

## MediaCento™ HX Transmitter and Receivers

Extend HDMI signals over CATx cable.

- VSPX-HDMI-RX works with a VSPX-HDMI1X4-TX to connect an HD or 3D screen in a MediaCento HX deployment.
- VSPX-CSRX works with a VSPX-HDMI1X4-TX to connect an HD or 3D screen and can be cascaded to a second display.



**Customer  
Support  
Information**

Order toll-free in the U.S.: Call 877-877-BBOX (outside U.S. call 724-746-5500) • FREE technical support 24 hours a day, 7 days a week: Call 724-746-5500 or fax 724-746-0746 • Mailing address: Black Box Corporation, 1000 Park Drive, Lawrence, PA 15055-1018  
Web site: [www.blackbox.com](http://www.blackbox.com) • E-mail: [info@blackbox.com](mailto:info@blackbox.com)

## Trademarks Used in this Manual

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### Trademarks Used in this Manual

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### FEDERAL COMMUNICATIONS COMMISSION AND INDUSTRY CANADA RADIO FREQUENCY INTERFERENCE STATEMENTS

This equipment generates, uses, and can radiate radio-frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

*This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.*

*Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.*

### Normas Oficiales Mexicanas (NOM) Electrical Safety Statement INSTRUCCIONES DE SEGURIDAD

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.

## NOM Statement

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5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc.
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá a lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser conectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.
12. Precaución debe ser tomada de tal manera que la tierra física y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las líneas de energía.
16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.

17. Cuidado debe ser tomado de tal manera que objetos líquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
  - A: El cable de poder o el contacto ha sido dañado; u
  - B: Objetos han caído o líquido ha sido derramado dentro del aparato; o
  - C: El aparato ha sido expuesto a la lluvia; o
  - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
  - E: El aparato ha sido tirado o su cubierta ha sido dañada.

### Safety Notice

Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the units.

- Follow all instructions and warnings made on the units.
- Do not attempt to service the units yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device away, and make sure the placement of the units are on stable surfaces.
- Use only the power adapter, power cords, and connection cables designed for the units.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

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## 1. Specifications

**Audio Support** — Surround sound (up to 7.1ch) or stereo digital audio

**Equalization** — VSPX-HDMI1X4-TX: Built-in;

VSPX-HDMI-CSRX: 8-level digital output signal equalization

**ESD Protection** — (1) human body model:  $\pm 19$  kV (air-gap discharge)  
and  $\pm 12$  kV (contact discharge);

(2) core chipset:  $\pm 8$  kV

**HDCP Compliance** — Yes

**HDMI Compliance** — HDMI deep color and 3D

**Housing** — Metal enclosure

**Input DDC Signal** — 5 Volts (peak-to-peak, TTL)

**Input TMDS Signal** — VSPX-HDMI1X4-TX: 1.1 Volts (peak-to-peak);

VSPX-HDMI-RX, VSPX-HDMI-CSRX: 1.2 Volts (peak-to-peak)

**Mounting** — Wallmounting ears with screws

**PCB Stack-up** — 4-layer board (impedance control: differential 100 ohms,  
single 50 ohms)

**Role** — VSPX-HDMI1X4-TX: Transmitter;

VSPX-HDMI-RX: Receiver;

VSPX-HDMI-CSRX: Cascadable receiver

**Transmission Over UTP (24-bit color)** — VSPX-HDMI1X4-TX,

VSPX-HDMI-CSRX: Full HD (1080p): 130 ft. (40 m) over CATx cable;

HD (720p/1080i): 200 ft. (60 m) over CATx cable

**Video Bandwidth** — Single-link 225 MHz (6.75 Gbps)

**Video Support** — 480i/480p/720p/1080i/1080p up to 36-bit color

**User Controls** — VSPX-HDMI1X4-TX: (4) DIP switches for EDID control;

VSPX-HDMI-RX: (1) 8-level digital HDMI signal equalization rotary control  
switch;

VSPX-HDMI-CSRX: 16-level HDMI signal equalization and audio rotary  
control

**Connectors** — VSPX-HDMI1X4-TX: Input: (1) HDMI,

Output: (4) RJ-45, (1) HDMI;

