

# CrystalView HDT

## HDBaseT Extender with PoE

*CATx Video, Audio and USB Extender*



### CrystalView HDT - Product Features

- Supports HDMI, VGA, or DVI video input
- HDMI Output resolutions to 1080p
- Converts VGA and analog audio to HDMI
- HDMI cards supports both 8-bit and 10-bit deep color
- Extension over standard CATx cable
- Receivers powered via CATx cable (PoE)
- USB keyboard/mouse and HID touchscreen support
- Dolby® TrueHD and DTS-HD audio pass-through
- 1U chassis can house up to 6 HDMI or VGA transmitter cards
- Single unit HDMI-TX chassis also available
- Any combination of HDMI and VGA cards possible, each with local HDMI output
- Monitor hot plug detection and DDC support
- Infrared remote controller support (30 to 56kHz)
- AC and DC redundant power supplies
- Headphone output at receivers for monitoring
- HDMI input is HDCP 1.3 compliant
- Laptop computers can be connected at remote receivers for keyboard and mouse control
- Connected computers can be started via Wake-on-LAN network messages
- Rack mountable options

- Transmits 1080p HDMI video up to 328 feet
- Also accepts VGA input up to 1920 x 1200
- Remote receivers powered via CATx (PoE)
- Extends USB keyboard, mouse and touchscreens
- Supports Infrared remote Controllers
- HDCP 1.3 compliant

### CrystalView HDT – Product Introduction

The CrystalView HDB is the latest addition to Rose Electronics' line of KVM extenders. It can extend digital video and audio, analog video and audio, USB keyboard and mouse, and infrared remote controllers.

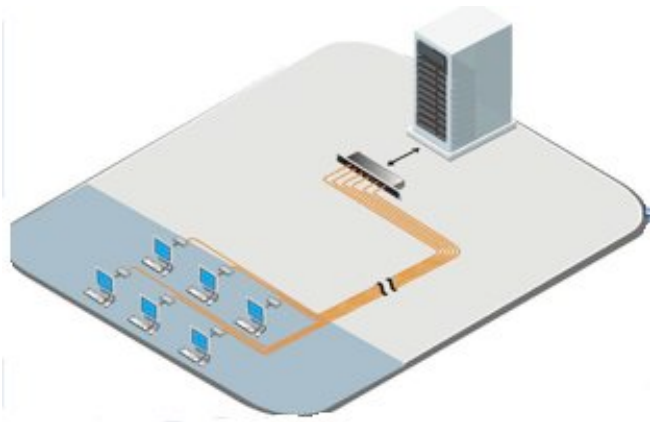
The system utilizes HDBaseT for the transmission of uncompressed high-definition audio and video, USB keyboard and mouse, and infrared remote controller signals over a single standard CATx cable at distances of 328 feet (100 meters).

HDBaseT employs Power-over-Ethernet, (PoE) technology to supply power to the remote receivers through the CATx link. This eliminates the need for power cables and supplies at receiver locations. The transmitter chassis can house up to six HDMI or VGA transmitter cards, each supplying power and high definition signals to a remote receiver. VGA cards convert incoming analog video and audio signals to HDMI. DVI inputs are plugged in to the HDMI cards using a DVI to HDMI adapter. All transmitter cards have local HDMI outputs.

Video sources can be controlled with a USB keyboard and mouse, with HID-USB touchscreens, a connected laptop's keyboard and mouse, or by Infrared Remote Controllers.

Copy-protected video streaming is provided by DDC support and hot plug detection of monitors, and by HDCP compliance.

Installation of the system is quick and simple. Connect the transmitter boards to the desired computers, connect monitors, keyboards and mice to the CATx linked remote receivers, and then connect power to the transmitter chassis.



**Models** The CrystalView HDB is available in a 1U rackmountable Transmitter chassis model, which can host a combination of up to 6 HDMI or VGA Transmitter cards. A standalone single chassis unit is also available.

The Receiver unit is a standalone single chassis unit, suitable for flexible installation at different remote locations. The remote unit can be powered through a standard 5V power adapter, or by using PoE.

