DVI-I to SD/HD-SDI Converter

Models 1T-C2-520

1T-C2-520 is a high performance converter that transforms DVI-D 720p or 1080i HD signals to HD-SDI for broadcast and professional use. An analog YPbPr or RGBHV signal can also be converted to HD-SDI. It also converts a standard analog YUV signal at 525i or 625i to SD-SDI. No scaling is performed within the unit, so the input vertical rates must be exact, per the chart below. The 1T-C2-520 is controlled via front panel buttons and an on-screen display. The unit is housed in a Desktop metal case and an optional Single/Dual Rackmount Kit is available.

Key Features of the 1T-C2-520

- Full Digital Operation for SDI/HD-SDI Conversion
- Serial Digital Video Output up to 1.485Gbits/sec
- HD-SDI output resolution matches DVI input
- 525i/625i YUV converts to SD-SDI
- RS-232 Interface
- Optional Single/Dual Rackmount Kit available

Specifications

DVI-I Video Input	
DVI-D or RGBHV	1x via DVI-I Connector
Component Video Input	
YUV or YPbPr	1x via 3x BNC Connectors
SD/HD-SDI Video Output	
SMPTE259M @ 270Mb/s, SMPTE292M to 1485Mb/s	1x via BNC Connector
Video Processing	24 bit, 4:4:4
Output Resolutions	Per table below
Control Method	
Display	On screen display
Front Panel Buttons	Menu, Up, Down
Mechanical	
Size (HWD)	30x200x90mm(1.2"x7.87"x3.5")
Weight (Net)	0.54 kg (1.19 lbs)
Environmental	
Operating Temperature	0° to +50° C (+32° to +122° F)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	-10° to +70° C(+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing
Warranty	
Limited Warranty	2 Years Parts and Labor

Power Requirement	
External Power Supply	12VDC@1A - Locking DC
Regulatory Approvals	
Converter Unit	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS
Product Item Numbers	
1T-C2-520	DVI to SDI Converter
Accessories Included	
1x Power Adapter	US, UK or Euro
Operations Manual	
Optional Accessories	
RM-230	Single/Dual Rackmount Kit

Notes

(1) Resolutions not listed in the Table are not supported.
(2) No scaling is provided so the output resolution and vertical rate will match the input signal exactly.
(3) The output clock matches input clock with no jitter reduction, so input jitter is transferred to the output.
(4)Video input timing must correspond to SMPTE 259M/ 292M timing exactly or output will not be valid.

Input-Output Conversion Table

Digital Video Input Signal	Analog Video Input Signal	Output Signal
N/A	525-line interlaced YUV @ 29.97Hz	525-line SD-SDI @ 29.97Hz
N/A	625-line interlaced YUV @ 25Hz	625-line SD-SDI @ 25Hz
720-line progressive DVI-D @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz	720-line progressive RGBHV/YPbPr @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz	720p HD-SDI @ same frame rate as input
1080-line progressive DVI-D @ 23.98, 24, 25, 29.97, 30Hz	1080-line progressive RGBHV/YPbPr @ 23.98, 24, 25, 29.97, 30Hz	1080p HD-SDI @ same frame rate as input
1035-line interlaced DVI-D @ 29.97,30Hz	1035-line interlaced RGBHV/YPbPr @ 29.97, 30Hz	1035i HD-SDI @ same frame rate as input
1080-line interlaced DVI-D @ 25, 29.97, 30Hz	1080-line interlaced RGBHV/YPbPr @ 25 29.97, 30Hz	1080i HD-SDI @ same frame rate as input

Panel Drawings