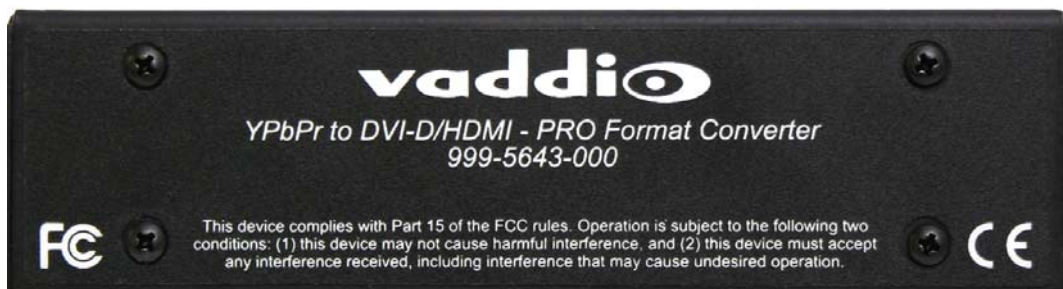


# VADDIO™ YPbPr to DVI-D/HDMI - PRO FORMAT CONVERTER

**Part Numbers:**

999-5643-000 North America

999-5643-001 International



**Overview:**

The Vaddio YPbPr to DVI-D/HDMI - PRO Format Converter is simple, robust, transparent and professional in every regard. 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 the mass production of electronics with the often single minded goal of producing the cheapest product for the mass market.

The PRO Format Converter is a professional quality format converter (as the name suggests), is not a scaler and will not fight either the video source or display devices. In fact, one of the best things about the PRO Format Converter is that it doesn't add another scaler to a system that may have several scalers already in the signal path.

The Converter uses only the best possible components, parts and metals to ensure the quality of the video image out is as good as the video image in. It contains a 225 MHz HDMI v1.3 and (DVI-D v1.0 compliant) transmitter and incorporates Deep Color and x.v.Color™ easily supporting resolutions up to and including 1080p/60 with 10-bit color.

The 1/3-rack size YPbPr to DVI-D/HDMI - PRO Format Converter was designed and built from the ground up at Vaddio, in the USA. So, when professional quality format conversion for an analog to digital video application is required, 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.

#### Intended Use:

Before operating the system, please read the entire manual thoroughly. The system was designed, built and tested for use indoors, and with the provided power supply. The use of a power supply other than the one provided or outdoor operation has not been tested and could damage the camera and/or create a potentially unsafe operating condition.

#### Save These Instructions:

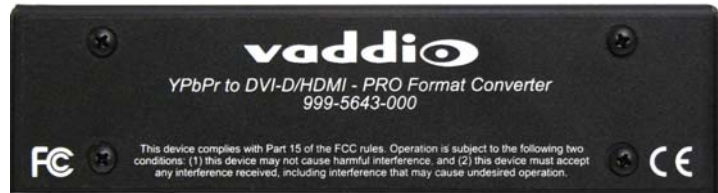
The information contained in this manual will help you install and operate your system. If these instructions are misplaced, Vaddio keeps copies of Specifications, Installation, User Guides and the most pertinent product drawings on the Vaddio website. These documents can be downloaded from [www.vaddio.com](http://www.vaddio.com) free of charge.

#### Important Safeguards:

Read and understand all instructions before using. Do not operate any device if it has been dropped or damaged. In this case, a Vaddio technician must examine the product before operating. To reduce the risk of electric shock, do not immerse in water or other liquids and avoid extremely humid conditions.



**Use only the 12 VDC, 1.0 Amp power supply provided with the YPbPr to DVI/HDMI PRO Format Converter. Use of any unauthorized power supply will void any and all expressed or implied warranties.**



YPbPr to DVI-D/HDMI PRO Format Converter Front Panel



YPbPr to DVI-D/HDMI PRO Format Converter Rear Panel Connections  
YPbPr IN, DVI-D/HDMI OUT, Power Input and LED

#### Unpacking:

Carefully remove all of the parts from the shipping box. Unpack and identify the following parts for the YPbPr to DVI-D/HDMI - PRO Format Converter:

- One (1) YPbPr to DVI-D/HDMI - PRO Format Converter
- One (1) 12 VDC, 1.0 Amp PowerRite™ Power Supply with AC Cord Set
- Documentation

