VOPEX® Series

VOPEX-HDS-x
2, 4, 8, or 16 Port HDMI Splitter
Installation and Operation Manual

Front and Rear Views of VOPEX-HDS-4

TRADEMARK

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CHANGES

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INTRODUCTION

The VOPEX-HDS-x HDMI splitter (x= 2, 4, 8 or 16) enables HDMI displays (monitors, HDTV (LCD, PDP), projectors) to be driven by a single digital HDMI source (PC, Cable box, DVD player, Satellite receiver) with no loss of signal. The VOPEX-HDS-x is available with 2,4,8 or 16 output ports.

Features:

- Ideal for presentations.

- Connects HDTV or computer HD video source to multiple HDTV compatible displays or projectors.

- Supports PC resolution up to 1920x1200; video formats 480i/p, 576i/p,720i/p and 1080i/p

- Distributes digital HDMI signal to two, four, eight, or sixteen displays simultaneously.

- No distortion or attenuation of the signal.

- Full DDC2B communications are support.

- Supports an HDMI or DVI monitor. (DVI requires optional adapter cable- see page 2)

- HDMI 1.3a, HDCP 1.2 compliant

      Supports:
      - x.v.Color
      - 12-bit Deep Color
      - Dolby Digital and DTS
      - Dolby TrueHD and DTS-HD Master Audio
   - Pixel clocks 225 MHz
      - Data rates to 6.75 Gbps

## MATERIALS

Materials Supplied with this kit:
- NTI VOPEX-HDS-2/4/8/16 HDMI Splitter
- 100VAC to 240VAC at 50 or 60Hz-5VDC/3.0A AC Adapter (2, 4 and 8 port models only)
- Line cord, country specific (16 port model only)
- HD-3-MM 3 foot HDMI video interface cable
- This owners manual

Materials *Not* supplied but *REQUIRED:*
- An HD-xx-MM HDMI male-to-male cable for each display to be connected to the splitter. Cables are available from NTI where x= 3, 6, 14, 20, 30,50,75, 100 and 150 feet.
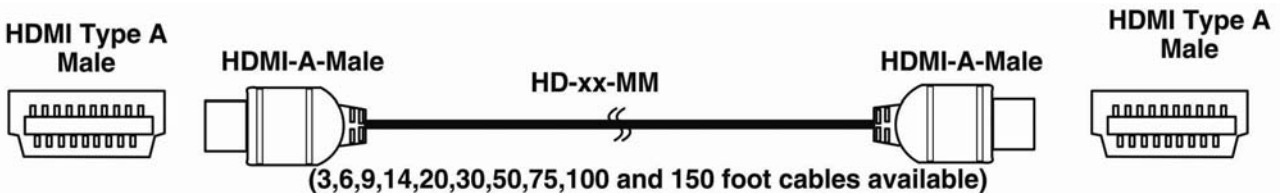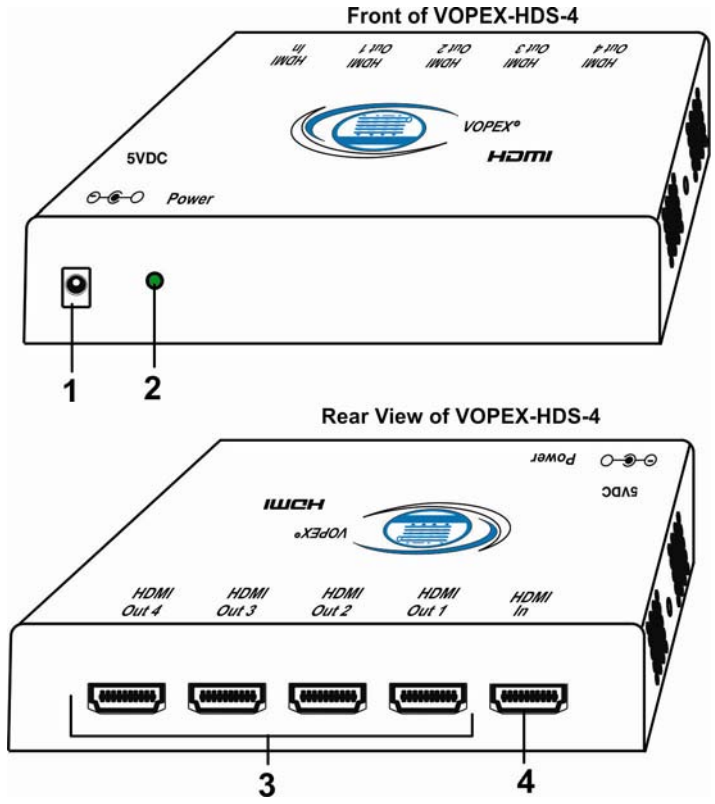

