



SDI-HDMI CONVERTER

SHD-450

SDI-HDMI Converter

HDMI

3G-SDI

HD-SDI

Model designation as per manufacturer reference

Overview

The VIZOBOX SHD-450 is a compact professional converter for reliable signal conversion between HDMI and SDI interfaces.

Key Features & Applications

- ✓ Datasheet SHD-450 SDI to HDMI Converter
- ✓ high bit rates of 2.970 G bit/s to give you fast signal transmission without any loss. For professionals this means that it
- ✓ displays thanks to the built in HDMI converter. Pure hardware design, scaler, Intelligent Identification, broadcast-grade
- ✓ A. It supports FULL HD1080P(3G-SDI) and backward 1080i/720P(HD-SDI) & 576i/480P (SD-SDI).
- ✓ C. Automatic input standard and format detection.
- ✓ E. Support eight channels of 48k sampling rate of digital audio SDI.
- ✓ Input interface: 1 x SDI (BNC), Loop output. Impedance:75 Ohm.
- ✓ Pixel bandwidth: 1.485Gbps HD-SDI and 2.97Gbps 3G-SDI.
- ✓ Minimum/maximum level:0.5V to 1.0 Vpp.
- ✓ Output interface: 1 x HDMI (A Type) Protocol: DVI1.0, HDMI1.3a, HDCP1.3
- ✓ The SDI to HDMI Converter allows SD-SDI, HD-SDI, and 3G-SDI signal to be shown on HDMI/SDI displays while ensuring
- ✓ is now easier to distribute and extend your 3G SDI signal while giving you the ability to display your work on HDMI
- ✓ circuit design.
- ✓ B. Low SDI jitter and SDI re-clocking means you can run long cable lengths without any loss of video quality.
- ✓ D. It supports SDI signal loop output.
- ✓ F. Wide power supply operating range (5V to 12V DC) and designed to work 24/7.
- ✓ Protocol: SMPTE 259M, SMPTE 292M, SMPTE 424M, ITU-R BT.601, ITU-R BT,1120.
- ✓ Signal strength:0.8Vp-p±10%.
- ✓ The recommended maximum distances: 3G-SDI 140m / HD-SDI: 200m
- ✓ Interface bandwidth: 2.25Gbps Fully digital (a total of6.75Gpbs, each color is2.25Gpbs)

Technical Specifications

Protocol	SMPTE 259M, SMPTE 292M, SMPTE 424M, ITU-R BT.601, ITU-R BT,1120.
Pixel bandwidth	1.485Gbps HD-SDI and 2.97Gbps 3G-SDI.
Signal strength	0.8Vp-p±10%.
Minimum/maximum level	0.5V to 1.0 Vpp.
SDI Input resolution	720p@50/60Hz, 1080i50/60Hz, 1080p@25/30/50/60Hz.
Output interface	1 x HDMI (A Type) Protocol: DVI1.0, HDMI1.3a, HDCP1.3
Interface bandwidth	2.25Gbps Fully digital (a total of6.75Gpbs, each color is2.25Gpbs)
DVI resolution	720p@50/60Hz, 1080i50/60Hz, 1080p@25/30/50/60Hz
Clock jitter	< 0.15 Tbit
Rise time	< 0.3 Tbit (20%--80%)
Fail time	< 0.3 Tbit (20%--80%)
Signal type	DVI -D/ HDMI digital T.M.D.S signal in DVI1.0/HDMI1.3a specification

Signal strength	T.M.D.S. 3.3V p-p
Minimum/maximum level	T.M.D.S. 2.9V/3.3V
Impedance	50 Ohm
Maximum DC offset error	±15mV
Power interface	1 x DC Jack 5.1-2.1mm.
Alternating current (AC)	110...220V 50/60Hz. Maximum power consumption: 5W.
Direct current (DC)	DC5...12V ±500mA.
Power supply	Matching UL plug, BS plug, VDE plug.
Compliance	CE, FCC.
ESD protection	- Contact discharge Level 3
- Executive standard	IEC61000-4-2
Temperature	Storage, Use temperature -25...80°C.
Humidity	Storage, Use humidity:0...95%.
Package box size	220 x 162 x 60mm (8.66" x 6.38" x 2.36")
Net weight	0.320kg Gross weight: 0.350kg
Device Weight	0.130kg. Material: Aluminum housing.
Dimension	120x 65 x 20mm (4.72" x 2.56" x 0.79")



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