

Key Features 1T-VS-624

- HDMI v1.2, HDCP 1.1, DVI 1.0 Compliant
- Input: VGA through WUXGA
- Output: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
- Automatically Detects HDMI Display Resolution
- Video Level Adjustments
- Supports embedded and external audio in and out
- Locking DC Power Adapter

Key Features 1T-VS-622

- HDMI v1.2, HDCP 1.1, DVI 1.0 Compliant
- Input: Composite or S-Video, 480i or 576i
- 3-D De-interlacing, 3:2/2:2 Pull Down Detection
- Output: HD to 1080p, PC to WUXGA
- Automatically Detects HDMI Display Resolution
- Video Level Adjustments
- Supports embedded and external audio in and out
- Locking DC Power Adapter

Key Features 1T-VS-434

- Ultra Compact, High Performance Unit
- Cross Convert between PC and HD resolutions
- PC Output Resolutions up to 1920x1200
- HD Output Resolutions up to 1080p
- Locking DC Power adaptor

1T-VS-624

RGB to HDMI Scaler

1T-VS-624 RGB to HDMI Scaler will convert a wide variety of standard PC (RGB) signals between VGA and WUXGA to a standard HDMI output at PC, SD or HD resolutions.



1T-VS-622

Video to HDMI Scaler

1T-VS-622 Video to HDMI Scaler will convert either Composite or S-Video Standard Definition analog signals to an HDMI output at PC, SD or HD resolutions.



These units are HDCP compliant and DVI compatible and are ideal for situations where standard definition analog signals must be viewed on an HDMI display. The resolution of the attached displays are automatically discovered by the units. A comprehensive OSD menu allows manual selection of output resolution, adjustments of picture quality and audio input selection. Locking DC power connectors are used for security.

In addition, externally available audio can be embedded into the output HDMI signal via separate Toslink and Analog Stereo inputs. Output audio, embedded in the HDMI signal, is separately available as Toslink and Analog Stereo outputs providing maximum flexibility for systems integration.

1T-VS-434

PC/HD Cross Converter

1T-VS-434 PC/HD Cross Converter is a Cross Format Scaler for PC and HD formats and resolutions. The input resolution is automatically detected and can either be RGBHV or YPbPr format. Output Resolutions up to 1920x1200 and 1080p are accommodated. In addition to converting between PC and HD, the unit can take a 480i Component Video signal (from a DVD Player for example) and convert it to PC or HD resolutions. The output resolution and refresh rate is selected via push buttons on an On Screen Display. The integral processor provides control over many signal parameters, such as: Contrast, Brightness, Color Saturation, Sharpness, R-G-B Levels and Aspect Ratio.

The unit is 5VDC powered and the included Power Adapter features a locking DC Connector for security



1T-VS-624 Specifications

Video Input/Output

PC RGB Video Input	1x Via HD-15 Connector
HDMI Output	1x Via Type A Connector

Video Performance

Standards Compliance HDMI v1.2, HDCP 1.1, DVI 1.0

Input Resolutions

PC (RGB)	VGA	640x480 @ 60, 72, 75, 85Hz
Resolutions	SVGA	800x600 @ 56, 60, 72, 75, 85Hz
	XGA	1024x768 @ 60, 70, 75, 85Hz
	SXGA	1280x1024 @ 60, 75, 85Hz
	UXGA	1600x1200 @ 60Hz
	WXGA	1280x800 @ 60Hz
	WSXGA	1680x1050 @ 60Hz
	WUXGA	1920x1200 @ 60Hz

Output Resolutions

HDMI PC	VGA	640x480 @ 60Hz
Resolutions	SVGA	800x600 @ 60Hz
	XGA	1024x768 @ 60Hz
	SXGA	1280x1024 @ 60Hz
	UXGA	1600x1200 @ 60Hz
	WXGA	1280x800 @ 60Hz
	WSXGA	1680x1050 @ 60Hz
	WUXGA	1920x1200 @ 60Hz
HDMI HDTV	480p	852x480 @ 60Hz
Resolutions	576p	852x576 @ 50Hz
	720p	1280x720 @ 50, 60Hz
	1080i	1920x1080 (i) @ 50, 60Hz
	1080p	1920x1080 (p) @ 50, 60Hz
HDMI SDTV	480i	852x480 @ 60Hz
Resolutions	576i	852x576 @ 50Hz
Video Adjustments		Contrast, Brightness, Hue, Sharpness, Saturation, R-G-B Levels, Aspect Ratio

Audio Inputs/Outputs

Analog Stereo Input	1x via 3.5mm Mini-Stereo
Analog Stereo Output	1x via 3.5mm Mini-Stereo
Digital Input	1x SPDIF via Toslink Connector
Digital Output	1x SPDIF via Toslink Connector

Stereo Audio Performance

Analog Input Level	2Vrms max @ 47KΩ
Analog Output Level	Unity @ 47KΩ
Toslink In/Output Level	Standard Toslink level

Mechanical

Size (H-W-D)	25x102x145mm (1x4x5.7")
Weight (Net)	340g (12oz)

