

## ANI-527TX / RX

4K60Hz UHD+ HDR HDMI HDBaseT Transmitter/Receiver  
w/ Bi-directional 24V PoC

Receiver



Transmitter





## SAFETY INFORMATION



1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
2. Follow all instructions printed on unit chassis for proper operation.
3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
10. Turn power off and disconnect unit from AC current before making connections.
11. Never hold a power switch in the "ON" position.
12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.
14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
19. Service Information Equipment should be serviced by qualified service personnel when:
  - A. The power supply cord or the plug has been damaged.
  - B. Objects have fallen, or liquid has been spilled into the equipment.
  - C. The equipment has been exposed to rain.
  - D. The equipment does not appear to operate normally, or exhibits a marked change in performance.
  - E. The equipment has been dropped, or the enclosure damaged.

THIS SAFETY INFORMATION IS OF A GENERAL NATURE AND MAY BE SUPERSEDED BY INSTRUCTIONS CONTAINED WITHIN THIS MANUAL.

## SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

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INTRODUCTION

The ANI-527RX & ANI527TX HDMI over HDBaseT™ Receiver & Transmitter are a great solution for extending UHD video and audio as well as Ethernet and control via a single run of CAT5e/6/7 cable over distances up to 230 feet / 70 meters. This extender complies with the advanced HDCP 2.2 and HDMI 2.0 standards, as well as supporting the legacy HDCP 1.x and HDMI 1.x standards. In addition, despite HDBaseT™'s 10.2Gbps bandwidth limitation, 4K UHD HDMI video sources, up to and including 4K@60Hz (4:4:4, 8-bit) as well as 10/12-bit sources with HDR, are able to be processed and extended by the use of AVLC (Adaptive Visually Lossless Compression) when needed. Multiple data and control interfaces are also able to be extended, including IR, RS-232, and LAN connections.

This unit supports bi-directional 24V PoC (Power over Cable) allowing the system to be completely powered by, or provides power to, the compatible connected Receiver or Transmitter, allowing for greater flexibility within different installation scenarios. This product has a 3 year warranty.

PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- ANI-527RX HDMI to HDBaseT™ Receiver w/ Bi-directional 24V PoC
- 3.5mm to IR Extender Cable
- Users Guide
- &
- ANI-527TX HDMI to HDBaseT™ Transmitter w/ Bi-directional 24V PoC
- 24V/1.25A DC Power Adapter
- 2-pin Terminal Block
- 3.5mm to IR Blaster Cable
- Users Guide

## FEATURES

- HDMI with HDR, 3D & 4K@60Hz support, DVI 1.0 compatible
- HDCP 1.x and HDCP 2.2 compliant
- Supports up to 4K UHD (18Gbps, 4K@50/60Hz 4:4:4, 8-bit) video input and output
- Supports Deep Color input and output up to 12-bit
- Supports 10-bit and 12-bit HDR (High Dynamic Range) input/output
- Supports CEC bypass
- HDBaseT™ feature support: HD Video and Audio, 24V PoC and Control (bi-directional IR/RS-232 pass-through)
- **Receiver:** HDBaseT™ input receives video, audio and data over a single CAT5e/6/7 cable and can reach distances up to 70M/230ft at 1080p and 40M/131ft at 4K when using CAT6a/7
- **Transmitter:** HDBaseT™ output transmits video, audio and data over a single CAT5e/6/7 cable and can reach distances up to 70M/230ft at 1080p and 40M/131ft at 4K when using CAT6a/7
- Integrated AVLC (Adaptive Visually Lossless Compression) activates when the bandwidth requirements of the source are beyond 10.2Gbps (340MHz) allowing for support of sources up to 18Gbps (600MHz) with no loss of visual quality
- Supports pass-through of many audio formats including LPCM 2.0/5.1/7.1, Bitstream, and HD Bitstream
- Bi-directional 24V PoC allows the unit to be powered by, or provide power to, a compatible connected Transmitter

**Note:** The 24V PoC function is designed to power, or receive power from, compatible Transmitter units only. Non-PoC Transmitters will need their own power supply. Other brands of Transmitter may not be compatible.

