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**VIDEO WALLS VIDEO PROCESSORS  
VIDEO MATRIX SWITCHES  
EXTENDERS SPLITTERS WIRELESS  
CABLES & ACCESSORIES**

## PRODUCT MANUAL

Model: HBT2-C6BPOC-SET



**HDMI2.0 HDBaseT CAT6/7 Extender Set  
with Bi-directional/IR/RS-23/PoC 100M**

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Revision History		
Rev.	Changes	Date
0.00	Initial Release	08/05/2017



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## SECTION I : GETTING STARTED

### 1.1 IMPORTANT SAFEGUARDS

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

**Avenview warranty certificate please refer to page #14**

**Warranty does not include:**

- Any product on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - Repair or attempted repair by anyone not authorized by us.
  - Any damage of the product due to shipment.
  - Removal or installation of the product.
  - Causes external to the product, such as electric power fluctuation or failure.
  - Use of supplies or parts not meeting our specifications.
  - Normal wear and tear.
  - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

### 1.2 SAFETY GUIDELINES

The HBT2-C6BPOC-SET, HDMI HDBaseT Extender SET has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the HBT2-C6BPOC-SET should be used with care. Read the following safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.





- ⚠ Do not dismantle the housing or modify the module.
- ⚠ Dismantling the housing or modifying the module may result in electrical shock or burn.
- ⚠ Refer all servicing to qualified service personnel.
- ⚠ Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards.
- ⚠ Keep the device away from liquids.
- ⚠ Spillage onto the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- ⚠ If the unit appears damaged, have the module checked by a qualified service engineer before using it again.
- ⚠ Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



## 1.3 REGULATORY NOTICES FEDERAL COMMUNICATIONS COMMISSION (FCC)

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Avenview is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment.

Warning Symbols	Description
	<p>ONLY USE THE PROVIDED POWER CABLE OR POWER ADAPTER SUPPLIED. DO NOT TAMPER WITH THE ELECTRICAL PARTS. THIS MAY RESULT IN ELECTRICAL SHOCK OR BURN.</p>
	<p>THIS WARNING SYMBOL MEANS DANGER. WHEN THIS SYMBOL IS PLACED, YOU ARE IN AN ENVIRONMENT THAT CAN CAUSE BODILY INJURY.</p>
	<p>DO NOT TAMPER WITH THE UNIT. DOING SO WILL VOID THE WARRANTY AND CONTINUED USE OF THE PRODUCT.</p>
	<p>THE CIRCUIT BOARDS ARE VERY SENSITIVE TO STATIC DISCHARGE. PLEASE ENSURE IF RACK MOUNTED OR INSTALLED ON A SURFACE, IT SHOULD BE IN A GROUNDED ENVIRONMENT.</p>

	<p><b>WARNING</b></p> <p>Read &amp; understand userguide before using this device.</p> <p>Failure to follow the proper installation instructions could result in damage to the product and preventing expected results.</p>
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## 2. INTRODUCTION

The Avenview HBT2-C6BPOC-SET HDMI HDBaseT CAT6/7 Extender SET extends 4K@60Hz 18G (600Mhz) high definition video, multi-channel digital audio, data formats IR/RS232 and POC up to 100m (330ft)/70m (230ft) to any display over Cat5e/6/7.

This unique model allows 18Gbps data to be encoded and delivered uncompressed 4K@60 (UHD or DCI) 4:4:4 8bit or HDR signal with 4:2:0 10 bit chroma sub sampling over certified 625Mhz CAT6/7 cables to a HDMI 4K Display.

**Video Signals:** 4K@60 (UHD/DCI), 3D, 8/10/12 Deep Color, and Full HD 1080p@60 Hz/48-bit color depth.

**Audio signals:** Uncompressed 7.1ch digital

**Data Signals:** Bi-Directional IR signals 20 KHz to 60 KHz and RS-232 over CAT5/6.

The **HBT2-C6BPOC-SET** includes two (2) units: Transmitter unit (**TX**) **HBT2-C6BPOC-S** and Receiving unit (**RX**) **HBT2-C6BPOC-R** with one (1) RJ45 output port which allows the user to extend video, audio and data signals up to 100m 330ft. Equipped with Bi-directional (POC) power over cable for easy installs where power receptacle is unavailable, just simply connect with one supplied power supply on either side(Source or Mointor)

The **HBT2-C6BPOC-SET** supports data pass through via the bi- directional IR and RS-232 ports on both the TX and RX units, allowing the users to transmit any IR or RS-232 information to the desired device to be controlled .