**Cables** HDMI cables and USB A-B cables are used to connect HDMI equipment to the CrystalView HDB HDMI card inputs. HD-15 combination VGA/Audio cables, and USB-AB cables are used to connect analog video and audio equipment to the CrystalView HDB VGA card inputs.

**Installation** Installing the CrystalView HDB extender consists of connecting up to 6 HDMI or VGA sources to the video inputs, along with their associated USB inputs. Attach HDMI displays, USB keyboards and mice to the receiver device connectors. Apply power to the monitors and the Transmitter chassis, and then apply power to the computers.

**Operation** USB keyboard hot keys can be used to adjust volume on the receiver headphone outputs. Hotkeys can also be used to adjust the HDMI video display of video from VGA sources.



## Specifications

<b>Dimension (WxDxH)</b>	17.28 x 9.63 x 1.75" (439x244x44mm)	
<b>Transmitter</b>	5.71 x 4.06 x 1.22" (145x103x31mm)	
<b>Receiver</b>		
<b>Video Resolution</b>	Up to 1920 x 1200@60Hz	
<b>VGA</b>	Up to 1080p (50/60 Hz)	
<b>HDMI Input</b>	Up to 1080p (50/60 Hz)	
<b>HDMI Output</b>	Up to 1080p (50/60 Hz)	
<b>Distance</b>	328ft (100 meters), CAT5e/6 shielded cable	
<b>Video Bandwidth</b>	Single Link, 225Mhz	
<b>Color Depth</b>	8-bit, 10-bit	
<b>Connectors</b>	<b>HDMI Card</b>	<b>VGA Card</b>
<b>Video In</b>	HDMI (F)	HD15 (Video/Audio)
<b>Local Video Out</b>	HDMI (F)	HDMI (F)
<b>Keyboard/Mouse</b>	USB Type B	USB Type B
<b>HDBaseT Link</b>	RJ-45	RJ-45
	<b>Receiver Chassis</b>	
<b>Video Out</b>	HDMI (F)	
<b>Keyboard/Mouse</b>	USB Type A (2)	
<b>Laptop Connector</b>	USB Type B	
<b>Audio Pass-Through</b>	Surround sound (7.1 ch), Dolby®TrueHD and DTS-HD	
<b>IR Frequency</b>	30 to 56kHz	
<b>Power - TX Chassis</b>	100-240 VAC IEC or 48VDC/3.3A Power	
<b>- RX Chassis</b>	+5VDC or PoE	
<b>Power Consumption</b>	TX unit (120W max). RX unit (10W max)	
<b>Operating Temp</b>	32°F to 104°F (0°C to 40°C)	
<b>Storage Temp</b>	14°F to 122°F (-10°C to 50°C)	
<b>Humidity</b>	20% - 90% relative, non-condensing	
<b>Approvals/Safety</b>	FCC/CE/C-Tick - Class A (Transmitter) FCC/CE/C-Tick - Class B (Receiver)	

## Part Numbers

CRV-CH06-HDT-P	CrystalView HDT, 6 Bay Chassis for up to 6x HDBaseT TX Cards
CRV-DLHTXU-P/IRK	CrystalView HDT, HDBaseT Transmitter Card HDMI-DVI, USB HID, IR, CATx, 100m
CRV-DLVTXU-P/IRK	CrystalView HDT, HDBaseT Transmitter Card, VGA, USB HID, Audio, IR, CATx, 100m
CRV-SRHTXU-P	CrystalView HDT, HDBaseT Receiver Unit, HDMI, USB HID, Audio, IR, CATx, POE
CRV-SRHTXU	CrystalView HDT, HDBaseT Receiver Unit, HDMI, USB HID, Audio, IR, CATx
CRK-2HDTXU-P	CrystalView HDT, HDBaseT Extender Kit, HDMI-DVI, USB HID, IR, CATx, 100m, POE
TFR-48D330FSUD4	CrystalView HDT, 48V 160W (3.3A) POE Power Adapter



〒103-0014 東京都中央区日本橋蛸殻町1-16-11  
 TEL : 03-3668-8089 FAX : 03-3668-9872  
<http://www.cybernetech.co.jp>