

HDSDI/SDI to HDMI/DVI Video Converter



Descriptions

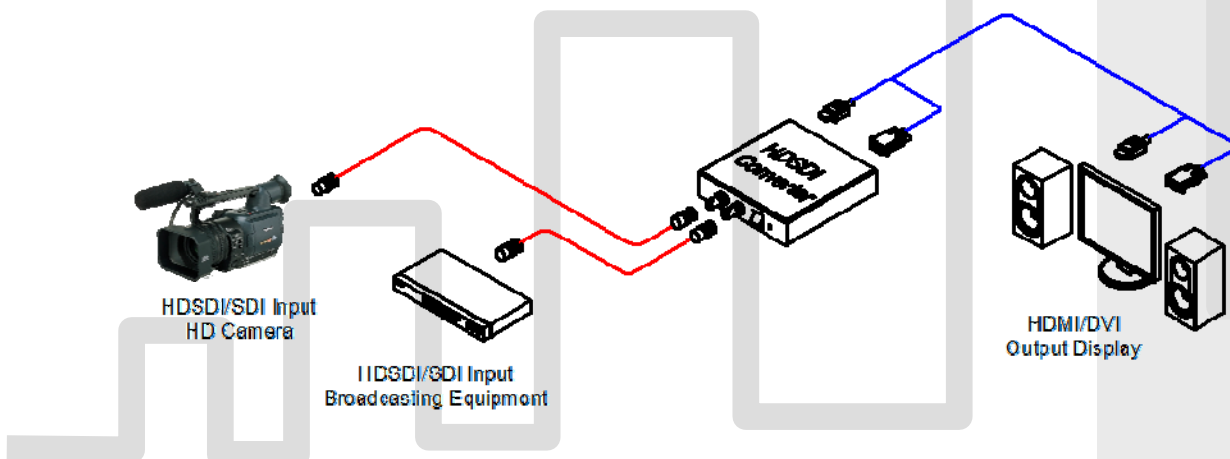
OPTICIS HD-SDI/SDI to HDMI/DVI converter, OSHC-01 converts video signal from SMPTE standard SD or HD-SDI signal to HDMI or DVI format. OSHC-01 is suitable for broadcasting and integrating into a professional video production system and small studio application.

The maximum input output resolutions are 1,920x1080 (1080p).

Once HD-SDI/SDI source is connected to the SDI input, converted into HDMI or DVI format. For monitoring uses, it has loop-through SDI port on input side. If HDMI and DVI displays are connected to output ports at the same time, HDMI has priority.

Key Features

- ◆ Converts HD-SDI/SDI to HDMI/DVI with embedded audio and time code.
- ◆ Supports SDI with YCbCr 4:2:2 HDMI/DVI output video format.
- ◆ Offers firmware updates through PS2 port.
- ◆ Performs fully digitized conversion without A/D or D/A converting.
- ◆ Includes HDMI and DVI output female connectors and two BNC input receptacles.
- ◆ Provides status indicators showing connection status.
- ◆ Supports I2S, 48 kHz audio formats.



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Supported Input/Output Resolutions

VIDEO INPUT	
Input Data Format	SMPTE format YCbCr(4:2:2)
Input Connector	SDI BNC
Input Signal Resolution	SMPTE-424M 1080p (60/59.94)
	SMPTE-274M 1080i (60/59.94/50)
	SMPTE-296M 1080p (25/24/23.976)
	SMPTE-260M 720p(60/59.94/50)
	SMPTE-259M 480i (59.94), 576i(50)
VIDEO OUTPUT	
Output Data Format	YCbCr(422)
Output Connector	DVI-I / HDMI female connector
Output Resolution	1080p(60/59.94), 1080i(60/59.94,50), 1080p(25/24/23.976) 720p(60/59.94/50), 480i(59.94), 576i(50)
AUDIO INPUT	
Input Data Format	I2S
Sampling Rate	48 kHz

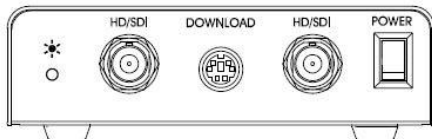
Specifications

Data rates and Resolution	
Input Video Bandwidth	2.97 Gbps
Maximum Input Resolution	1920x1080p/60Hz
Maximum Output Resolution	1920x1080p/60Hz
Mechanical Specifications	
DVI Connector	DVI-I 29 pin female (Digital only)
HDMI Connector	HDMI female
HD-SDI/SDI Connector	BNC female
Firmware Download Port	PS2 female
Power	+5V DC Toggle switch ON/OFF
Dimensions	117x105x33 mm

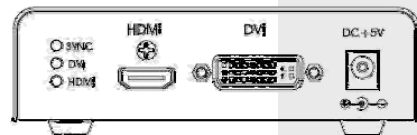
Recommended Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Temp.	T _A	10	25	+ 40	°C
Storage Temp.	T _s	-25		+ 60	°C
Storage Humidity	H _s	10		80	RH%

Panel Descriptions



- Power switch
- Power indicator LED
- PS2 port for firmware update
- HD-SDI input port
- HD-SDI loop-through port



- Status indicator LED
 - 1) Video sync detection LED
 - 2) DVI output connection status LED
 - 3) HDMI output connection status LED
- HDMI output port
- DVI output port
- 5V power jack

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All contents are subject to be changed without prior notice.