**Note:** The 24V PoC function is designed to power, or receive power from, compatible Receiver units only. Non-PoC Receivers will need their own power supply. Other brands of Receiver may not be compatible.

# SPECIFICATIONS

## SPECIFICATIONS

- **HDMI Bandwidth:** 600MHz/18Gbps
- **HDBaseT™ Bandwidth:** 340MHz/10.2Gbps
- **RX Input Port:** HDBaseT™ (RJ-45)
- **RX Output Port:** HDMI
- **RX Pass-through Ports:**
  - IR Extender (3.5mm)
  - IR Blaster (3.5mm)
  - RS-232 (DE-9)
- **TX Input Port:** HDMI
- **TX Output Port:** HDBaseT™ (RJ-45)
- **TX Pass-through Ports:**
  - IR Extender (3.5mm)
  - IR Blaster (3.5mm)
  - RS-232 (DE-9)
- **IR Frequency:** 30 – 50kHz (30 – 60kHz under ideal conditions)
- **Baud Rate:** Up to 115200
- **Power Supply:** 24V/1.25A DC (US/EU standards, CE/FCC/UL certified)
- **ESD Protection Human Body Model:**
  - ±8kV (Air Discharge)
  - ±4kV (Contact Discharge)
- **Dimensions (WxHxD):** 4 x 1 x 4.2 in (102x25x107.5mm) [Case Only] / 4 x 1 x 4.5 in (102x25x115mm) [All Inclusive]
- **Weight: RX:** 9.17 oz / 260g / **TX:** 8.61 oz / 244g
- **Chassis Material:** Metal (Steel)
- **Chassis Color:** Black
- **Operating Temperature:** 0°C–40°C/32°F–104°F
- **Storage Temperature:** -20°C–60°C/-4°F–140°F
- **Relative Humidity:** 20–90% RH (Non-condensing)
- **Power Consumption:** 14.5W (Tx+Rx)

As product improvements are continuous, specifications are subject to change without notice.

# SYSTEM REQUIREMENTS / APPLICATIONS

## SYSTEM REQUIREMENTS

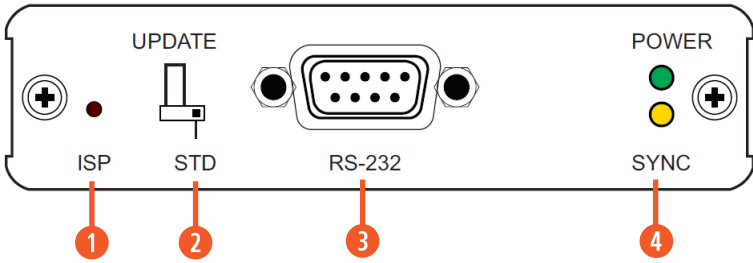
- HDMI receiving equipment such as an HDTV, monitor or audio amplifier.
- An HDBaseT™ Transmitter equipped with AVLC and 24V PoC support is strongly recommended.
- An HDBaseT™ Receiver equipped with AVLC and 24V PoC support is strongly recommended.
- The use of “**Premium High Speed**” HDMI cables, and industry standard CAT6, CAT6a or CAT7, is highly recommended.

## APPLICATIONS

- Household entertainment sharing and control
- Lecture room display and control
- Showroom display and control
- Meeting room presentation and control
- Classroom display and control

# OPERATION CONTROLS & FUNCTIONS

## FRONT PANEL - RECEIVER



**1 ISP PINHOLE:** This button is reserved for factory use only.

**2 STD/UPDATE SWITCH:** This switch is reserved for factory use only.

**Note:** This should be left on the default setting of “**STD**” for normal operation.

**3 RS-232 PORT:** Connect to a PC, laptop, or serial controllable device for the extension of RS-232 signals between both ends of the HDBaseT™ connection.