VSPX-HDMI-RX: Input: (1) RJ-45 with (2) LED indicators ([1] Power, [1] Link),

Output: (1) HDMI Type A (19-pin female);

VSPX-HDMI-CSRX: Input: (1) HDMI Type A (19-pin female),

Output: (1) HDMI, (1) RJ-45 with (2) LED indicators ([1] Power, [1] Link),

(1) 3.5-mm audio earphone jack for stereo audio (2-channel PCM  
only)

## Chapter 1: Specifications

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**Indicators** — VSPX-HDMI1X4-TX: (2) LEDs: (1) RED Power, (1) GREEN Signal;  
VSPX-HDMI-RX: (2) RJ-45 LEDs: Power;  
VSPX-HDMI-CSRX: (6) LEDs: (1) RED Power, (1) GREEN HDMI/DVI, (2) RJ-45  
Signal in status, (2) RJ-45 Signal out power

**Temperature Tolerance** — Operating: +32 to +104° F (0 to +40° C);  
Storage: -4 to +140° F (-20 to +60° C)

**Relative Humidity** — 20 to 90%, noncondensing

**Power** — VSPX-HDMI1X4-TX: 5-VDC, 4 A, 13 watts (maximum);  
VSPX-HDMI-RX: 5-VDC, 4-A, 1 watt (maximum);  
VSPX-HDMI-CSRX: 5-VDC, 4-A, 7.5 watts

**Size** — VSPX-HDMI1X4-TX: 1.1"H x 4.3"W x 7.6"D (2.7 x 11 x 19.4 cm);  
VSPX-HDMI-RX: 1.1"H x 3.5"W x 6.8"D (2.7 x 9 x 17.5 cm);  
VSPX-HDMI-CSRX: 1"H x 4.2"W x 7"D (2.6 x 10.7 x 17.9 cm)

**Weight** — VSPX-HDMI1X4-TX: 1.3 lb. (0.6 kg);  
VSPX-HDMI-RX: 0.4 lb. (0.2 kg);  
VSPX-HDMI-CSRX: 1.2 lb. (0.5 kg)



## 2. Overview

### 2.1 Introduction

The VSPX-HDMI1X4-TX transmitter works with the VSPX-HDMI-RX or VSPX-HDMI-CSRX receiver to extend high-definition video and high-quality audio to different locations over a long distance. The transmitters are cascadable, enabling you to increase the number of total displays. The input HDMI source can be duplicated and distributed to up to four HDMI enabled displays linked by CAT5/5e/6 cables with HDMI over CAT5 receivers (VSPX-HDMI). If you only need a single port transmitter, buy the compatible 3D HDMI extender kit (VX-HDMI-TP-3D40M).

The VSPX-HDMI1X4-TX also has a local HDMI output for monitoring. With built-in equalization, the input HDMI cable can be extended up to 66 feet (20 meters) using Full HD, making the overall transmission distance better when compared to generic HDMI splitters.

The VSPX-HDMI-CSRX receiver works with the VSPX-HDMI1X4 transmitter, VSPX-HDMI-RX receiver, or VX-HDMI-TP-3D40M extender kit to distribute HDMI/DVI video sources to up to ten displays in a daisy-chained connection via CAT5/5e. By using the VSPX-HDMI1X4-TX transmitter and making four separate chains, the number of displays can be increased to a total of 40. The cascade ability allows pure digital video and audio broadcast station by station and extends HDMI compliant video and audio anywhere.

The VSPX-HDMI-RX receiver works with the transmitter or VSPX-HDMI-CSRX cascadable receiver to extend high-definition video and high-quality audio over a distance via CAT5/5e/6 cable. The receiver works with an HDMI transmitter or splitter over single CAT5 and enables you to extend HDMI compliant displays almost anywhere.

### 2.2 Features

#### 2.2.1 VSPX-HDMI1X4-TX, VSPX-HDMI-RX, VSPX-HDMI-CSRX

- Support HDMI deep color and 3D.
- HDCP compliant.
- Transmits uncompressed digital HDMI over CATx cable.
- Perfectly integrated with other compatible HDMI over CATx series products.