The HBT2-C6POE-SET offers the most convenient solution for extending video and audio applications over long distances with high quality results from 4K GPU's, Xbox,Playstation and Blu-Ray devices.

### Features

- Support HDMI specifications Input: HDMI 1.4/2.0a compliant and DVI compatible;
- Supports HDCP 2.2 also backward compatible;
- Distance: Full HD 1080p up to 100m (330ft) from the HDMI source 48-bit
- Distance: 4K@60 up to 100m(230ft)/100m(330ft) using CAT6A or Belden comparable 4K rated STP cable;
- Supported resolutions 480p up to 1080p/3D/4K@60 (4:4:4) 8-bit /4K@60HDR10(4:2:0)10-bit;
- Bi-Directional power feature (Only one 12V power supply can be used to send power to the TX or RX);
- Support PoC (Power over Cable) supplies power to paired unit the TX/RX over UTP/STP;
- EDID Bypass and EDID adjustment for HDMI 2.0 pixel clock over 340MHz;
- Audio Supported: 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio;
- Support full frequency IR signal from 20KHz to 60KHz;
- Bi-directional IR/RS-232 pass-through;
- Full Duplex RS-232 control up to 115,200 bps.
- Supports CEC bypass;
- 3D support: Follow by Display / TV's EDID.
- Wall mounting bracket included.

**The QUALITY and TRANSMISSION VIDEO/AUDIO SIGNALS** depends on the characteristics and quality of the UTP /STP cables. Higher resolutions and longer transmission distances require low skew cables (<25ns/100m) for best performance.






**Unshielded CAT6** with metal RJ-45 connectors is recommended depending on the enviroment is controlled regarding EMI interference.

**Sheilded CAT6** with metal RJ-45 connectors is recommended for commercial enviroments where EMI interference is high and not controlled.



## 2.1 PACKAGE CONTENTS

Before you start the installation of the HBT2-C6BPOC-SET, please ensure that the packaging has the listed items below.

Line	Description	Qty	Product
1	HBT2-C6POC-S (Transmitter) HBT2-C6POC-R (Receiver)	x1 x1	
2	Power Brick (12V 2A) + C7 Either Standard US power cord* or International power cord (UK,EU,AUS) *Based on order request	x1	
3	IR Blaster IR Receiver	x1 x1	
4	Terminal Block Connector -3 Pin	x1	
5	Product User Manual	x1	

## 2.2 BEFORE INSTALLATION

### ATTENTION

- To prevent airflow restriction, allow clearance around the ventilation openings to be at least: ONE Inch (25.4 mm).
- Unauthorized changes or modifications could void the user's authority to operate the equipment.
- Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.
- Place the product on an even and stable surface. If the product falls, it may cause an injury to a person or malfunction.
- Do not place the product in high temperatures (over 50°C), or low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Do not twist or pull by force ends of the UTP /HDMI cable. It can cause malfunction.
- Keep the device away from water. If the unit becomes wet, power off immediately.
- Installation of the equipment must comply with local and national electrical codes.
- Take care when connecting units to the electrical power circuit, incase the maximum rated circuit is not overloaded



