

# 1T-C2-520

## DVI-I to SD/HD-SDI Format Converter

### Key Features 1T-C2-520

- Full Digital SD/HD-SDI Conversion
- Serial Digital Video Output up to 1.485Gbits/sec
- HD-SDI out resolution matches DVI in
- 525i/625i YUV converts to SD-SDI
- RS-232 Interface
- Opt. Single/Dual Rackmount Kit available



**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 opposite. 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.

## Format Converters without Scaling

Distributor / Vertrieb:

**VIDELCO** – Professionelle Audio- Video- Medien-Technik!  
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## 1T-C2-520 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

### 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 Number

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.

### 1T-C2-520 In/Output Conversion Table

#### Digital Video Input Signal

N/A

N/A

720-line progressive DVI-D  
@ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz

1080-line progressive DVI-D  
@ 23.98, 24, 25, 29.97, 30Hz

1035-line interlaced DVI-D  
@ 29.97, 30Hz

1080-line interlaced DVI-D  
@ 25, 29.97, 30Hz

#### Analog Video Input Signal

525-line interlaced YUV @ 29.97Hz

625-line interlaced YUV @ 25Hz

720-line progressive RGBHV/YPbPr  
@ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz

1080-line progressive RGBHV/YPbPr  
@ 23.98, 24, 25, 29.97, 30Hz

1035-line interlaced RGBHV/YPbPr  
@ 29.97, 30Hz

1080-line interlaced RGBHV/YPbPr  
@ 25, 29.97, 30Hz

#### Output Signal

525-line SD-SDI @ 29.97Hz

625-line SD-SDI @ 25Hz

720p HD-SDI  
@ same frame rate as input

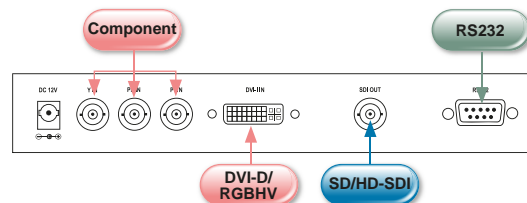
1080p HD-SDI  
@ same frame rate as input

1035i HD-SDI  
@ same frame rate as input

1080i HD-SDI  
@ same frame rate as input



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