

VC486

12G-SDI to HDMI Converter



The VC486 is a 12G-SDI to HDMI 2.0 Converter that converts HD/3G/6G/12G-SDI input signals to an HDMI output in real time. It supports various transmission distances depending on different SDI formats, including 45 m (12G-SDI), 60 m (6G-SDI), 90 m (3G-SDI), and 150 m (HD-SDI), offering the flexibility for professional video projects. In addition, the converter works with ATEN VC486 Configuration Software, allowing users to configure the device's input, output, and audio settings with ease. The VC486 is a perfect choice for converting SDI signal to HDMI for applications such as broadcasting, medical imaging and industrial inspection.



Features

- Converts HD/3G/6G/12G-SDI input signals to an HDMI output in real time
- SDI signal re-clocked for high signal quality
- Supports SDI standard SMPTE-292/424/425-3/2081/2082
- Supports an SDI distance of up to 45 m (12G-SDI), 60 m (6G-SDI), 90 m (3G-SDI) and 150 m (HD-SDI)
- Supported SDI formats:
 - HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps)
 - 3G-SDI (SMPTE 424M, 425M level A and B, up to 2.97 Gbps)
 - 6G-SDI (SMPTE 2081-1, SMPTE 2081-10, up to 6 Gbps)
 - 12G-SDI (SMPTE 2081-1, SMPTE 2081-10, SMPTE 2082-1 and SMPTE 2082-10, up to 12 Gbps)
- Supports analog stereo audio output with RCA (R/L) connector
- Automatic detection of input video signals
- Analog Audio channel selection with a 8-step rotary switch
- Locking power connector

Specifications

Switches	
Audio EDID Selection	1 x rotary switch (8-steps)
Control	
USB	1 x Micro USB (FW upgrade)
Video Input	

Interfaces	1 x SDI (BNC connector, inter-locked socket)
Impedance	75 Ω
Video Output	
Interfaces	1 x HDMI (Type-A) Female 1 x SDI (BNC connector, inter-locked socket)
Impedance	HDMI 100 Ω / SDI 75 Ω
Video	
Max. Data Rate	12 Gbps
Supported Resolutions	720p50, 720p59.94, 720p60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60 , 1080PsF25, 1080PsF29.97, 1080PsF30 1080i50, 1080i59.94, 1080i60 2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p, 2K DCI 25PsF 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60 4K DCI 23.98p, 4K DCI 24p, 4K DCI 25p
Max. Distance	[12G-SDI] up to 45m [6G-SDI] up to 60m [3G-SDI] up to 90m [HD-SDI] up to 150m HDMI up to 3m (3840 X 2160@60Hz)
Audio	
Output	1 x HDMI (Type-A) Female 2 x RCA connector Female (R/L, analog audio)
Format	Compliance with HDMI 2.0 with 2 CH Audio
SDI Formats	HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps) 3G-SDI (SMPTE 424M, 425M level A, up to 2.97 Gbps) 6G-SDI (SMPTE 2081-1, SMPTE 2081-10, up to 6 Gbps) 12G-SDI (SMPTE 2081-1, SMPTE 2081-10, SMPTE 2082-1 and SMPTE 2082-10, up to 12Gbps)
Connectors	
Power	1 x DC 5V 3A, Lockable
Power Consumption	DC5V:5.69W:27BTU
Environmental	
Operating Temperature	0 - 40 $^{\circ}\text{C}$
Storage Temperature	-20 - 60 $^{\circ}\text{C}$
Humidity	20 - 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.65 kg (1.43 lb)

Dimensions (L x W x H)	18.20 x 12.96 x 2.87 cm (7.17 x 5.1 x 1.13 in.)
Carton Lot	5 pcs
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram