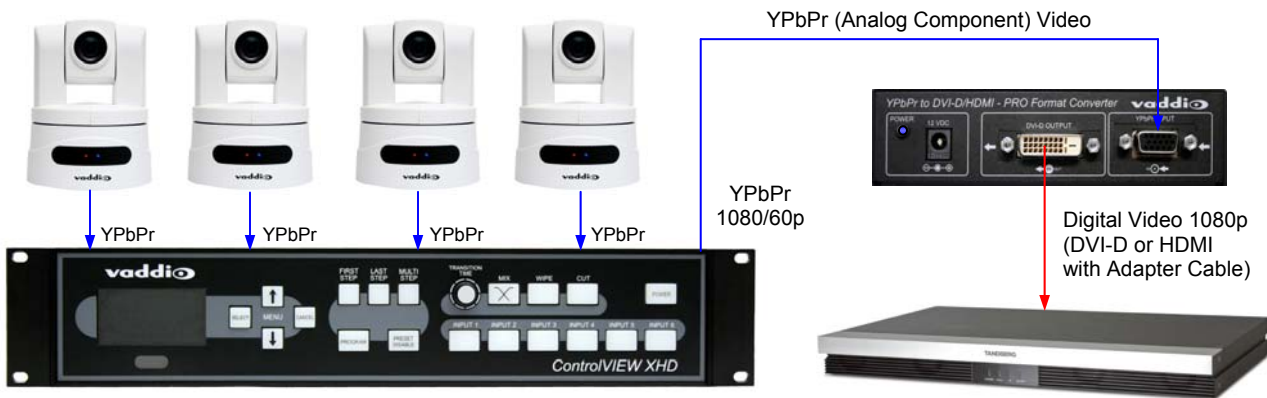
**The YPbPr to DVI-D/HDMI - PRO Format Converter Connections:**



- 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/HDMI Output:** Digital video output (same resolution as the input), use either a DVI-D cable or DVI-D to HDMI adapter cable
- 4) **YPbPr Input Port:** Analog component video input

**Basic Connectivity:**

Four (4) HD-18 Analog HD Cameras to ControlVIEW XHD (6x1 Mixer/Switcher) Analog HD Video out to YPbPr to DVI-D/HDMI - PRO Format Converter, Digital Output (same resolution) to Codec



**General 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<br>DVI-D Female with female jack nuts, DE-15-F with female jack nuts (high density 15-pin D-SUB receptacle) |
| <b>Video Resolutions Supported</b>         | 1080p/60, 1080p/50, 1080p/30, 1080p/25, 1080i/59.94fps, 1080i/50fps, 720p/59.94, 720p/50, 480i/29.97fps, 576i/25fps (Audio, copy protect and resonant particle transducer are not supported)   |
| <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, in rough numbers)  |
| <b>Accessory Options</b>                   | 998-6000-002 1-RU Triple Rack Mount Plate<br>440-5643-001 - 1m (3.3') DVI-D Male to HDMI Male Cable<br>440-5643-003 - 3m (10') DVI-D Male to HDMI Male Cable                                   |



**Warranty Information** (See Vaddio's Warranty Policies posted on vaddio.com for complete details):

**Hardware\* Warranty:** One year limited warranty on all parts. Vaddio warrants this product against defects in materials and workmanship for a period of one year from the day of purchase from Vaddio. If Vaddio receives notice of such defects during the warranty period, they will, at their option, repair or replace products that prove to be defective.

**Exclusions:** The above warranty shall not apply to defects resulting from: improper or inadequate maintenance by the customer, customer applied software or interfacing, unauthorized modifications or misuse, operation outside the normal environmental specifications for the product, use of the incorrect power supply, improper extension of the power supply cable or improper site operation and maintenance.

**Vaddio Customer Service:** Vaddio will test, repair, or replace the product or products without charge if the unit is under warranty and is found to be defective. If the product is out of warranty, Vaddio will test then repair the product or products. The cost of parts and labor charge will be estimated by a technician and confirmed by the customer prior to repair. All components must be returned for testing as a complete unit. Vaddio will not accept responsibility for shipment after it has left the premises.

**Vaddio Technical Support:** Vaddio technicians will determine and discuss with the customer the criteria for repair costs and/or replacement. Vaddio Technical Support can be contacted through one of the following resources: e-mail support at [support@vaddio.com](mailto:support@vaddio.com) or online at [www.vaddio.com](http://www.vaddio.com).