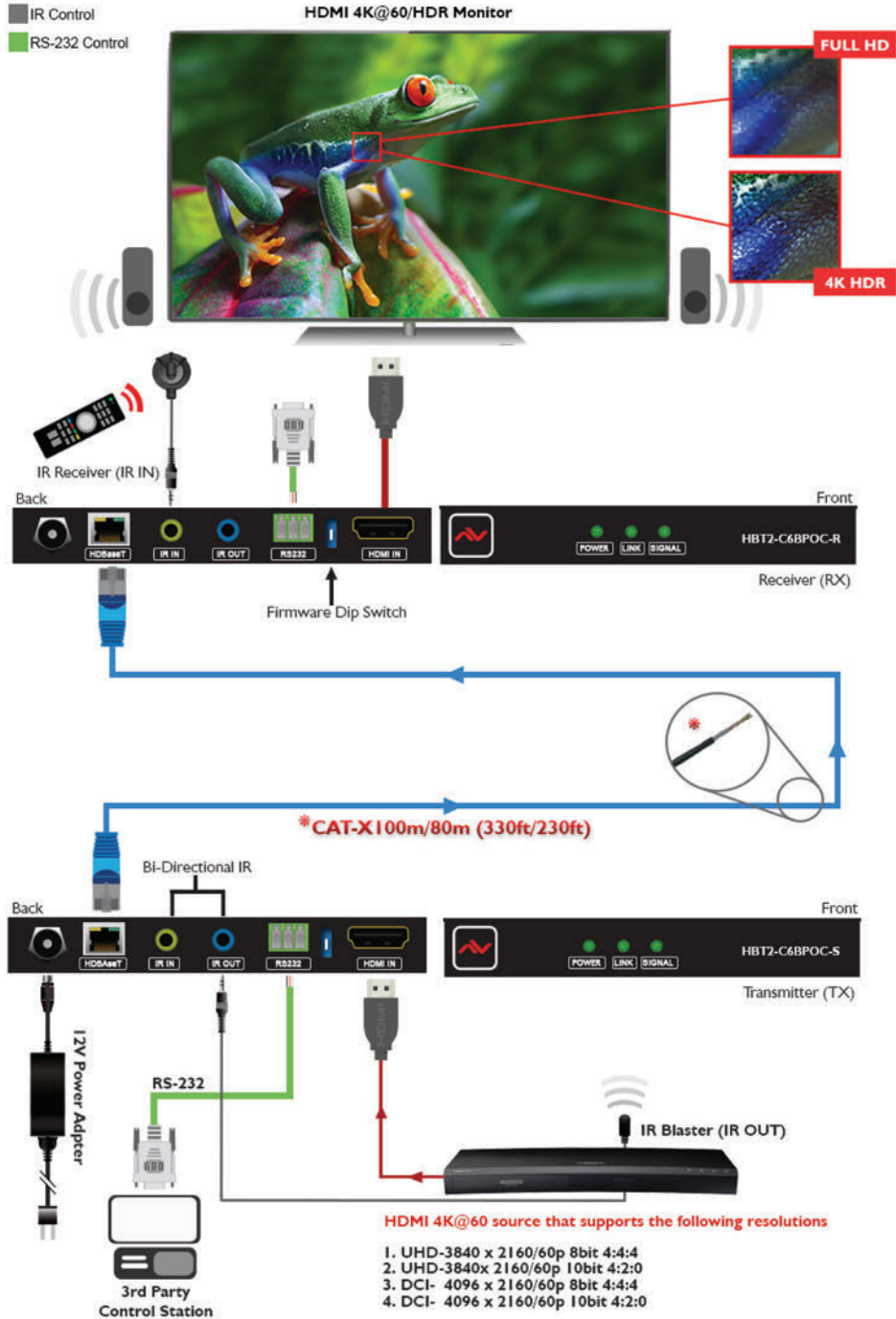
## 2.3 APPLICATION DIAGRAM

### 4K HDBaseT Extender

1080p60 = 100m (330 feet) CAT6E  
 4K@60 UHD = 100m (330 feet) CAT6E  
 4K@60 HDR10 DCI = 70m (230 feet) CAT6E  
**Application Diagram**

**CABLE INDEX**

- Input / Output
- CAT-5e / CAT-6
- IR Control
- RS-232 Control



\*Belden 2183P and 2183R cables were designed specifically for optimal performance in 4K HDBaseT™ transmission.





## 2.4 PANEL DESCRIPTION

### 2.4.1 I/O PANNEL (Transmitter, HBT2-C6BPOC-S) Rear



<b>1. POWER JACK:</b> 12v DC Power supply female connection, Screw type power connection. Only one power supply needed per SET.	<b>5. RS-232:</b> Connect to a device that has the ability to send/receive RS-232 control commands 3 Pin to D Sub 9-pin male cable) TX,RX,GND (L to R).
<b>2. RJ45:</b> Connect UTP/STP cable for transmitting video, audio, data and POC to the compatible HDBaseT Receiver unit.	<b>6. DIP SWITCH:</b> to activate operation Mode <b>ON:</b> F/W upadte <b>OFF:</b> Normal Operating mode
<b>3. IR IN:</b> 3.5mm IR female port for connecting IR Receiver cable. Place IR Remote within direct line of site with the IR Receiver.	<b>7. HDMI IN:</b> Connect HDMI source via Male to Male HDMI Cable Max 10ft- with Blu-ray player or any HDCP Digital player.
<b>4. IR OUT:</b> 3.5mm IR Blaster cable for IR signal being transmitted. Place IR Blaster in front of the IR window/ direct site of the device to control.	