## Chapter 2: Overview

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### 2.2.2 Additional Features for VSPX-HDMI1X4-TX

- Regenerates the HDMI signal.
- HDMI local output for monitoring.
- Supports default HDMI EDID and can learn the EDID of displays.
- Extends up to 66 feet (20 m) of input HDMI cable.
- Outputs video up to 200 feet (60 m) over CATx cable using HD (720p/1080p).
- Outputs video up to 130 feet (40 m) over CATx cable using Full HD (1080p).
- Wallmountable.

*NOTE: The cable length depends on the characteristics and quality of the cables. Higher resolutions and longer transmission distances require low-skew cables (<25 ns/100 m) for best performance. We recommend using solid core CAT6 cable.*

### 2.2.3 Additional Features for VSPX-HDMI-RX

- Extends up to 200 feet (60 m) over CATx cable using HD (720p/1080i).
- Extends up to 130 feet (40 m) over CATx cable using Full HD (1080p).
- Wallmountable.

*NOTE: The cable length depends on the characteristics and quality of the cables. Higher resolutions and longer transmission distances require low-skew cables (<25 ns/100 m) for best performance. We recommend using solid core CAT6 cable.*

### 2.2.4 Additional Features for VSPX-HDMI-CSRX

- Regenerates and outputs the HDMI signal.
- Support for stereo audio analog or 7.1ch audio via HDMI interface.
- Extends up to 200 feet (60 m) (720p/1080i) over CATx cable.
- Extends up to 130 feet (40 m) (1080p) over CATx cable.
- Up to three layers of cascaded units can be used to reach a total distance of up to 393 feet (120 m).
- Wallmountable.

*NOTE: The cable length depends on the characteristics and quality of the cables. Higher resolutions and longer transmission distances require low-skew cables (<25 ns/100 m) for best performance. We recommend using solid core CAT6 cable.*

### 2.3 What's Included

Your package should include the following items. If anything is missing or damaged, contact Black Box Technical Support at 724-746-5500 or [info@blackbox.com](mailto:info@blackbox.com).

#### 2.3.1 VSPX-HDMI1X4-TX

- (1) 1X4 Transmitter (VSPX-HDMI1X4-TX)
- (1) 5-VDC, international 4-A in-line power supply unit with US power cord
- (2) mounting screws
- This user's manual

#### 2.3.2 VSPX-HDMI-RX

- (1) Receiver (VSPX-HDMI-RX)
- (1) 5-VDC, international 4-A in-line power supply unit with US power cord
- (2) mounting screws
- This user's manual

#### 2.3.3 VSPX-HDMI-CSRX

- (1) Cascadable Receiver (VSPX-HDMI-CSRX)
- (1) 5-VDC, international 4-A in-line power supply unit with US power cord
- (2) mounting screws
- This user's manual

### 2.4 Hardware Description

#### 2.4.1 1 x 4 Transmitter (VSPX-HDMI1X4-TX)

Figures 2-1, 2-2, and 2-3 show the front, back, and top panels of the transmitter. Table 2-1 describes its components.

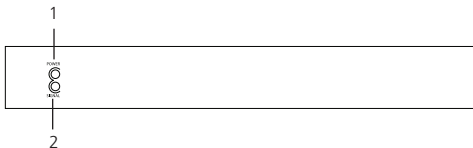


Figure 2-1. Transmitter's front panel.

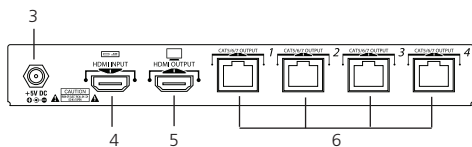


Figure 2-2. Transmitter's back panel.

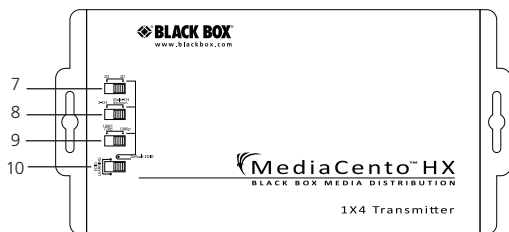


Figure 2-3. Transmitter's top panel.

Table 2-1. Transmitter's components.

