruggedness, mobility and quality, as well as being suitable for harsh environment applications. The structure can be customized if required to facilitate monitor installation. Our knowledgeable engineers are able to provide frame customization for specific dimensions, color, metal treatment, screen printing, bezel and mounting.

Options

Video Management & Transmission over Network

● Embedded HDMI Decoder Module 1080p over IP
● Embedded HDMI Extender Module 1080p over network
● Embedded HDMI Quad Display Module 1080p over network
● Embedded HDMI Quad Display Extension Module
● Embedded Multi Monitor OSD Control Module over serial
● Embedded 3G / HD / SD-**SDI** Input Module
● Embedded Portrait Mode Module
● Embedded Brightness Dimming Module

Touchscreen & Glass Protection

● Projected Capacitive 10-point Touch
● Infrared 6-point Touch
● 5-Wire Resistive 1-point Touch
● Anti-reflective Glass
● Vandal Proof Glass

DC Power

● 12V / 24V / 48V / 125VDC (100 Watt)

Bezel & Frame Customization

● Dimension
● Color & Treatment
● Screen Printing
● Stainless Steel Bezel

Mounting

● VESA mount , 100 x 100mm (bundled)
● Universal mount (bundled)
● Desktop stand (option)
● Panel mount (bundled)

K23 Professional and Versatile 23" LED Monitor

UltraView

6mm aluminum front bezel

AP-K23

6mm aluminum front bezel
NEMA 4 / IP65 front protection

NAP-K23

Aluminum front cover

DP-K23

Universal open frame

OP-K23

Diagrams (mm)

Front View	Side View	Rear View
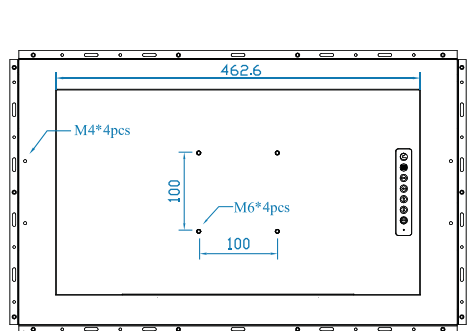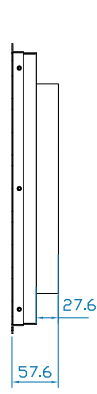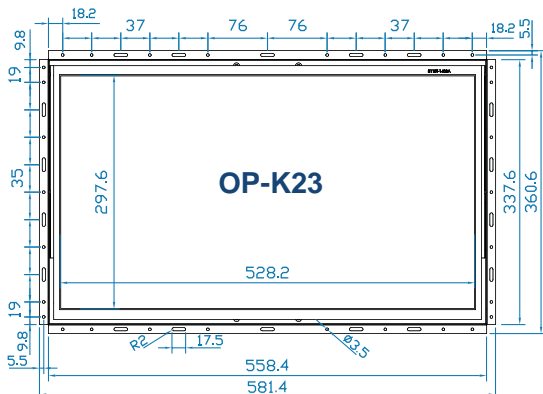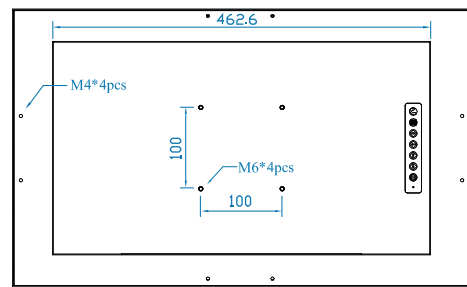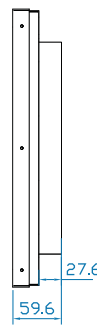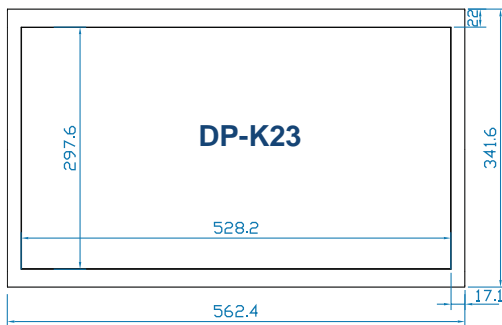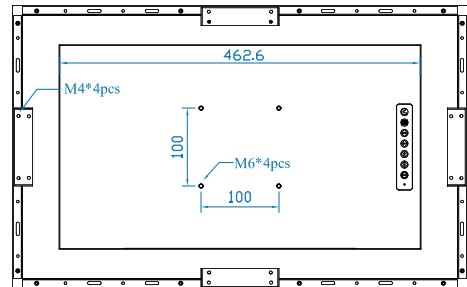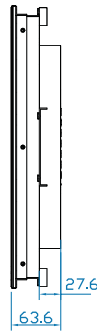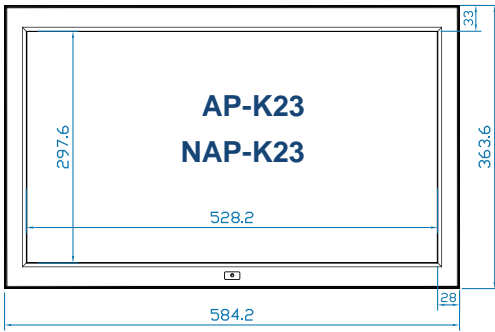
AP-K23 / NAP-K23