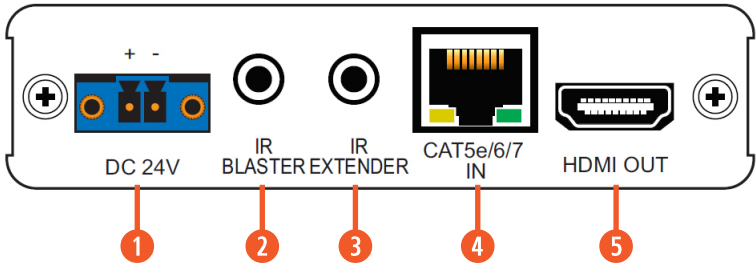
**4 POWER LED:** This LED will illuminate to indicate the unit is on and, receiving power.

**SYNC LED:** This LED will illuminate when a live input source is detected.



# OPERATION CONTROLS & FUNCTIONS

## BACK PANEL - RECEIVER



**❶ DC 24V TERMINAL BLOCK:** Plug the 24V DC power adapter into this terminal block and connect it to an AC wall outlet for power. (Optional)

**Note:** This connection is not required if the unit is receiving power via 24V PoC from the Transmitter.

**❷ IR BLASTER PORT:** Connect to an IR Blaster to transmit IR signals from the other end of the HDBaseT™ connection to devices within direct line-of-sight of the IR Blaster.

**❸ IR EXTENDER PORT:** Connect to the provided IR Extender to receive IR control signals and extend them to devices connected to the other end of the HDBaseT™ connection. Ensure that the remote being used is within direct line-of-sight of the IR Extender.

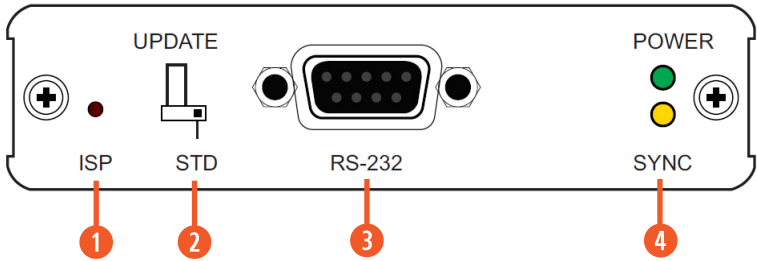
**❹ CAT5E/6/7 IN PORT:** Connect to a compatible HDBaseT™ Transmitter with a single CAT5e/6/7 cable for transmission of all data signals. 24V PoC can also be supplied to, or received from, a connected compatible Transmitter.

**Note:** The 24V PoC function is designed to power, or receive power from, compatible Transmitter units only. Non-PoC Transmitters will need their own power supply. Other brands of Transmitter may not be compatible.

**❺ HDMI OUT PORT:** Connect to an HDMI TV, monitor, or amplifier for digital video and audio output.

# OPERATION CONTROLS & FUNCTIONS

## FRONT PANEL - TRANSMITTER



**1 ISP PINHOLE:** This button is reserved for factory use only.

**2 STD/UPDATE SWITCH:** This switch is reserved for factory use only.

**Note:** This should be left on the default setting of “**STD**” for normal operation.

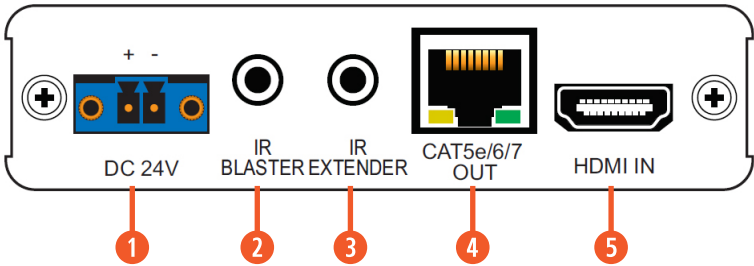
**3 RS-232 PORT:** Connect to a PC, laptop, or serial controllable device for the extension of RS-232 signals between both ends of the HDBaseT™ connection.