Warranty

Limited Warranty 2 Years Parts and Labor

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

Regulatory Approvals

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

Accessories Included

1x AC Power Adapter	US, UK or Euro
1x Operations Manual	

Model Number

1T-VS-624 RGB to HDMI Scaler

1T-VS-622 Specifications

Video Input

Composite	1x via RCA Connector
S-Video	1x via 4-Pin Mini-DIN
TV Standards	NTSC (480i), PAL (576i)

Video Output

HDMI Output 1x Via Type A Connector

Output Resolutions

HDMI PC	VGA	640x480 @ 60Hz
Resolutions	SVGA	800x600 @ 60Hz
	XGA	1024x768 @ 60Hz
	SXGA	1280x1024 @ 60Hz
	UXGA	1600x1200 @ 60Hz
	WXGA	1280x800 @ 60Hz
	WSXGA	1680x1050 @ 60Hz
	WUXGA	1920x1200 @ 60Hz
HDMI HDTV	480p	852x480 @ 60Hz
Resolutions	576p	852x576 @ 50Hz
	720p	1280x720 @ 50, 60Hz
	1080i	1920x1080 (i) @ 50, 60Hz
	1080p	1920x1080 (p) @ 50, 60Hz
HDMI SDTV	480i	852x480 @ 60Hz
Resolutions	576i	852x576 @ 50Hz

Video Performance

Standards Compliance HDMI v1.2, HDCP 1.1, DVI 1.0

Video Processing 3-D Motion Adaptive, 3-D de-interlacing, 3:2/2:2 Pull Down Detection/Recovery

Video Adjustments Contrast, Brightness, Hue, Sharpness, Saturation, R-G-B Levels, Picture Size

Audio Inputs/Outputs

Analog Stereo Input	2x via RCA Connector
Analog Stereo Output	1x via 3.5mm Mini-Stereo
Digital Input (Note 1)	1x SPDIF via Toslink Connector
Digital Output	1x SPDIF via Toslink Connector

Stereo Audio Performance

Analog Input Level	2Vrms max @ 47KΩ
Analog Output Level	Unity @ 47KΩ
Toslink In/Output Level	Standard Toslink level
Stereo Bandwidth	20Hz to 20 KHz

Mechanical

Size (H-W-D)	25x102x145mm (1x4x5.7")
Weight (Net)	405g (14.2oz)

Warranty

Limited Warranty 2 Years Parts and Labor

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@2.6A

Regulatory Approvals

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

Accessories Included

1x AC Power Adapter	US, UK or Euro
1x Operations Manual	

Model Number

1T-VS-622 Video to HDMI Scaler

Notes

(1) Toslink Audio is limited to 2.0 LPCM

1T-VS-434 Specifications

Input Resolutions

VESA	Resolution	Refresh Rate
VGA	640x480	RGBHV 60, 72, 75, 85Hz
SVGA	800x600	RGBHV 56, 60, 72, 75, 85Hz
XGA	1024x768	RGBHV 60, 70, 75, 85Hz
WXGA	1280x768	RGBHV 60Hz
SXGA	1280x1024	RGBHV 60, 75, 85Hz
WSXGA	1680x1050	RGBHV 60Hz
UXGA	1600x1200	RGBHV 60Hz
WUXGA	1920x1200	RGBHV 60Hz
480i	720x480 NTSC	YPbPr 60Hz
576i	720x576 PAL	YPbPr 50Hz
1080i	1920x1080	YPbPr 50, 60Hz
480p	720x480	RGBHV, YPbPr 60Hz
576p	720x576	RGBHV, YPbPr 50Hz
720p	1280x720	RGBHV, YPbPr 50, 60Hz
1080p	1920x1080	RGBHV, YPbPr 50, 60Hz

Output Resolutions

VESA	Resolution	Refresh Rate
VGA	640x480	RGBHV 60Hz
SVGA	800x600	RGBHV 60Hz
XGA	1024x768	RGBHV 60Hz
WXGA	1280x768	RGBHV 60Hz
SXGA	1280x1024	RGBHV 60Hz
WSXGA	1680x1050	RGBHV 60Hz
UXGA	1600x1200	RGBHV 60Hz
WUXGA	1920x1200	RGBHV 60Hz
480i	720x480 NTSC	YPbPr 60Hz
576i	720x576 PAL	YPbPr 50Hz
1080i	1920x1080	YPbPr 50, 60Hz
480p	720x480	YPbPr 60Hz
576p	720x576	YPbPr 50Hz
720p	1280x720	YPbPr 50, 60Hz
1080p	1920x1080	YPbPr 50, 60Hz

Input & Bypass

RGBHV, YPbPr 2x via HD-15 Connector

Output

RGBHV, YPbPr 1x via HD-15 Connector

Picture Controls

Output Signal Brightness, Contrast, Color, Saturation, Sharpness, R-G-B Levels, Aspect Ratio

Mechanical

Size (H-W-D)	25x102x157mm (.98"x4.16"x6.18")
Weight (Net)	332g (0.73lbs)

Warranty

Limited Warranty 2 Years Parts and Labor

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 – Locking DC

Regulatory Approvals

Amplifier Units	FCC, CE, RoHS
Power Supplies	UL, CUL, CE, PSE, GS, RoHS

Accessories Included

1x Power Adapter	US, UK or Euro
1x Operations Manual	

Model Number

1T-VS-434 PC/HD Cross Converter