Front View: 297.6, 528.2, 584.2, 33, 363.6, 28

Side View: 27.6, 63.6

Rear View: 462.6, M4*4pcs, 100, M6*4pcs, 100

DP-K23

Front View: 297.6, 528.2, 562.4, 22, 341.6, 17.1

Side View: 27.6, 59.6

Rear View: 462.6, M4*4pcs, 100, M6*4pcs, 100

OP-K23

Front View: 18.2, 37, 76, 76, 37, 18.2, 5.5, 9.8, 19, 35, 297.6, 528.2, 337.6, 360.6, 19, 9.8, 5.5, R2, 17.5, Ø2.5, 558.4, 581.4

Side View: 27.6, 57.6

Rear View: 462.6, M4*4pcs, 100, M6*4pcs, 100

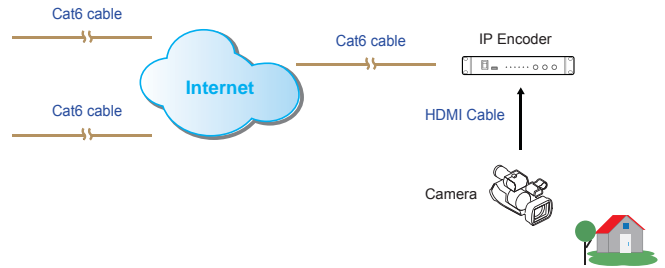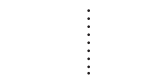## Options — Video Management & Transmission over Network

Embedded HDMI Decoder Module 1080p over IP

- Decodes RTSP, RTMP, UDP, HTTP, HLS protocols
- Supports video resolutions up to 1080p / 60Hz
- Unicast and multicast support
- Operates on standard 1000Mb Ethernet networks
- Built-in Web UI for configuration and control
- Excellent image quality with very low delay

Part no.

Embedded HDMI Decoder Module : **UV-DE100F**
Standalone HDMI Encoder : **UV-EN100F**

K23 w/ decoder · Cat6 cable · Internet · Cat6 cable · IP Encoder · Cat6 cable · Cat6 cable · HDMI Cable · Camera

K23 w/ decoder

Embedded HDMI Receiver Module 1080p

- Extends the HDMI signal over a single Cat5/6 cable
- Supports video resolutions up to 1080p / 60Hz
- One to one just via Cat5/6 cable
- One to multi via network hub and Cat5/6 cable
- 100m maximum Cat5/6 cable distance
- Supports bi-directional IR communication
- High Speed HDMI 1.3 and HDCP 1.1 compliant
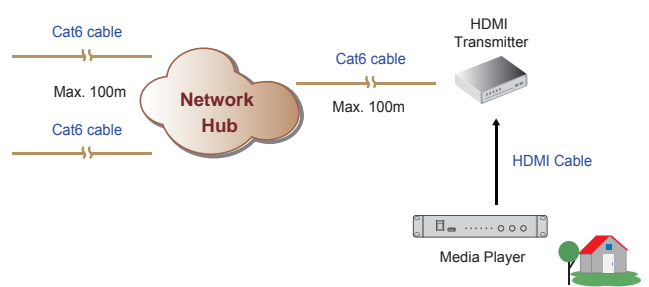- No software or drivers required
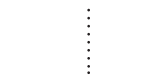
Part no.