### 2.4.2 I/O PANNEL (Transmitter, HBT2-C6BPOC-S) Front

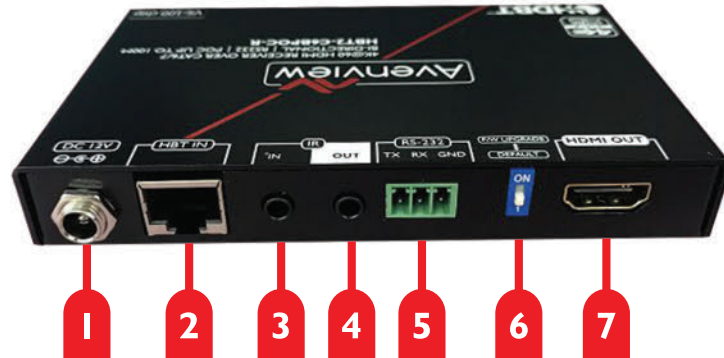


- 8. LED LIGHTS:**
- **POWER LED:** Steady BLUE LED light ON
  - **LINK LED:** Always ON BLUE LED light indicates link is established
  - **SIGNAL LED:** HDMI Signal detected BLUE LED Light ON



## 2.4 PANEL DESCRIPTION (Cont)

### 2.4.3 I/O PANNEL (Receiver, HBT2-C6BPOC-R) Rear



<p><b>1. POWER JACK:</b> 12v DC Power supply female connection, Screw type power connection. Only one power supply needed per SET.</p>	<p><b>5. RS-232:</b> Connect to a device that has the ability to send/receive RS-232 control commands 3 Pin to D Sub 9-pin male cable) TX,RX,GND (L to R).</p>
<p><b>2. RJ45:</b> Connect UTP/STP cable for transmitting video, audio, data and POC to the compatible HDBaseT Receiver unit.</p>	<p><b>6. DIP SWITCH:</b> to activate operation Mode  <b>ON:</b> F/W upadte  <b>OFF:</b> Normal Operating mode</p>
<p><b>3. IR IN:</b> 3.5mm IR female port for connecting IR Receiver cable. Place IR Remote within direct line of site with the IR Receiver.</p>	<p><b>7. HDMI OUT:</b> Connect HDMI display via Male to Male HDMI Cable Max 10ft- with HDCP compatible display/monitor.</p>
<p><b>4. IR OUT:</b> 3.5mm IR Blaster cable for IR signal being transmitted. Place IR Blaster in front of the IR window/ direct site of the device to control.</p>	

### 2.4.4 I/O PANNEL (Receiver, HBT2-C6BPOC-R) Rear



- 8. LED LIGHTS:**
- **POWER LED:** Steady BLUE LED light ON
  - **LINK LED:** Always ON BLUE LED light indicates link is established
  - **SIGNAL LED:** HDMI Signal detected BLUE LED Light ON



### 3. IR EXTENDERS

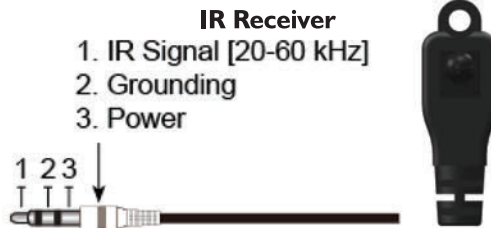


#### IR Sockets on units

**IR BLASTER:** plug in the supplied IR blaster cable to port #4/in Section 2.4 as shown on the rear panel description to flash/send all IR command signals on the devices IR window. This will control the local devices with the IR signals received from the IR remote or control system on the other unit.

**IR RECEIVER:** plug in the supplied IR receiver cable to port #3/ in Section 2.4 as shown on rear panel description to receive all IR command signals from the IR remote control within the room.

#### Wiring Configuration of IR (3.5mm Jack)



**NOTE:** Incorrect placement of IR Blaster and IR Receiver into the extender may result in the failure of the IR extenders. Please check carefully before plugging in the IR extender to the respective IR sockets.

It is clearly marked  
IR OUT= IR BIASTER IR IN=IR RECEIVER  
WARRANTY WILL NOT COVER THE  
DAMAGE.



## 4. INSTALLATION

To setup the Avenview HBT2-C6BPOC-SET HDMI 4K@60Hz Extender please follow these steps for connecting the devices:

1. Turn off all devices including monitors / TV
2. Connect to a HDMI source (such as a Blu-Ray Disc player) to the Transmitter HBT2-C6BPOC-S
3. Connect HBT2-C6BPOC-R with a CAT6 cable with shielded ends, then connect to display with certified 4K HDMI cable.
4. Plug in 12V 2A DC power (supplied) either on the TX or RX side only one power needed.
5. Power on HDCP HDMI display
6. Power on HDMI Sources.

