



# HDMI / DVI-D Up Down scaler Converter



**UDC-220**

User Guide  
V1.001

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# Introduction

The **UDC-220** is a HDMI and DVI-D scaler converter, it's designed up or down incoming video and acceptable resolution to match the HD/SD SDI displays and devices with 8 channels of audio. The Highest Resolution can be supported to 1080P.

HDMI and DVI-D modes can be controlled via the front panel buttons. Green LED light indicates SDI output resolutions. Plug and play, user easy to control it.

## *Features*

- 3G-SDI (SMPTE 424M/425M, 3.3 Gb/s)
- HD-SDI (SMPTE 292M, 1.485Gb/s)
- SDI ( SMPTE 259M, 360Mb/s)
- Integrated Audio Embedded for up to 8 channels of 48kHz audio
- Incoming Resolution Auto-Detected
- Transmit HDMI to SDI or DVI-D to SDI
- Hotkey direct to select HDMI to SDI and DVI-D to SDI Video Output Resolutions
- HDMI : (Ver 1.3)

## *How it work*

Connect the **UDC-220** HDMI or DVI-D inputs, the unit will transmit Video Sources to SDI compatible formats. Select the Output formats on DVI-D and HDMI Hotkeys. (Both of HDMI and DVI-D can be plugged at the same time, select each of modes by the front panel buttons)

# Specification

## • Supportive HDMI / DVI-D Input

	Input Source	Screen Display
3G-A	1080P@60Hz	1920X1080P 60
	1080P@50Hz	1920X1080P 50
HD	1080P@30Hz	1920X1080P 30
	1080P@25Hz	1920X1080P 25
	1080P@24Hz	1920X1080P 24
	1080I@60Hz	1920X1080I 60
	1080I@50Hz	1920X1080I 50
	720P@60Hz	1280X720P 60
	720P@50Hz	1280X720P 50
	SD	625P@50Hz
525P@59.94Hz		720X480P
625I@50Hz		720X576I
525I@59.94Hz		720X480I
PC	1680*1050@60Hz	1680X1050
	1440*900@60Hz	1440X900
	1400*1050@60Hz	1400X1050
	1366*768@60Hz	1366X768
	1360*768@60Hz	1360X768
	1280*960@60Hz	1280X960
	1280*768@60Hz	1280X768
	1024*768@60Hz	1024X768
	800*600@60Hz	800X600
	640*480@60Hz	640X480

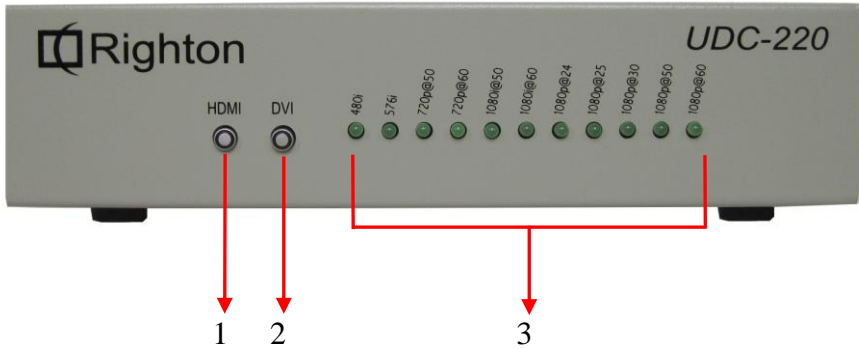
**• Supportive SDI Output**

3G-A	1920*1080P@60Hz
	1920*1080P@50Hz
HD	1920*1080P@30Hz
	1920*1080P@25Hz
	1920*1080P@24Hz
	1920*1080I@60Hz
	1920*1080I@50Hz
	1280*720P@60Hz
	1280*720P@50Hz
SD	480I
	576I