Number	Component	Description
1	Power LED	ON when power to the unit is on. OFF when power is off.
2	Signal LED	ON when HDMI source signal is detected. OFF when no HDMI signal is detected.
3	+5 VDC power connector	Connects to 5 VDC, 4 A interlocking power adapter.
4	HDMI input connector	Connects to HDMI source.
5	HDMI output connector	Links to HDMI output for local monitor.
6	(4) RJ-45 connectors	CATx output 1-4
7	SW1	2D/3D mode
8	SW2	Audio mode
9	SW3	HD mode
10	SW4	Learn EDID mode

## Chapter 2: Overview

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### 2.4.2 Receiver (VSPX-HDMI-RX)

Figures 2-4 and 2-5 show the front and back panels of the receiver. Table 2-2 describes its components.

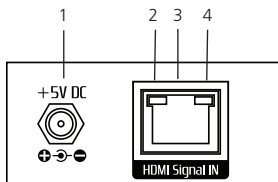


Figure 2-4. Receiver's front panel.

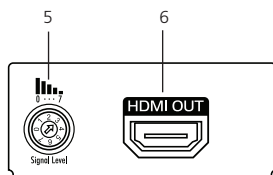


Figure 2-5. Receiver's back panel.

Table 2-2. Receiver's components.

Number	Component	Description
1	Interlocking power jack	Connects to +5 VDC power supply unit.
2	Power LED	Lights when power is on.
3	RJ-45 connector	Interconnect.
4	Power LED	Lights when power is on.
5	8-position switch	Adjust the 8-level equalization control to the received HDMI male-male cable. The HDMI signal level varies from 0 (strongest) to 7 (weakest) for respective transmission length from longest possible range to short distance. Adjust the signal level from 7 to 0 and stop turning the rotary switch when the audio/video is playing normally. Inappropriate signal level setting may cause an over-power condition that could damage the converter.
6	HDMI output connector	Connect to an HDMI display with an HDMI male-male cable.

## Chapter 2: Overview

### 2.4.3 Cascadable Receiver (VSPX-HDMI-CSRX)

Figures 2-6 and 2-7 show the front and back panels of the cascadable receiver. Table 2-3 describes its components.



Figure 2-6. Cascadable receiver's front panel.

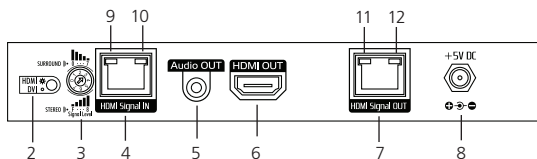


Figure 2-7. Cascadable receiver's back panel.

Table 2-3. Cascadable receiver's components.

Number	Component	Description
1	Power LED	Lights when power to the unit is on.
2	HDMI/DVI LED	ON when HDMI signal is detected. OFF when DVI signal is detected.



Table 2-3 (Continued). Cascadable receiver's components.

Number	Component	Description
3	16-level rotary control switch	Adjust the 16-level equalization control corresponding to the transmission distance of receiving HDMI signals. For surround sound audio output, adjust from 0 to 7 (longest-to-shortest transmission length). For stereo audio output, adjust from 8 to F (longest-to-shortest transmission length). We recommend adjusting from 7 to 0 or from F to 8 to find the optimal visual result. Adjust the signal level from 7 to 0 or F to 8 and stop turning the rotary switch when the audio/video is playing normally. Inappropriate signal level setting may cause an over-power condition that could damage the converter.
4	RJ-45 signal input	Interconnect input.
5	3.5-mm connector	Audio out: plug in a local speaker here.
6	HDMI output connector	Connect to a local HDMI display with an HDMI male-male cable here, or link to another cascadable receiver for cascading.
7	RJ-45 signal output	Interconnect output.
8	Interlocking power jack	Connects to +5 VDC, 4A power supply unit.

## Chapter 2: Overview

Table 2-3 (Continued). Cascadable receiver's components.

Number	Component	Description
9	Link LED	Lights when a link is present.
10	Link LED	Lights when a link is present.
11	Power LED	Lights when power to the port is on.
12	Power LED	Lights when power to the port is on.

### 2.5 Application Diagrams

Figures 2-8 through 2-10 show typical application diagrams for the transmitter, receiver, and cascadable receiver.