### 4.1 SUPPORTED RESOLUTION TABLE

Resolution	8bit			
	RGB	YCbCr 4:2:0	YCbCr 4:2:2	YCbCr 4:4:4
3840x2160p24	Pass		Pass	Pass
3840x2160p25	Pass		Pass	Pass
3840x2160p30	Pass		Pass	Pass
3840x2160p50	Pass	Pass	Pass	Pass
3840x2160p60	Pass	Pass	Pass	Pass
4096x2160p24	Pass		Pass	Pass
4096x2160p24	Pass		Pass	Pass
4096x2160p25	Pass		Pass	Pass
4096x2160p30	Pass		Pass	Pass
4096x2160p50	Pass	Pass	Pass	Pass
4096x2160p60	Pass	Pass	Pass	Pass

Resolution	10 bit			
	RGB	YCbCr 4:2:0	YCbCr 4:2:2	YCbCr 4:4:4
3840x2160p24	Pass			Pass
3840x2160p25	Pass			Pass
3840x2160p30	Pass			Pass
3840x2160p50				
3840x2160p60		Pass		
4096x2160p24	Pass			Pass
4096x2160p24	Pass			Pass
4096x2160p25	Pass			Pass
4096x2160p30	Pass			Pass
4096x2160p50				
4096x2160p60		Pass		

Resolution	12 bit			
	RGB	YCbCr 4:2:0	YCbCr 4:2:2	YCbCr 4:4:4
3840x2160p24	Pass			Pass
3840x2160p25	Pass			Pass
3840x2160p30	Pass			Pass
3840x2160p50				
3840x2160p60		Pass		
4096x2160p24	Pass			Pass
4096x2160p24	Pass			Pass
4096x2160p25	Pass			Pass
4096x2160p30	Pass			Pass
4096x2160p50				
4096x2160p60		Pass		



## 5. GENERAL TROUBLESHOOTING

CHALLENGES	POSSIBLE SOLUTION
<b>NO IMAGE ON DISPLAY</b>	<ul style="list-style-type: none"> <li>• Check if connection to the source and the display are correct.</li> <li>• Ensure that display device supports 480p, 720p and 1080p 4k@ 60 resolution</li> <li>• Terminated to 568B standard with Shielded Ends Recommended</li> <li>• High Quality CAT5/6 Cable WITH (625 MHz rated)helps signal transmission</li> <li>• Please use the supplied power supply.</li> <li>• Check LED link light see (Section #2.4 Panel Description)</li> </ul>
<b>SCREEN (DISPLAY) ARTIFACTS APPEAR CHECK RESOLUTION</b>	<ul style="list-style-type: none"> <li>• This product supports 480p up to 4K@60Hz resolution.</li> <li>• Check the HDMI connector is not bent.</li> <li>• If outputting from a PC. Check the maximum resolution range of the graphics card.</li> <li>• Check all connections are seated properly to the devices.</li> </ul>
<b>SET-TOP BOX ( NO PICTURE)</b>	<ul style="list-style-type: none"> <li>• HDBaseT and HDMI I.3 standards support CLOCK STRETCHING for i2c buss protocol.</li> <li>• Example set top boxes like Scientific Atlantic results no picture. This can be resolved by swapping out the box for a newer version that supports HDMI I.3 not HDMI I.2</li> </ul>
<b>NO INFRARED COMMUNICATION BETWEEN SOURCE/DISPLAY</b>	<ul style="list-style-type: none"> <li>• Ensure the UTP cable is run within the wall away from device that can cause RFI/EMI and High Voltage power lines.</li> <li>• Please check manual of device to ensure proper placement of IR Blaster on IR EYE.</li> <li>• Some LED /plasma TV have EMI interference with the IR receiver, please place the IR Rx 3-6” away from Screen.</li> </ul>

