

**1T-FC-524** converts analog RGBHV or Component YPbPr inputs to DVI signals, enabling their display on DVI or HDTV monitors or other devices. An analog YPbPr input can be converted to either digital YPbPr or RGBHV. An analog RGBHV input can be converted to digital RGBHV only.

**1T-FC-425** converts DVI to RGBHV or Component YPbPr, enabling viewing on analog displays or other devices. A DVI input can be converted to either analog RGBHV or YPbPr.

These units are Format Converters only and no video scaling takes place. The output resolution is the same as the input. All standard HDTV resolutions are supported on both products from 480p through 1080p, plus SDTV resolutions of 480i and 576i. PC resolutions up to 1600x1200 are supported. Both models are 5VDC powered and the Power Adapters are included. Locking DC Connectors are provided for security.



## Key Features of 1T-FC-524 and 1T-FC-425

- Analog to Digital or Digital to Analog
- HDTV resolutions to 1080p
- SDTV resolutions of 480i and 576i
- PC resolutions up to 1600x1200
- Plug and Play for Easy Installation
- DVI Bandwidth to 1.65Gbps (Single Link)
- Operation Frequency to 165Mhz

## Specifications

### Video Inputs

1T-FC-524	1x RGB/YPbPr via HD-15
1T-FC-425	1x DVI-D via DVI-I Connector

### Video Outputs

1T-FC-524	1x DVI-D via DVI-I Connector
1T-FC-425	1x RGBHV/YPbPr via HD-15

### Component Signal I/O

Y Component	1V p-p@75Ω
Pb/Pr Component	0.7V p-p@75Ω

### RGBHV Signal I/O

R-G-B	0.7V p-p@75Ω
HV Sync	3-5V p-p@75Ω

### Frequency and Bandwidth

Frequency	Up to 165Mhz
DVI Bandwidth	1.65Gbps (Single Link)

### PC I/O Resolutions

VGA	640x480	60, 72, 75, 85Hz
SVGA	800x600	60, 72, 75, 85Hz
XGA	1024x768	60, 70, 75, 85Hz
Mac	1152x864	70, 75, 85Hz
SXGA	1280x1024	60, 75, 85Hz
UXGA	1600x1200	60Hz

### SDTV I/O Resolutions

480i	720x480	60Hz (NTSC)
576i	720x576	50Hz (PAL)

### HDTV I/O Resolutions

480p	720x480	60Hz
576p	720x576	50Hz
720p	1280x720	50, 60Hz
1080i	1920x1080 (i)	50, 60Hz
1080p	1920x1080 (p)	24, 25, 30, 60Hz

### 1T-FC-524 Input Format Switch

YPbPr	Select when the input is YPbPr
RGBHV	Select when the input is RGBHV

### 1T-FC-524 Output Format Switch

Analog Input	Setting	Output Signal
YPbPr	Bypass or RGB	Digital YPbPr or RGB
RGBHV	Bypass or RGB	Digital RGB Only

### 1T-FC-425 Output Format Switch

Digital Input	Setting	Output Signal
YPbPr	YPbPr	Analog YPbPr
RGBHV	RGBHV	Analog RGBHV

### Compliance

DVI	Rev 1.0
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### Mechanical

Size (H-W-D)	30x76x105mm (1.2"x3"x4.1")
Weight (Net)	200 g (0.43 lbs)

### Warranty

Limited Warranty	3 Years Parts and Labor
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### Environmental

Operating Temperature	0° to +50° C (+32° to +122° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	10% to 90%, Non-condensing

### Power Requirement

External Power Supply	5VDC@2A
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### Regulatory Approvals

Converter Unit	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS

### Accessories Included

1x Power Adapter	US, UK or Euro
1x Adapter Cable	HD-15 to 3 RCA

### Product Item Numbers

1T-FC-524	RGBHV/YPbPr to DVI
1T-FC-425	DVI to RGBHV/YPbPr

## Panel Drawings