**4 POWER LED:** This LED will illuminate to indicate the unit is on and, receiving power.

**SYNC LED:** This LED will illuminate when a live input source is detected.

# OPERATION CONTROLS & FUNCTIONS

## BACK PANEL - TRANSMITTER



**❶ DC 24V TERMINAL BLOCK:** Plug the 24V DC power adapter into this terminal block and connect it to an AC wall outlet for power. (Optional)

**Note:** This connection is not required if the unit is receiving power via 24V PoC from the Receiver.

**❷ IR BLASTER PORT:** Connect to an IR Blaster to transmit IR signals from the other end of the HDBaseT™ connection to devices within direct line-of-sight of the IR Blaster.

**❸ IR EXTENDER PORT:** Connect to the provided IR Extender to receive IR control signals and extend them to devices connected to the other end of the HDBaseT™ connection. Ensure that the remote being used is within direct line-of-sight of the IR Extender.

**❹ CAT5E/6/7 IN PORT:** Connect to a compatible HDBaseT™ Receiver with a single CAT5e/6/7 cable for transmission of all data signals. 24V PoC can also be supplied to, or received from, a connected compatible Receiver.

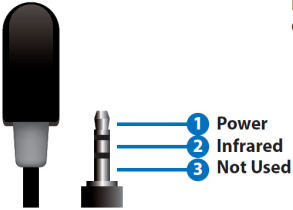
**Note:** The 24V PoC function is designed to power, or receive power from, compatible Receiver units only. Non-PoC Receivers will need their own power supply. Other brands of Receiver may not be compatible.

**❺ HDMI IN PORT:** Connect to HDMI source equipment such as a media player, game console, or set-top box. DVI sources are supported with the use of an HDMI to DVI adapter.

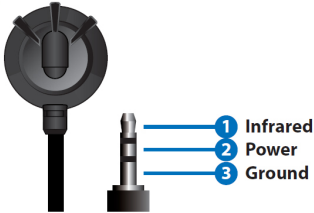
CABLE PINOUTS / RS-232 BYPASS PINOUT / HDBASET™ FEATURES

