

# YPbPr to DVI-D/HDMI PRO FORMAT CONVERTER

Vaddio™ Professional Quality Analog Component to DVI-D Format Converter  
Part Numbers: 999-5643-000 - North America, 999-5643-001 - International

In a perfect world, every analog component to digital video format converter would work exactly the same, producing equal quality video at the output as from the input. Well, the world is not exactly perfect when it comes to mass production of electronics and the single-minded goal of producing the cheapest product for the mass market.

At Vaddio, we understand the need for less expensive products for home and budget use, but we also know what differentiates our professional products from the rest. Vaddio insists that the electronic components we use are the newest and highest quality components available today and no short cuts are taken when it comes to the integrity of the Vaddio digital video products.

YPbPr to DVI-D/HDMI PRO Format Converter features the finest analog component decoder (decoding analog signals to 10-bit color digital signals) and one of the newest high speed HDMI transmitters at the output ensuring compatibility with HDMI and DVI-D while supporting all HDTV Formats. To further improve the performance of the PRO Format Converter, an FPGA was added to guarantee that the image appears on the HDTV in the proper alignment making this product extremely easy to install and use. When professional quality format conversion for an analog to digital video application, whether it be from a camera, a video switcher/console or any other analog video source, the YPbPr to DVI-D/HDMI PRO Format Converter is a remarkable choice for a wide range of applications.

## WHAT'S INCLUDED

- YPbPr to DVI-D/HDMI PRO Format Converter
- 12V, 1.0 PowerRite™ Power Supply
- AC Cord Set
- Documentation

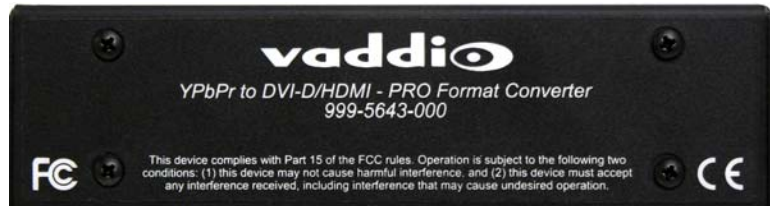
## TECHNICAL FEATURES

### Components

The YPbPr to DVI-D/HDMI PRO Format Converter was designed and built from the ground up at Vaddio, in the USA, and only the best possible components, parts and metals were used to ensure the quality of the video image out is as good as the video image in.

### 1/3 Rack Width Size

YPbPr to DVI-D/HDMI PRO Format Converter is sized so three (3) converters can be racked into a single rack space with an optional rack mount adapter panel.



**Figure 1:** Front Panel of the PRO Format Converter (1/3 Width Enclosure - Optional Accessory Rack Mount Panel Available)



**Figure 2:** Rear Panel of the PRO Format Converter (1/3 Rack Width Enclosure)

### The Fine Points

The PRO Format Converter uses a 225 MHz HDMI v1.3 and DVI-D v1.0 transmitter and incorporates Deep Color and x.v.Color™ with resolutions up to 1080p60 Hz. The PRO Format Converter provides 30-bit YCbCr output and combined with the analog to digital decoder (at the input) a full 10-bit color IN and OUT is the impressive result. One of the best things about this converter is that it doesn't add another scaler to a system with many scalers in the signal path.

### Easy and Automatic Operation

The PRO Format Converter will automatically receive the YPbPr clock frequency and will auto position the digital HDTV signal without the need to set resolutions or positions - it's automatic.

### Designed and Made in the USA

Did we mention that this PRO format Converter was conceived, designed, and manufactured in the USA, specifically in the Minneapolis - St. Paul metropolitan area? Well, now we did.