Also available from NTI are DVI-HD-x-MM   DVI-D Single link male to HDMI male cables (where x- 3, 6, 10, and 15 feet)
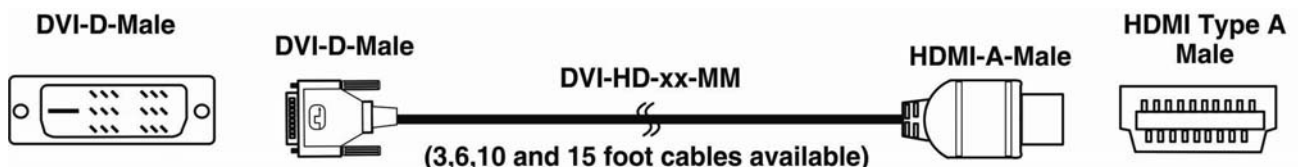
*Cables can be purchased from Network Technologies Inc by calling **(800) 742-8324** (800-RGB-TECH) in the US and Canada or **(330) 562-7070** (worldwide).*

CONNECTORS AND LEDS

Front of VOPEX-HDS-4

Rear View of VOPEX-HDS-4

#	LABEL	CONNECTOR/LED	DESCRIPTION
1	**5V 3.0A**	3.5x1.3mm Power Jack	for connection of power supply
2	**Power**	Green LED	illuminates to indicate proper power to the unit
3	**HDMI Out**	HDMI female connector	for connection of the display devices
4	**HDMI In**	HDMI female connector	for connecting video cables from HDMI source

INSTALLATION

The VOPEX is a Plug-and-Play device with no special configuration settings and easy installation steps:

1. Before connecting the VOPEX to the video source, make sure the video source and the display(s) are turned OFF.

2. Connect a display to a HDMI female port labeled "HDMI Out x" on the rear panel of the VOPEX using a male-to-male HDMI cable.

Note: Some displays need to have their video input type set manually. In this case, select "Digital HDMI" as the input type.
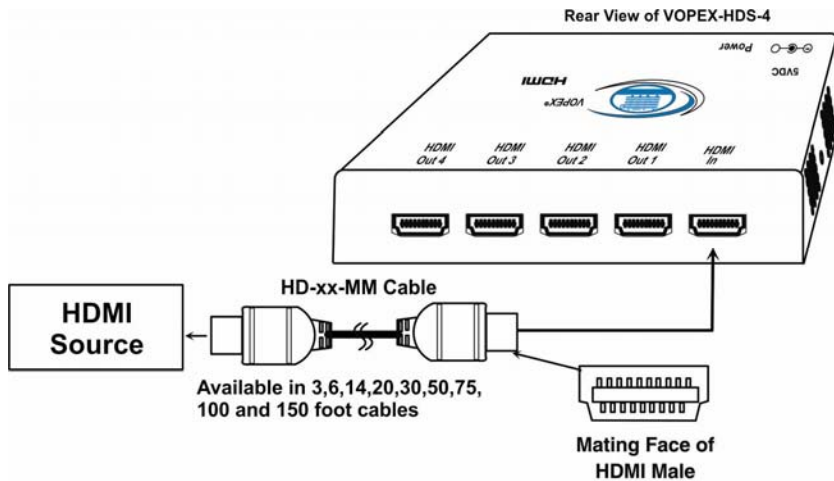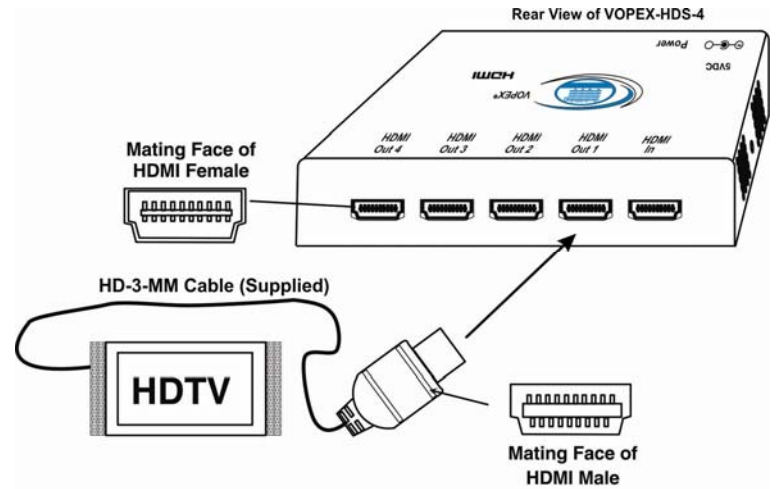
3. Connect the HDMI source to the HDMI port labeled "HDMI In" on the rear panel of the VOPEX using male-to-male HDMI cables.