- 1 x HDMI Input and 1 x DVI-D Input,  
Input Resolutions: 480I to 1080P@60Hz  
640 x 480@60Hz to 1680 x 1050@60Hz
- 2 x SDI Output
- Power: DC 12V@2A
- Dimension: 180 x 104 x 43.5 mm
- Weight: 0.5 Kg
- Operating Temperature: 5 °C ~ +60 °C
- Storage Temperature: 0 °C ~ +70 °C
- Accessories Included: 1 x Power Supply  
2 x 19" Rack Mount Ears  
4 x Rubber Stands

# On Screen Control Function

## *Front Panel*



### 1. **HDMI**

Select HDMI to SDI Output formats

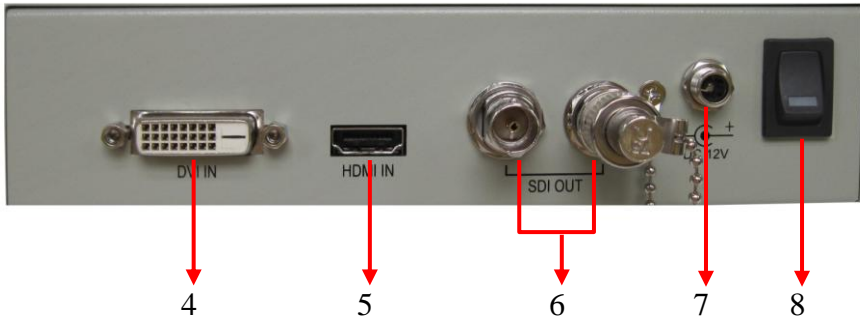
### 2. **DVI-D**

Select DVI-D to SDI Output formats

### 3. **SDI Outputs LED Indicators**

The LED will become active when the Output formats selected

## *Real Panel*



### **4. DVI-D IN**

The Input will accept a DVI-D input source (DVI-D source without the audio)

### **5. HDMI IN**

The Input will accept a HDMI input source (HDMI source with embedded audio)

### **6. SDI OUT**

The Output will accept and scaler Up/Down the SDI Source.

### **7. DV 12V**

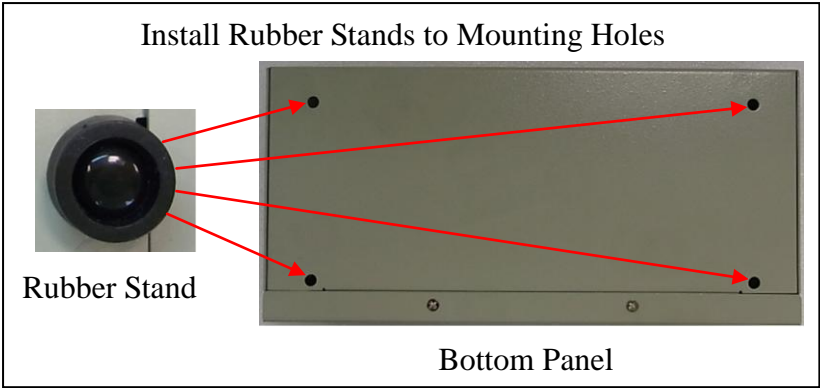
Locking 12V DC Power supply

### **8. Power Switch**

The switch ON/OFF will control the power.

# Installation

## *Stand Alone*

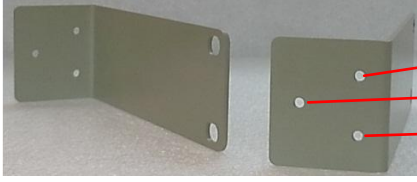


Stand Alone UDC-220

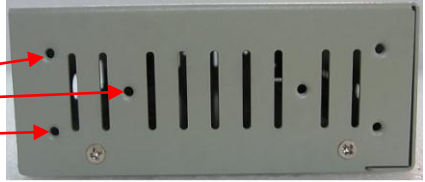


## *Rack Mount*

Install Rack Mount Ears to Mounting Holes



Rack Mount Ear



Side Panel



Rack Mount Ears locked into Side Panel



19" Rack Mount UDC-220

# Mechanical Dimension

