

# Connecting a video source using HDBaseT

The HDBaseT 4K input card extends the 4K video with HDR without visual compromise or additional latency over a single cable.

Key features include:

- Complies with DVI 1.0 using an HDMI-DVI adapter.
- Complies with the HDCP 2.2 and HDMI 2.0 standards.
- Supports the legacy HDCP 1.x and HDMI 1.x standards.
- Supports RS232 baud rates from 1200 bps to 115200 bps.
- Simultaneously transmits data over a single Cat.6/7 cable up to distances of 100 m (328 feet).
- Supports 16-bit deep color up to 1080p@60Hz.
- Supports HD resolutions up to 3840×2160@60Hz (YUV 4:4:4, 8-bit).

The HDBaseT 4K input card does not support:

- 14400 bps baud rate
- Half duplex 100Base-Tx
- 4K HDR at Christie HS Series 4K7-HS/4K10-HS products 24Hz (YUV 4:4:4) and 60Hz (YUV 4:2:0) up to 12-bit color.

## Affected products

The following products are affected:

- Christie 4K7-HS
- Christie 4K10-HS

## Setting up the HDBaseT input card

Learn how to install and set up the HDBaseT input card.



The HDBaseT card is provided as standard card on the 4K10-HS projector and as an optional card for the 4K7-HS.

1. Ensure the projector is turned off.
2. Insert the HDBaseT input card into the option card slot on the projector until you hear a click.
3. Turn on the projector.

The projector automatically detects the option card and displays the status "Slot# - HDBaseT Searching".

4. Verify the HDBaseT input card has passed or failed.
  - If verification passes, proceed to step 5.
  - If verification fails, repeat steps 1 to 4 until the projector displays the status "Slot# - HDBaseT Searching".
5. Control the projector using one of the following methods:
  - RS232 interface  
 Make sure to switch **Main Menu > Configuration > Communications > Serial Port Path** to the slot the HDBaseT input card has been inserted.  
 The baud rate must be the same on both the projector and the computer or the connection will not be made.
  - LAN control by a computer  
 Make sure to switch **Main Menu > Configuration > Communications > SLOT LAN Path** to the slot the HDBaseT input card has been inserted.
  - IR-In remote control  
 Can use either the IR2 Blaster or IR1 Extender connections. Make sure the devices or remote are in direct line-of-sight for the IR Blaster or IR Extender respectively.

## HDBaseT video formats

Identify the video formats for the HDBaseT input card.

Format	Pixel clock (MHz)	Frame rate (Hz)	Pixel format	Bit-depth	Notes
3840x2160	594	50, 60	RGB	8-bit	—
3840x2160	594	50, 60	YCbCr 4:4:4	8-bit	—
3840x2160	371.25	50, 60	YCbCr 4:2:0	10-bit	4:2:0 formats going through DSC compression are output as 4:2:2 formats. 4:2:2 formats are always output as 12 bits.
3840x2160	371.25	50, 60	YCbCr 4:2:0	10-bit HDR	4:2:0 formats going through DSC compression are output as 4:2:2 formats. 4:2:2 formats are always output as 12 bits.
3840x2160	445.5	50, 60	YCbCr 4:2:0	12-bit	4:2:0 formats going through DSC compression are output as 4:2:2 formats.
3840x2160	445.5	50, 60	YCbCr 4:2:0	12-bit HDR	4:2:0 formats going through DSC compression are output as 4:2:2 formats.
3840x2160	594	50, 60	YCbCr 4:2:2	8 bit	4:2:2 formats are always output as 12 bits.
3840x2160	594	50, 60	YCbCr 4:2:2	10-bit	4:2:2 formats are always output as 12 bits.
3840x2160	594	50, 60	YCbCr 4:2:2	10-bit HDR	4:2:2 formats are always output as 12 bits.
3840x2160	594	50, 60	YCbCr 4:2:2	12-bit	—
3840x2160	594	50, 60	YCbCr 4:2:2	12-bit HDR	—
3840x2160	371.25	25, 30	RGB	10-bit	—

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3840x2160	445.5	25, 30	RGB	12-bit	—
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3840x2160	371.25	25, 30	YCbCr 4:4:4	10-bit HDR	—
3840x2160	445.5	25, 30	YCbCr 4:4:4	12-bit	—

## Technical support

Technical support for Christie Enterprise products is available at:

- North and South America: +1-800-221-8025 or [Support.Americas@christiedigital.com](mailto:Support.Americas@christiedigital.com)
- Europe, Middle East, and Africa: +44 (0) 1189 778111 or [Support.EMEA@christiedigital.com](mailto:Support.EMEA@christiedigital.com)
- Asia Pacific ([support.apac@christiedigital.com](mailto:support.apac@christiedigital.com))
  - Australia: +61 (0)7 3624 4888 or [tech-Australia@christiedigital.com](mailto:tech-Australia@christiedigital.com)
  - China: +86 10 6561 0240 or [tech-supportChina@christiedigital.com](mailto:tech-supportChina@christiedigital.com)
  - India: +91 (80) 6708 9999 or [tech-India@christiedigital.com](mailto:tech-India@christiedigital.com)
  - Japan: 81-3-3599-7481
  - Singapore: +65 6877-8737 or [tech-Singapore@christiedigital.com](mailto:tech-Singapore@christiedigital.com)
  - South Korea: +82 2 702 1601 or [tech-Korea@christiedigital.com](mailto:tech-Korea@christiedigital.com)
- Christie Professional Services: +1-800-550-3061 or [NOC@christiedigital.com](mailto:NOC@christiedigital.com)