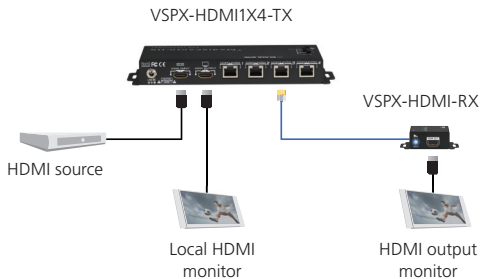


Figure 2-8. Connection diagram #1.

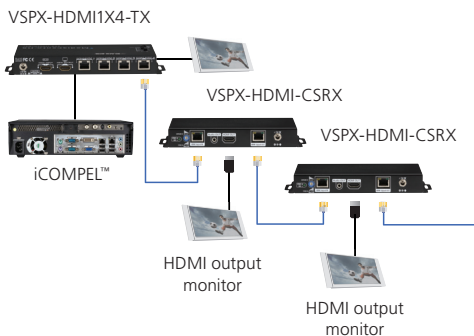


Figure 2-9. Connection diagram #2.

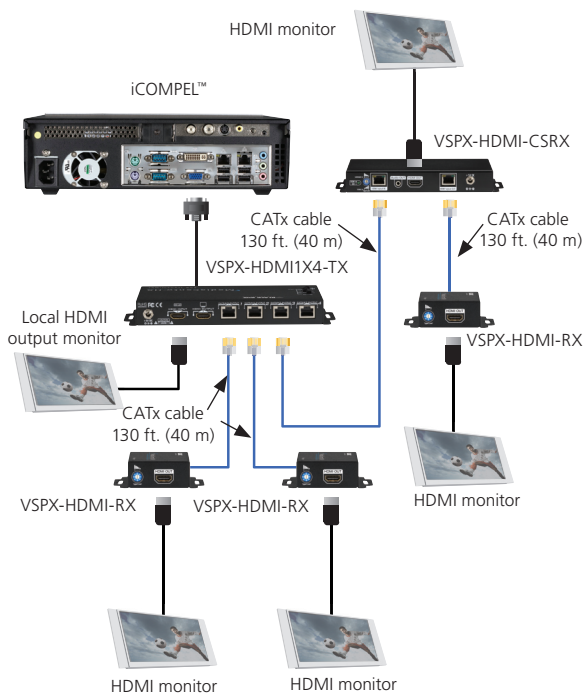


Figure 2-10. Connection diagram #3.

### 3. Configuration

#### 3.1 Switch Settings on the Transmitter

Figure 3-1 shows the VSPX-HDMI1X4-TX transmitter board's switch locations. Table 3-1 describes the switches' settings.

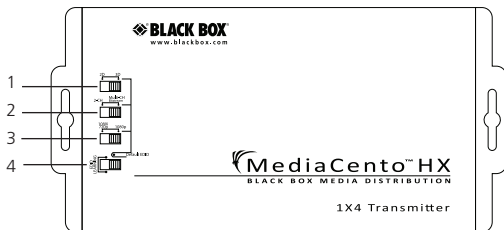


Figure 3-1. Switches on the transmitter board.

Table 3-1. Transmitter board's switch settings.

Number	DIP switch Name	Left Position Setting	Right Position Setting
1	Video mode	2D display	3D display
2	Audio mode	2 ch	7.1 ch
3	HD mode	720p	1080p
4	EDID mode	EDID learn	Default EDID

*NOTE: Instant switching is enabled only when the video and audio setting of the source has been adjusted to Auto or Passthrough.*

## Chapter 3: Configuration

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### 3.2 EDID Learning

1. Power on the transmitter. Connect the display that you want to learn the EDID to the HDMI output connector.
2. To learn the display's EDID for the source device connected to the HDMI output on the transmitter, set EDID mode to the left position. Power on the transmitter and wait for about five seconds to complete the EDID learning process.

### 4. Installation

To broadcast HDMI signals to four remote displays with a local port, follow these instructions.

