

Datasheet SHD-450 SDI to HDMI Converter

BLANKOM



**SDI - HDMI
CONVERTER**

SHD-450

The **SDI to HDMI** Converter allows SD-SDI, HD-SDI, and 3G-SDI signal to be shown on HDMI/SDI displays while ensuring high bit rates of 2.970 G bit/s to give you fast signal transmission without any loss. For professionals this means that it is now easier to distribute and extend your 3G SDI signal while giving you the ability to display your work on HDMI displays thanks to the built in HDMI converter. Pure hardware design, scaler, Intelligent Identification, broadcast-grade circuit design.

Features

- A. It supports FULL HD1080P(3G-SDI) and backward 1080i/720P(HD-SDI) & 576i/480P (SD-SDI).
- B. Low SDI jitter and SDI re-clocking means you can run long cable lengths without any loss of video quality.
- C. Automatic input standard and format detection.
- D. It supports SDI signal loop output.
- E. Support eight channels of 48k sampling rate of digital audio SDI.
- F. Wide power supply operating range (5V to 12V DC) and designed to work 24/7.

Input interface: 1 x SDI (BNC), Loop output. Impedance:75 Ohm.

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.

The recommended maximum distances: 3G-SDI 140m / HD-SDI: 200m

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
The recommended maximum HDMI Cable length / distance: 10 m

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
- Air discharge Level 3
- Executive standard: IEC61000-4-2

MTBF Mean time between failures: 30000 hours

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")