4. Plug the 5VDC AC adapter into the power jack on the rear panel (2,4 and 8 port models only- 16 port uses a line cord).

5. Power up the VOPEX first.

6. Power up the display device(s).

7. Power up the video source.
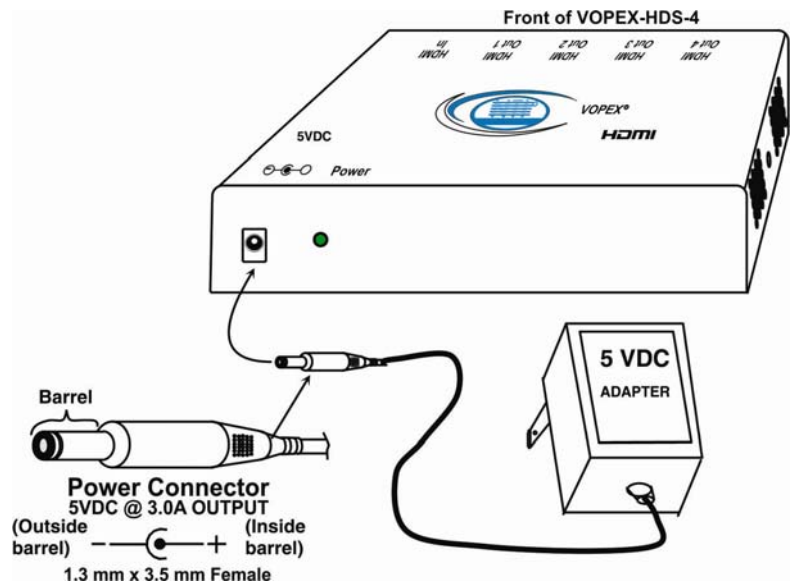
CASCADING

For applications that require more connections than are provided for by the VOPEX-HDS-x, one option is to connect multiple VOPEXs in a cascaded configuration (example below).   Using additional HD-xx-MM cables, connect the HDMI Out ports of a master VOPEX unit (master is connected to the video source) to the HDMI In ports of additional VOPEX-HDS-x (shown as "Slave Unit #1" and "Slave Unit #2" below).   Connect HDTV enabled displays to the cascaded VOPEXs for a larger configuration.

Tip: Any size NTI VOPEX-HDS-x can also be used interchangeably in the cascaded configuration.