CABLE PINOUTS

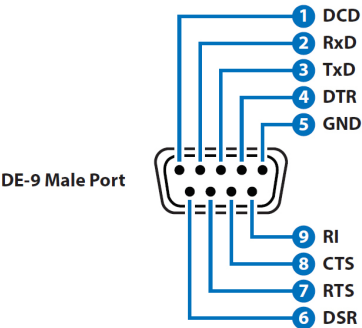
IR Blaster Cable



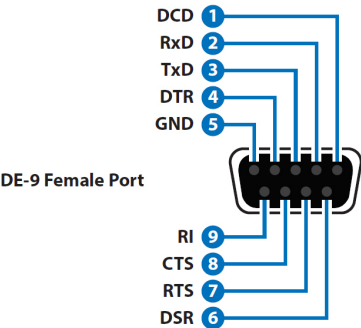
IR Extender Cable



RS-232 BYPASS PINOUT



RECEIVER

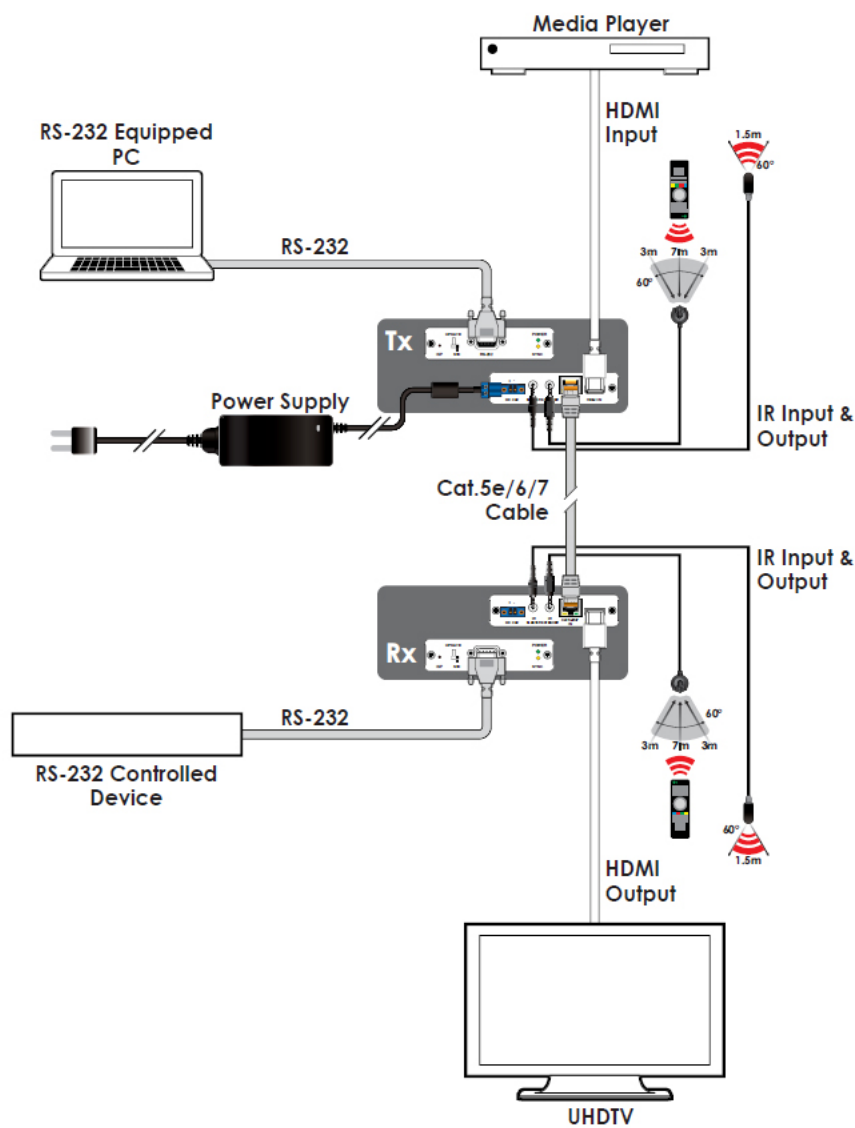


TRANSMITTER

HDBASET™ FEATURES

HDBaseT™ Feature Set	
Video & Audio	Supported
IR Pass-through	Supported
RS-232 Pass-through	Supported
Accept power from Transmitter	Supported
Send power to Transmitter	Supported
LAN Pass-through	Unsupported

# CONNECTION DIAGRAM



## VIDEO SPECIFICATIONS

Receiver Supported Resolutions (Hz)	Input	Output
	HDBT	HDMI
720x400p@70/85	✓	✓
640x480p@60/72/75/85	✓	✓
720x480i@60	✓	✓
720x480p@60	✓	✓
720x576i@50	✓	✓
720x576p@50	✓	✓
800x600p@56/60/72/75/85	✓	✓
848x480p@60	✓	✓
1024x768p@60/70/75/85	✓	✓
1152x864p@75	✓	✓
1280x720p@50/60	✓	✓
1280x768p@60RB/60/75/85	✓	✓
1280x800p@60RB/60/75/85	✓	✓
1280x960p@60/85	✓	✓
1280x1024p@60/75/85	✓	✓
1360x768p@60	✓	✓
1366x768p@60RB/60	✓	✓
1400x1050p@60RB/60	✓	✓
1440x900p@60RB/60/75	✓	✓
1600x900p@60RB	✓	✓
1600x1200p@60	✓	✓
1680x1050p@60RB/60	✓	✓
1920x1080i@50/60	✓	✓
1920x1080p@24/25/30	✓	✓
1920x1200p@60RB	✓	✓
2560x1440p@60RB	✗	✗
2560x1600p@60RB	✗	✗
2048x1080p@24/25/30	✓	✓
2048x1080p@50/60	✓	✓
3840x2160p@24/25/30	✓	✓
3840x2160p@50/60 (4:2:0)	✓	✓

# VIDEO SPECIFICATIONS

Receiver Supported Resolutions (Hz)	Input	Output
	HDBT	HDMI
3840x2160p@24/25/30, HDR10 AVLC	AVLC	✓
3840x2160p@50/60 (4:2:0), HDR10 AVLC	AVLC	✓
3840x2160p@50/60 AVLC	AVLC	✓
4096x2160p@24/25/30	✓	✓
4096x2160p@50/60 (4:2:0)	✓	✓
4096x2160p@24/25/30, HDR10	✗	✗
4096x2160p@50/60 (4:2:0), HDR10	✗	✗
4096x2160p@50/60	✗	✗