Embedded HDMI Receiver Module : **UV-R100F**
Standalone HDMI Transmitter : **UV-T100F**

K23 w/ receiver · Cat6 cable · Max. 100m · Network Hub · Cat6 cable · Max. 100m · HDMI Transmitter · Cat6 cable · HDMI Cable · Media Player

K23 w/ receiver

Up to 250 monitors

Embedded HDMI Quad Display Module 1080p

- Allows 4 x HDMI inputs to be monitored simultaneously
- Quad split, panel left and full screen monitoring modes
- High speed HDMI 1.3a and HDCP 1.2 compliant
- Supports video resolutions up to 1080p / 60Hz
- Supports Scaler Up and Down function
- Control via local front panel and IR remote

Part no.

Embedded HDMI Quad Display Module : **QD-1080**
Embedded Quad Display Extension Module : **QD-E1080**

K23 w/ Quad Display

HDMI 1 | HDMI 2
HDMI 3 | HDMI 4

HDMI 1 — NVR — CCTV x 4
HDMI 2 — DVD Player
HDMI 3 — DVD Player
HDMI 4 — NVR — CCTV x 4

Cat6 cable
Max. 50m

HDMI 1 | HDMI 2
HDMI 3 | HDMI 4
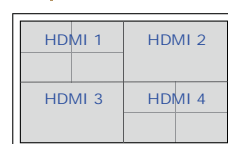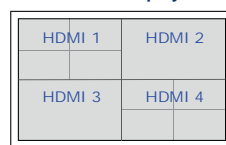
K23 w/ Extension Module

Options — Video Management & Transmission over Network

Embedded Multi Monitor OSD Control Module over serial

- Remote control the monitor OSD via RS-232C serial interface
- Daisy chain up to 64 monitors via Cat5/6 cable
- Individual ID for individual monitor OSD settings
- Power ON or OFF monitor
- Adjust brightness & audio
- Switch video sources

OSD control station

K23 w/ OSD control   **K23 w/ OSD control**   **K23 w/ OSD control**   **K23 w/ OSD control**

ON (HDMI-1)   OFF   ON (VGA)   ON (HDMI-2)

Up to 64 monitors
Up to 1,000m distance

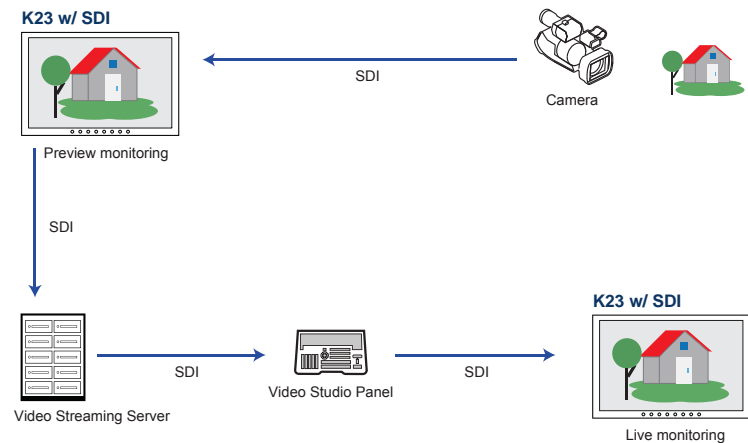Cat6 cable   Cat6 cable   Cat6 cable   RS-232 serial cable
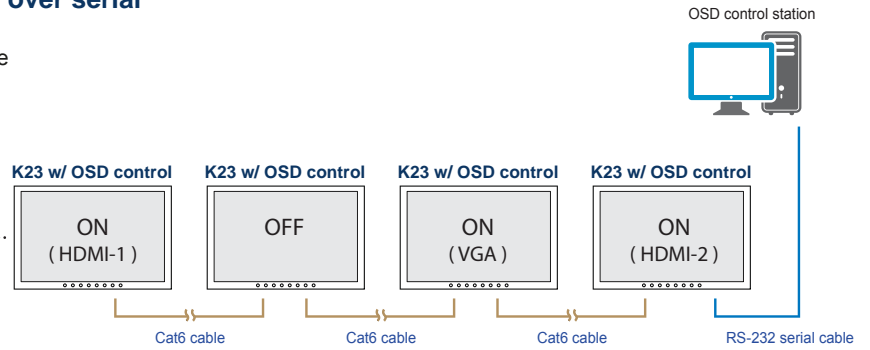
Part no.

Embedded Multi Monitor OSD Control Module : **MCS**

Embedded 3G / HD / SD-SDI Input Module

- Intelligent SDI monitoring with broadcast quality scopes
- Supports multi-rate 3G / HD / SD-SDI format
- Provides input to output loop-through capability
- Auto format sensing & selection

Part no.