Note: Additional tiers of slave units can be added, however additional levels and long cables may cause the image on the lower tiers to become unstable.
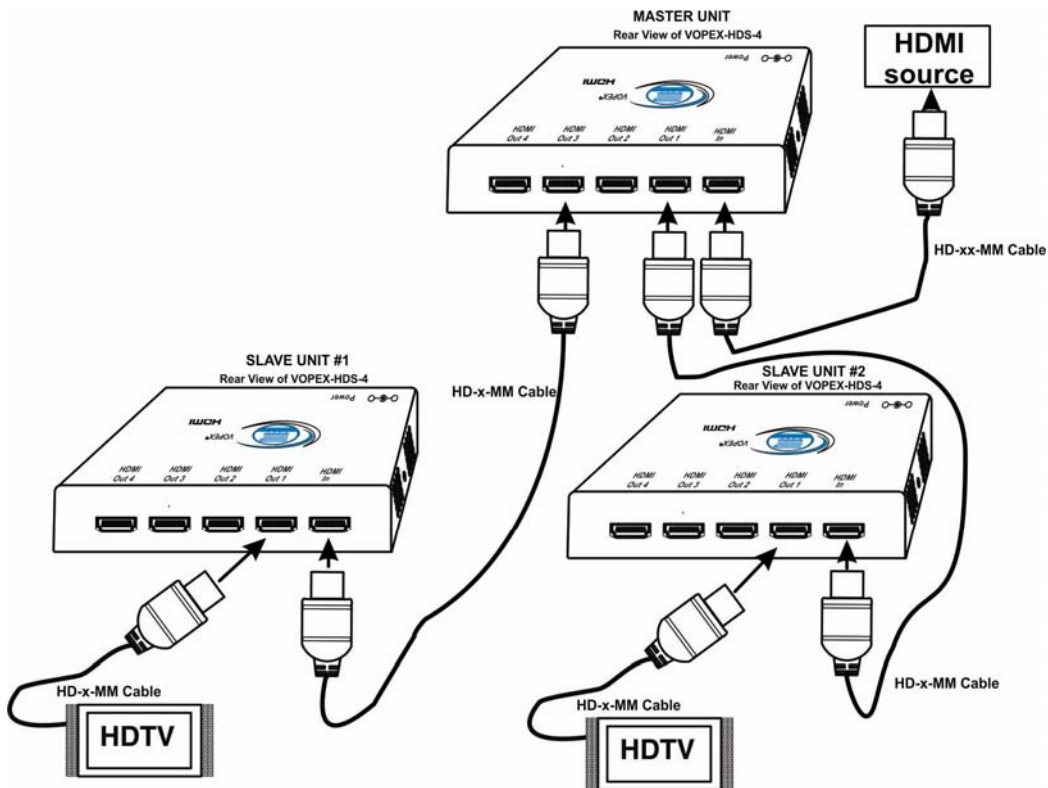
TECHNICAL SPECIFICATIONS

Video Source	Device with HDMI output (DVD player, PC, Gaming Consoles, HD Cable box)
Video Connections	Female HDMI
Bandwidth-Actual	2.25 GHz
Bandwidth-Video	225 MHz
Input Video Signal	TMDS
Video Color Format	Standard (24bit); Deep color (30,36bit);RGB, 4:2:2, 4:4:4, xvycc
Supported Resolution	Computer resolution to 1920 x 1200 and HDTV resolutions to 1080p
DDC	Supported on all ports
Digital Audio Format	LPCM,Dolby Digital (AC3)(Plus),DTS,DSD, Dolby TrueHD,DTS-HD Master Audio
HDMI Version	HDMI 1.3a
DVI Support	DVI 1.0
DDC Support	DDC2b
HDCP Version	HDCP 1.2
Operating temperatures	32°F to 122°F (0°C to 50°C)
Operating Relative Humidity	10 to 90% non-condensing RH
Power Supply	• 100 to 240 VAC at 50 or 60 Hz-5VDC\3A AC adapter (2,4 or 8 port models) • 100 to 240 VAC at 50 or 60 Hz via line cord (16 port model)

Size (In.) WxDxH
    VOPEX-HDS-2/4
    VOPEX-HDS-8
    VOPEX-HDS-16
	
	5.13x3.47x1.09
	5.13x3.47x1.69
	12.07x7.22x1.70

TROUBLESHOOTING

If the VOPEX is not working properly, please look for a solution in the list below:

PROBLEM: No video at all
SOLUTION: Check cable connections on the video source, monitor and the VOPEX. After reconnecting, if a CPU is the video source, the CPU may need to be re-booted in order to sense the monitor connection.
Check cable length.   Cables may be too long.

PROBLEM: No video on one port
SOLUTION: Check cable connections on that port. Hot plug and/or power cycle the video source while that port is connected

PROBLEM: Some artifacts in the picture
SOLUTION: Check for any loose connection between cable and connectors. If loose, it may be necessary to reboot the CPU to achieve a clear image.
Check cable length.   Cables may be too long.

If a solution was not found in the list above, answers may be found in the Frequently Ask Questions (FAQs) section of our website at **http://www.networktechinc.com** or call us directly at (**800) 742-8324 (800-RGB-TECH)** or **(330) 562-7070** and we will be happy to assist in any way we can.

WARRANTY INFORMATION

The warranty period on this product (parts and labor) is two (2) years from the date of purchase. Please contact Network Technologies Inc at **(800) 742-8324** (800-RGB-TECH) or **(330) 562-7070** or visit our website at **http://www.networktechinc.com** for information regarding repairs and/or returns. A return authorization number is required for all repairs/returns.

PRODUCT: _____

SERIAL NO.: _____

DATE: _____   **INSPECTED BY:** _____

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