

HDMI/DVI to HDSDI/SDI Video Converter



Descriptions

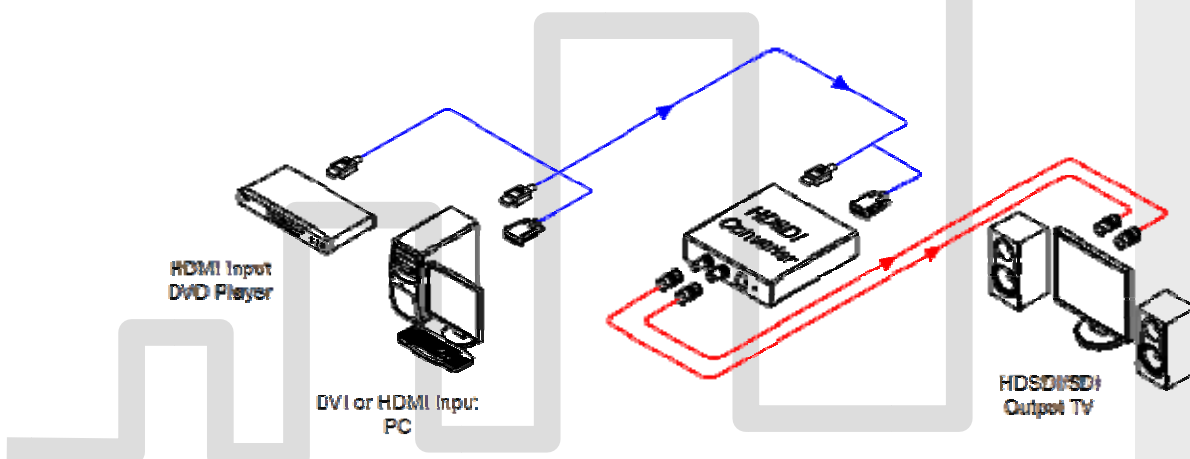
OPTICIS HDMI/DVI to HD-SDI/SDI converter, ODSG-01-HS converts high resolution HDMI or DVI sources to SMPTE standard HD or HD-SDI signal for broadcasting on air or integrating into a professional video production system. The maximum input output resolutions are 1,920x1080 (1080p).

Once HDMI or DVI source is connected to the HDMI or DVI input port, converted into HD-SDI format and transmitted to two HD-SDI outputs. (One HDMI or DVI to two HD-SDI conversion)

If HDMI and DVI sources are connected to input ports at the same time, HDMI has priority.

Key Features

- ◆ Converts HDMI or DVI to HD-SDI/SD with embedded audio and time code.
- ◆ 8/10/12bit resolution for greater precision and dynamic range.
- ◆ Supports RGB 4:4:4, YCbCr 4:4:4 or YCbCr 4:2:2 HDMI/DVI input video format.
- ◆ Offers firmware updates through PS2 port.
- ◆ Performs fully digitized conversion without A/D or D/A converting.
- ◆ Includes HDMI and DVI input female connectors and two BNC output 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	RGB(4:4:4), YCbCr(4:4:4), YCbCr(4:2:2)
Color Depth	8/10/12 bits
Input Signal Resolution	1080p (60/59.94/25/24/23.976)
	1080i (60/59.94/50)
	720p(60/59.94/50)
	480i (59.94)
576i (50)	
AUDIO INPUT	
Input Data Format	I2S
Sampling Rate	48 kHz
Input Channel	2 channels

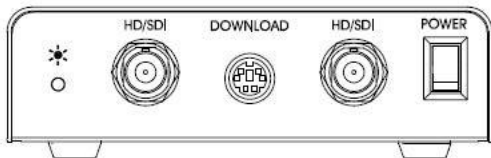
Recommended Operating Conditions

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	5		95	RH%

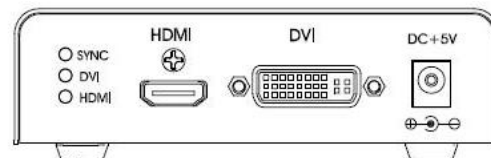
Specifications

Data rates and Resolution	
Output Video Bandwidth	2.97 Gbps
Maximum Input Resolution	1920x1080, 1080p
Maximum Output Resolution	1920x1080p
Mechanical Specifications	
DVI Connector	DVI-I 29 pin female (Digital only)
HDMI Connector	HDMI female
HDSDI/SDI Connector	BNC female
Firmware Download Port	PS2 female
Power	+5V DC Toggle switch ON/OFF
Dimensions	117x105x33 mm

Panel Descriptions



- Power switch
- Power indicator LED
- PS2 port for firmware update
- 2 x HD-SDI output ports



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