Transmitter Supported Resolutions (Hz)	Input	Output
	HDMI	HDBT
720x400p@70/85	✓	✓
640x480p@60/72/75/85	✓	✓
720x480i@60	✓	✓
720x480p@60	✓	✓
720x576i@50	✓	✓
720x576p@50	✓	✓
800x600p@56/60/72/75/85	✓	✓
848x480p@60	✓	✓
1024x768p@60/70/75/85	✓	✓
1152x864p@75	✓	✓
1280x720p@50/60	✓	✓
1280x768p@60RB/60/75/85	✓	✓
1280x800p@60RB/60/75/85	✓	✓
1280x960p@60/85	✓	✓
1280x1024p@60/75/85	✓	✓
1360x768p@60	✓	✓
1366x768p@60RB/60	✓	✓
1400x1050p@60RB/60	✓	✓
1440x900p@60RB/60/75	✓	✓
1600x900p@60RB	✓	✓

## VIDEO SPECIFICATIONS

Transmitter Supported Resolutions (Hz)	Input	Output
	HDMI	HDBT
1600x1200p@60	✓	✓
1680x1050p@60RB/60	✓	✓
1920x1080i@50/60	✓	✓
1920x1080p@24/25/30	✓	✓
1920x1200p@60RB	✓	✓
2560x1440p@60RB	✗	✗
2560x1600p@60RB	✗	✗
2048x1080p@24/25/30	✓	✓
2048x1080p@50/60	✓	✓
3840x2160p@24/25/30	✓	✓
3840x2160p@50/60 (4:2:0)	✓	✓
3840x2160p@24/25/30, HDR10 AVLC	✓	AVLC
3840x2160p@50/60 (4:2:0), HDR10 AVLC	✓	AVLC
3840x2160p@50/60 AVLC	✓	AVLC
4096x2160p@24/25/30	✓	✓
4096x2160p@50/60 (4:2:0)	✓	✓
4096x2160p@24/25/30, HDR10	✗	✗
4096x2160p@50/60 (4:2:0), HDR10	✗	✗
4096x2160p@50/60	✗	✗



AUDIO / CABLE SPECIFICATIONS

AUDIO SPECIFICATIONS

DIGITAL AUDIO

HDMI INPUT/OUTPUT	
LPCM	
Maximum Channels	8 Channels
Sampling Rate (kHz)	32, 44.1, 48, 88.2, 96, 176.4, 192
BITSTREAM	
Supported Formats	Standard & High-Definition

CABLE SPECIFICATIONS

CABLE LENGTH	1080p		4K30	4K60
	8-bit	12-bit	(4:4:4) 8-bit	(4:4:4) 8-bit
High Speed HDMI Cable				
HDMI Output	32 ft / 10 M	26 ft / 5 M	26 ft / 5 M	10 ft / 3 M
Ethernet Cable				
CAT5e/6	197 ft / 60 M		16 ft / 35 M	
CAT6a/7	230 ft / 70 M		131 ft / 40 M	

- **1080p (FHD Video)**
  - Up to 1080p@60Hz, 12-bit color
  - Data rates lower than 5.3Gbps or below 225MHz TMDS clock
- **4K30 (UHD Video)**
  - 4K@24/25/30Hz & 4K@50/60Hz (4:2:0), 8-bit color
  - 4K@50/60Hz (4:4:4, 8-bit) with AVLC active
  - Data rates higher than 5.3Gbps or above 225MHz TMDS clock but below 10.2Gbps
- **4K60 (UHD+ Video)**
  - 4K@50/60Hz (4:4:4, 8-bit), AVLC required over HDBaseT™
  - 4K@50/60Hz (4:2:0, 10-bit HDR), AVLC required over HDBaseT™
  - Data rates higher than 10.2Gbps

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