**Return Material Authorization (RMA) Number:** Before returning a product for repair or replacement, request an RMA from Vaddio's technical support. Provide a technician with a return phone number, e-mail address, shipping address, and product serial numbers and describe the reason for repairs or returns as well as the date of purchase and proof of purchase. Include your assigned RMA number in all correspondence with Vaddio. Write your assigned RMA number on the outside of the box when returning the product. All returns are subject to a restocking fee (see warranty policies at [vaddio.com](http://vaddio.com)).

**Voided Warranty:** The warranty does not apply if the original serial number has been removed or if the product has been disassembled or damaged through misuse, accident, modifications, or unauthorized repair. Cutting the power supply cable on the secondary side (low voltage side) to extend the power to the device (camera or controller) voids the warranty for that device.

**Shipping and Handling:** Vaddio will not pay for inbound shipping transportation or insurance charges or accept any responsibility for laws and ordinances from inbound transit. Vaddio will pay for outbound shipping, transportation, and insurance charges for all items under warranty but will not assume responsibility for loss and/or damage by the outbound freight carrier.

If the return shipment appears damaged, retain the original boxes and packing material for inspection by the carrier. Contact your carrier immediately.

**Products Not Under Warranty:** Payment arrangements are required before outbound shipment for all out of warranty products.

\*Vaddio manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry standard practices.

#### **Other General Information:**

##### **Care and Cleaning**

Do not attempt to take this product apart at any time. There are no user-serviceable components inside.

- Do not spill liquids or liquid type substances onto the device.
- Keep this device away from food or liquid.
- For smears or smudges on the devices, wipe with a clean, soft cloth.
- Do not use any abrasive pads or caustic chemicals at any time on any Vaddio equipment.

##### **Operating and Storage Conditions:**

Do not store or operate the device under the following conditions:

- Temperatures above 40°C (104°F) or temperatures below 0°C (32°F)
- High humidity, condensing or wet environments
- In inclement weather
- Dusty environments
- In a swimming pool or in a bear cave
- Dry environments with an excess of static discharge
- Under severe vibration

## **Compliance and CE Declaration of Conformity**

**Compliance testing was performed to the following regulations:**

- |  |         |
|--|---------|
| • <b>FCC Part 15, Subpart B</b>                              | Class A |
| • <b>ICES-003, Issue 4: 2004</b>                             | Class A |
| • <b>EN 55022 A: 2006 + A1: 2007(CISPR 22:2005/A1:2005)</b>  | Class A |
| • <b>AS/NZS CISPR 22: 2009</b>                               | Class A |
| • <b>VCCI V-3/2010.04</b>                                    | Class A |
| • <b>Korean Requirements KN22: KCC Notice Number 2009-27</b> | Class A |
| • <b>EMC Directive 2004/108/EC</b>                           | Class A |


**FCC Part 15 Compliance**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15, Subpart B, of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference including interference that may cause undesired operation of the device.

Changes or modifications not expressly approved by Vaddio can affect emission compliance and could void the user's authority to operate this equipment.


**ICES-003 Compliance**

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.


**European Compliance**

This product has been evaluated for Electromagnetic Compatibility under the EMC Directive for Emissions and Immunity and meets the requirements for a Class A digital device. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

**Standard(s) To Which Conformity Is Declared:**

EMC Directive 2004/108/EC

EN 55024: 1998 + Amendments A1: 2001 + A2: 2003

- EN 61000-4-2: 1995 + Amendments A1: 1998 + A2: 2001
- EN 61000-4-3: 2006 + A1: 2008
- EN 61000-4-4: 2004 + Corrigendum 2006
- EN 61000-4-5: 2006
- EN 61000-4-6: 2007
- EN 61000-4-8: 2010
- EN 61000-4-11: Second Edition: 2004

Immunity

Electrostatic Discharge

Radiated Immunity

Electrical Fast Transients

Surge Immunity

Conducted Immunity

Power Frequency Magnetic Field

Voltage Dips, Interrupts and Fluctuations

**Korean Requirements:**

- EN 61000-4-2 with KCC Notice No. 2009-27
- EN 61000-4-3 with KCC Notice No. 2009-27
- EN 61000-4-4 with KCC Notice No. 2009-27
- EN 61000-4-5 with KCC Notice No. 2009-27
- EN 61000-4-6 with KCC Notice No. 2009-27







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