Embedded 3G / HD / SD-SDI Input Module : **SDI**

K23 w/ SDI

SDI

Camera

Preview monitoring

SDI

Video Streaming Server   SDI   Video Studio Panel   SDI   **K23 w/ SDI**

Live monitoring

Embedded Portrait Mode Module

- Provides users with a rotation feature (0, 90, 180 & 270 orientation) without frame delay via OSD
- Allows distortion-free display of content in various orientations
- Creates new application opportunities

K23
w/ Portrait mode module

Part no.

Embedded Portrait Mode Module : **AD4.0-P**

Embedded Auto Brightness Dimming Module

- Brightness changes according to its ambient brightness
- Its brightness change causes 10% increase or decrease

Part no.

Embedded Brightness Auto Dimming Module : **DA-01**
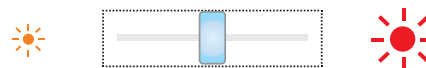
Embedded Manual Brightness Dimming Knob

- Easy-to-use IP54 dimming knob on the front panel
- One click causes 2% brightness increase or decrease
- Brightness adjustment from 0% to 100%

Part no.

Brightness Dimming Knob : **DS-01**

Option — e-Resistive 1-point Touch

	TRB e-Resistive
Technology	5-Wire Resistive
Touch Point	Single
Input Type	Finger or Stylus
Resolution	2048 x 2048
Response Speed	15 ms
Activation Force	≤ 50 g
Surface Hardness	3H
Light Transmission	80% ± 3%
Haze	8% ± 3%
Durability	10 million touches
Top Layer	ITO Film
Bottom Layer	ITO Glass
Thickness	2.2 ± 0.2 mm
Connector	USB Type A
Compatibility	Windows 7 / XP / Linux / Mac

Part no. : K23TRB

** Dimension will be changed
if multi-touch required

Option — Projected Capacitive 10-point Touch

	TPC-10 Multi-touch
Technology	Projected Capacitive
Touch Point	10 point touch standard (special requirement available)
Input Type	Finger or Capacitive Stylus
Resolution	4096 x 4096
Touch Point Accuracy	± 2 mm
Response Speed	< 5 ms
Activation Force	< 5 g
Surface Hardness	6H
Light Transmission	> 85%
Haze	3%↓
Durability	50 million touches
Top Layer	3 mm Glass
Bottom Layer	0.7 mm Sensor Glass
Thickness	3.9 ± 0.1 mm
Connector	USB
Compatibility	Windows / Linux / Android / Mac

Part no. : K23-TPC10

** Dimension will be changed
if multi-touch required

Option — Infrared 6-point Touch

	IR-06 Infrared
Technology	Infrared
Touch Point	6
Input Type	Pen, Finger, Finger of gloved hand activation
Touch Point Accuracy	± 2 mm
Response Speed	≤ 8 ms
Activation Force	No minimum touch activation force
Touch Durability	Unlimited
Glass Thickness	2 mm
Connector	A-type USB
Operating System	Windows 7 / Windows 10

Part no. : K23-IR06

** Dimension will be changed
if multi-touch required

Options — DC Power

		12V	24V	48V	125V
Input rating	Input voltage	12-Volt	24-Volt	48-Volt	110-Volt
	Input range	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V
Input current	No load	50 mA	50 mA	50 mA	35 mA
	Full load	7183 mA	3551 mA	1755 mA	749 mA
Output rating	Output voltage	12-Volt	12-Volt	12-Volt	12-Volt
	Output current	6.25A	6.25A	6.25A	6.25A
Efficiency		87%	88%	89%	91%

**Part no. : 12VDC
24VDC
48VDC
125VDC**

Product Specifications

LCD Panel

Panel size (diagonal)	23-inch widescreen TFT color LCD
Native resolution	3840 x 2160
Brightness (cd/m²)	310
Contrast ratio (typ.)	1000 : 1
Colors	1.07 Billion, 10-bit
Viewing angle (L/R/U/D)	89/89/89/89
Response time (ms)	25
Dot pitch (mm)	0.13725
Display area (mm)	527.04H x 296.46V
Surface treatment	Anti-glare
Surface hardness	3H
Backlight type	LED
MTBF (hrs)	30,000

Video

Digital : Display port HDMI	DP 1.2 / HDCP 1.3 HDMI 2.0 / HDCP 2.2 HDMI 1.4 / HDCP 1.4