## TECHNICAL IMAGES

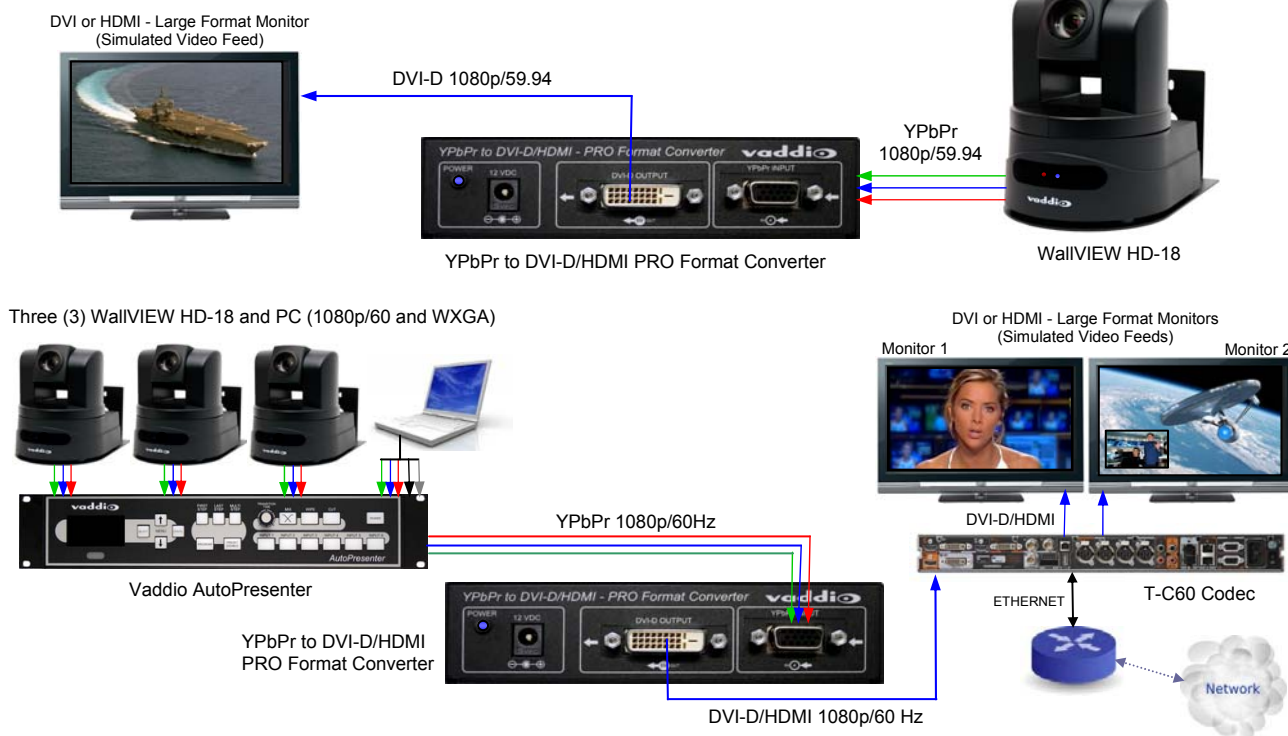
Figure 3: YPbPr to DVI-D/HDMI PRO Format Converter - Rear Panel Image with Functional Callouts



- 1) Vaddio Blue LED Power Indicator, Lit when power supply is plugged in.
- 2) Power Input: 12 VDC, 1.0 Amp Power Connection, 5.5mm OD x 2.5mm ID, Positive Center
- 3) DVI-D Output (HDMI with optional adapter cable) supports digital HD video outputs up to 1080p/60Hz
- 4) DE-15 Input (15-pin High Density - E size shell) supports analog (YPbPr) HD video inputs up to 1080p/60Hz
- 5) Rugged steel enclosure for supporting mobile applications

## SYSTEM CONNECTIVITY

Figure 4: Basic System Configurations using the YPbPr to DVI-D/HDMI PRO Format Converter



## TECHNICAL SPECIFICATIONS

| YPbPr to DVI-D/HDMI PRO Format Converter |  |
|--|--|
| <b>Part Numbers</b>                      | 999-5643-000 - North America, 999-5643-001 - International (with UK and Euro AC Cord Set)  |
| <b>Connectors</b>                        | Vaddio Blue LED "Power" Indicator, 5.5mm OD and a 2.5mm ID Coaxial Power Connector, DVI-D Female with female jack nuts and DE-15-F with female jack nuts (high density 15-pin D-SUB receptacle - R/A PCB mount)            |
| <b>Video Resolutions Supported</b>       | 1080p/60, 1080p/50, 1080p/30, 1080p/25, 1080i/59.94, 1080i/50, 720p/59.94, 720p/50, 480i/29.97, 576i/25<br>Audio is not supported, mainly because the molecular image resonator was too fast for the audio signal pathway. |
| <b>Power Supply</b>                      | 12 VDC, 1.0 Amp PowerRite Power Supply included  |
| <b>Dimensions (H x W x D)</b>            | 1.47" (37.34mm) H x 5.5" (139.7mm) W x 4.5" (114.3mm) D, (1/3 Rack Size)   |
| <b>Weight</b>                            | 1.3 lbs. (0.589670081 kg, roughly)   |
| <b>Accessory Options</b>                 | 998-6000-002 1-RU Triple Rack Mount Plate, 440-5643-001 - 1m (3.3') DVI-D Male to HDMI Male Cable, 440-5643-003 - 3m (10') DVI-D Male to HDMI Male Cable   |