1. Turn off all devices, including sources and displays.
2. Connect an HDMI source (such as a Blu-ray disc player) to the HDMI port on the transmitter.
3. Connect the receivers via CAT5/5e/6 cables to each HDMI signal output port.
4. Connect the local HDMI equipped monitor.
5. Set EDID DIP switch settings of the transmitter according to your displays (Chapter 3).
6. If the monitor's resolution or refresh rate differs from the extender's built in EDID settings, set DIP switch to EDID learning to copy the EDID from the local monitor (Section 3.2).
7. Plug in the 5-VDC, 4-A power supplies.
8. Power on the HDMI displays.
9. Power on the HDMI source device.
10. If you see a flickering or blinking image on the remote displays, adjust the rotary control switch on the receivers to adjust the video signal strength (see Table 2-2 or 2-3).
11. If you are installing several VSPX-HDMI-CSRX units in a cascade setup, always start by adjusting signal strength on the unit nearest the transmitter, and move on to the adjacent units.

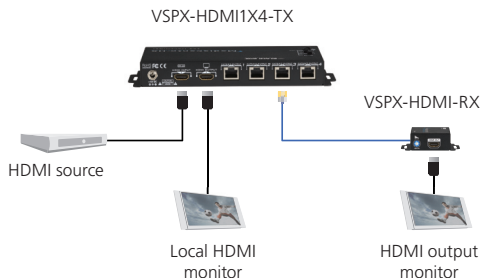


Figure 4-1. Connection diagram.

## Chapter 5: Pin Definitions

### 5. Pin Definitions

#### 5.1 HDMI

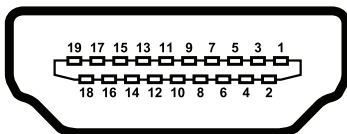


Figure 5-1. HDMI female connector.

Table 5-1. HDMI connector pinout.

Pin	Signal	Pin	Signal
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock
3	TMDS Data2-	13	CEC
4	TMDS Data1+	14	Reserved (not connected)
5	TMDS Data 1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DC/CEC Ground
8	TMDS Data0 Shield	18	+5 V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+	—	—



## 5.2 RJ-45/CATx

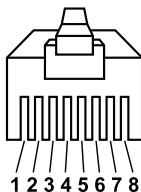


Figure 5-2. RJ-45 connector.

Table 5-2. RJ-45 CATx TIA/EIA-568B connector pinout.

Pin	T568A Pair	T568A Color	T568B Pair	T568B Color
1	3	White-Green	2	White-Orange
2	3	Green	2	Orange
3	2	White-Orange	3	White-Green
4	1	Blue	1	Blue
5	1	White-Blue	1	White-Blue
6	2	Orange	3	Green
7	4	White-Brown	4	White-Brown
8	4	Brown	4	Brown

## Chapter 6: Performance Guide

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### 6. Performance Guide for HDMI Over Category 5/6 Cable Transmission

Table 6-1. Cable performance guide.

Performance Rating		Type of CAT5/6 Cable		
Wiring	Shielding	CAT5	CAT5e	CAT6
Solid	Unshielded (UTP)	***	*****	*****
	Shielded (STP)	***	***	****
Stranded	Unshielded (UTP)	*	**	**
	Shielded (STP)	*	*	**
Termination		Use EIA/TIA-568-B termination.		

### 7. Troubleshooting

#### 7.1 Contacting Black Box

If you determine that your transmitter, receiver, or cascable receiver is malfunctioning, do not attempt to alter or repair the unit. It contains no user-serviceable parts. Contact Black Box Technical Support at 724-746-5500 or [info@blackbox.com](mailto:info@blackbox.com).

Before you do, make a record of the history of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description, including:

- the nature and duration of the problem.
- when the problem occurs.
- the components involved in the problem.
- any particular application that, when used, appears to create the problem or make it worse.

#### 7.2 Shipping and Packaging

If you need to transport or ship your transmitter, receiver, or cascable receiver:

- Package it carefully. We recommend that you use the original container.
- If you are returning the unit, make sure you include everything you received with it. Before you ship for return or repair, contact Black Box to get a Return Authorization (RA) number.

**Black Box Tech Support: FREE! Live. 24/7.**

Tech support the  
way it should be.



Great tech support is just 30 seconds away  
at 724-746-5500 or [blackbox.com](http://blackbox.com).



## About Black Box

Black Box provides an extensive range of networking and infrastructure products. You'll find everything from cabinets and racks and power and surge protection products to media converters and Ethernet switches all supported by free, live 24/7 Tech support available in 30 seconds or less.

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VSPX-HDMI1X4-TX, version 3

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