Audio

Audio input : Connector Impedance / Power level	3.5mm stereo jack 30kΩ / 750mV
Audio output : Connector Resistance / Power level	3.5mm stereo jack 30kΩ / 2.8V
Speaker : Dual stereo speaker	2W x 2

*When the audio output is connected, speaker output is OFF

Power

Input	Auto-sensing 100 to 240VAC, 50 / 60Hz
Consumption : Screen on Power saving mode Power button on	 Max. 45W Max. 9W Max. 2W

Environment

Operating temp.	0 to 55°C degree
Storage temp.	-20 to 60°C degree
Operating humidity	20~90%, non-condensing
Storage humidity	5 ~90%, non-condensing
Operating altitude	16,000 ft
Non-operating altitude	40,000 ft
Shock	10G acceleration (11ms duration)
Vibration	10~300Hz 0.5G RMS random vibration

Design

Design	AP-K23	NAP-K23	DP-K23	OP-K23
Protection	6mm front bezel	NEMA 4 / IP65	front cover	open frame
Front panel	Black, RAL 9005			-
Rear casing	Black, RAL 9005			

Mounting

Mounting	AP-K23 / NAP-K23	DP-K23	OP-K23
VESA mount	100 x 100 mm	100 x 100 mm	100 x 100 mm
Universal mount	-	-	bundled
Desktop stand	option	option	-
Panel mount	bundled	bundled	-

Physical

Physical	AP-K23 / NAP-K23	DP-K23	OP-K23
Product (W x D x H) : mm inch	 584.2 x 63.6 x 363.6 23 x 2.5 x 14.3	 562.4 x 59.6 x 341.6 22.1 x 2.3 x 13.4	 581.4 x 57.6 x 360.6 22.9 x 2.3 x 14.2
Packing (W x D x H) : mm inch	 659 x 117 x 640 25.9 x 4.6 x 25.2	 659 x 117 x 640 25.9 x 4.6 x 25.2	 659 x 117 x 640 25.9 x 4.6 x 25.2
Net weight	9 kg / 19.8 lb 9 kg / 19.8 lb	7.9 kg / 17.4 lb	6.7 kg / 14.7 lb
Gross weight	12.7 kg / 27.9 lb 12.7 kg / 27.9 lb	11.6 kg / 25.5 lb	10.4 kg / 22.9 lb
Chassis color	dark		
Chassis materials	Aluminum		

Compliance

EMC	FCC & CE certified
Safety	CE / LVD certified
Environment	RoHS2 & REACH compliant

Applicable Format

Display port input	PC signal	3840 x 2160 x 60Hz
		1920 x 1080 x 60Hz
		1600 x 1200 x 60Hz
		1360 x 768 x 60Hz
		1280 x 1024 x 60 / 75Hz
		1280 x 768 x 60Hz
		1024 x 768 x 60 / 70 / 75Hz
		800 x 600 x 60 / 72 / 75Hz
		720 x 400 x 70Hz
		640 x 480 x 60 / 72 / 75Hz
	Audio signal	2ch Linear PCM
HDMI input	HDMI 2.0	3840 x 2160 x 60 Hz
	HDMI 2.0 / 1.4	3840 x 2160 x 30 Hz
		1920 x 1080 x 50 / 60Hz (1080p)
		1920 x 1080 x 25 / 30Hz (1080i)
		1280 x 720 x 50 / 60Hz (720p)
		720 x 480 x 50 / 60Hz (576p / 480p)
	Audio signal	2ch Linear PCM

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PS-UV-621-K23-Q118V1

UltraView

UltraView Family

UltraView series covers a full range of professional LCD display sizes from 6.5" to 65".
Please select from the below the most suitable model for your application.

16 : 9
(4K / 1080p)
- K65"
- K55"
- K43"
- K32"
- K28"
- K23"
- K17"
- K15"

16 : 9
(1080p)
- F21"
- F17"
- F15"

16 : 10
- X24" (1920 x 1200)
- X17" (1920 x 1200)
- W19" (1440 x 900)

4 : 3
- 20" (1600 x 1200)
- 19" (1280 x 1024)
- 17" (1280 x 1024)
- 15" (1024 x 768)
- 12" (800 x 600)
- 10" (800 x 600)
- 8" (800 x 600)
- 6" (640 x 480)

Sunlight Readable

16 : 9
(4K / 1080p)
- K65"
- K55"
- K43"
- K32"

16 : 9
(1080p)
- F21"
- F17"

16 : 10
- W19" (1440 x 900)

4 : 3
- 19" (1280 x 1024)
- 17" (1280 x 1024)

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