

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.



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	5 Years Parts and Labor

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

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, Euro or AU

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 @ 59.94Hz	525-line SD-SDI @ 59.94Hz
N/A	625-line interlaced YUV @ 50Hz	625-line SD-SDI @ 50Hz
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 @ 59.94, 60Hz	1035-line interlaced RGBHV/YPbPr @ 59.94, 60Hz	1035i HD-SDI @ same frame rate as input
1080-line interlaced DVI-D @ 50, 59.94, 60Hz	1080-line interlaced RGBHV/YPbPr @ 50, 59.94, 60Hz	1080i HD-SDI @ same frame rate as input

Panel Drawings

