



) EY-HD/SD-SDI-HDMI

3G/HD/SD-SDI to HDMI Mini Converter

) PRODUCT DESCRIPTION

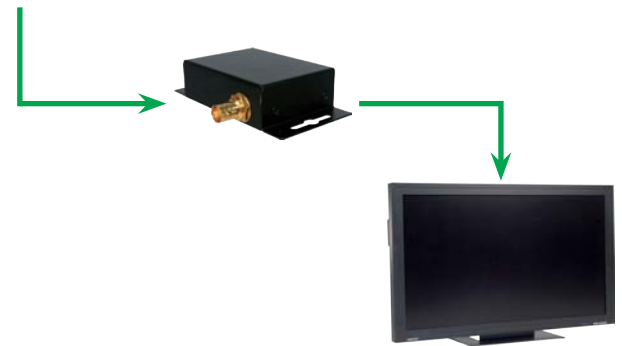
The EY-HD/SD-SDI to HDMI Converter provides a cost effective way to convert 3G/HD/SD-SDI signal to HDMI compliant format. The conversion between SDI and HDMI is pure digital and guarantees no loss transformation for both audio and video. Plus, with up to 8 channels audio support, 7.1 channel or 5.1 channel audio becomes available. The EY-HD/SD-SDI to HDMI is designed in the most compact size with the inter-lock power and mount ears.

-) Supported 3G formats (SMPTE 425M, Level A): 1080p @50/59.94/60Hz (4:2:2)
-) Supported high-definition (HD) formats: 1080i @50/59.94/60Hz, 1035i @50/59.94/60Hz, 720p @50/59.94/60Hz
-) Supported standard-definition (SD) formats: NTSC @59.94Hz, PAL @50Hz
-) Auto 3G/HD/SD-SDI detection
-) External DIP Switch Configuration

) EXAMPLE APPLICATION

HD/SD-SDI Source

-) TV Camera
-) HD/SD-SDI Player
-) HD/SD-SDI Recorder
-) ...



) SUPPORTED RESOLUTIONS

) 3G-SDI INPUT	
1080p @ 60/59.94/50Hz	SMPTE 425M (4:2:2)
) HD-SDI INPUT	
525p @ 59.94Hz	SMPTE 293M, ITU-BT.1358
625p @ 50Hz	ITU-BT.1358
720p @ 50Hz	SMPTE 296M -3
720p @ 60 / 59.94Hz	SMPTE 296M -1, -2
1080i @ 25Hz	SMPTE 274M -6
1080i @ 30 / 29.97Hz	SMPTE 274M -4, -5
1080p @ 24 / 23.98Hz	SMPTE 274M -10, -11
1080p @ 25Hz	SMPTE 274M -9
1080p @ 30 / 29.97Hz	SMPTE 274M -7, -8
) SD-SDI INPUT	
NTSC	
PAL B,D,G,H,I	

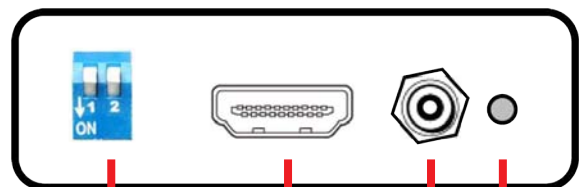
) ILLUSTRATION

Front view:



①
1. 3G/HD/SD-SDI Input

Back view:



② ③ ④ ⑤
2. DIP switch
3. HDMI output
4. Interlocked +5V power jack
5. Power LED indicator

) EY-3G/HD/SD-SDI-HDMI



3G/HD/SD-SDI to HDMI Mini Converter

) TECHNICAL SPECIFICATIONS

) Technical

SDI standards	SD-SDI, HD-SDI & 3G-SDI
Auto 3G/HD/SD-SDI detection	Yes
Video bandwidth	2.970Gpbs, 2.970/1.001Gbps
Video support	[3G] – 1080p @50/59.94/60Hz (4:2:2) [HD] – 720p @50/59.94/60Hz, 1035i @50/59.94/60Hz, 1080i @50/59.94/60Hz, 1080p @24/30Hz [SD] – NTSC @59.94Hz, PAL @50Hz
Input signal	[SD-SDI] SMPTE 259M [HD-SDI] SMPTE 292M, 296M [3G-SDI] SMPTE 424M/425M
Output signal	HDMI
Audio mode	7.1/5.1/Stereo
Eye pattern characteristics	Extra low alignment jitter 0.05UI at HD
Cable equalization	[3G-SDI] up to 60m (200ft) [HD-SDI] up to 150m (500ft) [SD-SDI] up to 300m (1000ft)
Loop-out	N/A
PCB stack-up	6-layer board [impedance control — differential 100Ω; single 50Ω]
Input	1x BNC [SDI]
Output	1x HDMI
BNC connector	3G 75Ω inter-locked socket
HDMI connector	Type A [19-pin female]
DIP switch	2-pin [audio format / 3G level]

) Mechanical

Housing	Metal case
Dimensions (L x W x H)	107 x 74 x 25mm [2.9" x 4.2" x 1"]
Weight	162g [5.7oz]
Fixedness	Inter-locked power supply
Power supply	5V 4A DC
Power consumption	3 Watts [max]
Operation temperature	0~40°C [32~104°F]
Storage temperature	-20~60°C [-4~140°F]
Relative humidity	20~90% RH [no condensation]
Package Contents	1x EY-HD/SD-SDI-HDMI Converter 1x 5V power adapter 1x User Manual



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As at: July 2010 • Subject to change!

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