	RECOMMENDED HDBaseT Test Guidelines
<b>END-TO-END TESTING</b>	HDBaseT system, a final end-to-end test of all the A/V components should take place. These tests include checking the HDMI stream at the far end (sink end), the clock rate, frame compare, video pattern, audio, EDID and HDCp with Quantum 780D (recommended).
<b>PASSIVE MONITORING:</b>	Passive monitoring enables an integrator to view the HDCP transactions, EDID exchange, as well as the connection events between the actual devices in the network.
<p>Additional info on Guidelines to Test &amp; Troubleshoot HDBaseT Systems can be retrieved from our website under the category Downloads for this product HBT2-C6BPOC-SET.</p> <p>Readers can view the new 4K rated category cable "Belden 4K Media Cables" press release to learn more about why a specified cable is important for delivering proper HDBaseT signals to its final destination.</p>	



## 6. SPECIFICATIONS

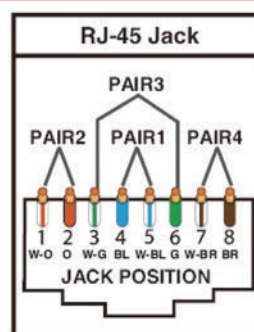
ITEM	DESCRIPTION	
UNIT	HBT2-C6BPOC-S	HBT2-C6BPOC-R
UNIT DESCRIPTION	HDMI 2.0 Transmitter	HDMI 2.0 Receiver
HDMI COMPLIANCE	HDMI 2.0a, Full 3D & 4K@60Hz	
HDCP	YES HDCP 2.2 and backward compatible	
BANDWIDTH	Single-Link 600MHz (18 Gbps)	
DISTANCE	480p to 1080p 100m (330feet)	
DISTANCE	3840x2160@60Hz 100m (330feet)/4096x2160@60Hz 80m (262feet)	
COLOR SPACE	RGB/YUV	
CHROMA SUBSAMPLING	4:4:4/4:2:2/4:2:0 See Section 4.1 Resolution Table	
RESOLUTION-INPUT	480p to 1080p60 / 3840x2160/4096x2160 (4:4:4)8-bit /(4:2:0)HDR 10bit	
RESOLUTION-OUTPUT	480p to 1080p60 / 3840x2160/4096x2160 (4:4:4)8-bit /(4:2:0)HDR 10bit	
RESOLUTION-HDR	4K@24 4:2:2/ 4K@60 4:2:0 -10 bit	
AUDIO SUPPORT	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby® Digital, DTS 5.1, Dolby Digital Plus™ Dolby TrueHD, DTS-HD Master Audio™, Dolby Atmos®.	
IR SUPPORT	Bi-Directional IR support	
RS-232 SUPPORT	Bi-Directional RS-232 support	
ESD PROTECTION	Human body model - ±19kV (air-gap discharge) & ±12kV (contact discharge) - Core chipset — ±8kV	
INPUT CONNECTION	1x HDMI 1x IR 3.5mm 1x RS 232 (TX,RX,GND)	1x RJ 45 HDBaseT 1x IR 3.5mm 1x RS 232 (TX,RX,GND)
OUTPUT CONNECTION	1x RJ 45 HDBaseT 1x IR 3.5mm 1x RS 232 (TX,RX,GND)	1x HDMI 1x IR 3.5mm 1x RS 232 (TX,RX,GND)
DIMENSIONS-INCHES	4.7" X 2.9" X 0.8"	4.7" X 2.9" X 0.8"
WEIGHT	0.27lbs	0.27lbs
POWER SUPPLY	12V 2A DC (Only one power supply needed) POC	
POWER CONSUMPTION	3 Watt (max)	7 Watt (max)
ENVIROMENTAL	OPERATING TEMPERATURE 32° ~ 104°F (0° to 40°C) STORAGE TEMPERATURE -4° ~ 140°F (-20° ~ 60°C) RELATIVE HUMIDITY 20~90% RH (no condensation)	



## 7. CABLE SPECIFICATION

1. All HDMI over CAT6 transmission distances are measured using Belden Media Cables 2183P (plenum) and 2183R (riser) Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, with Bonded-Pair, durable shield and helical drain Ripcord, PVC Jacket using Quantum 780D signal HDMI Video Generator Module Video Pattern Testing.
2. The transmission length is largely affected by the type of category cables, also the type of HDMI sources, and the type of HDMI display. The testing result shows solid UTP cables (usually in the form of 100m or 330ft bulk cable) can transmit further distance in signals than stranded UTP cables (usually in the form of patch cords). Shielded STP connectors are better suit than unshielded UTP connectors. A solid UTP CAT5e/6e/6A cable shows longer transmission length than stranded STP CAT6 cable. For long extension users, solid cables are your only choice.
3. EIA/TIA-568-B termination (T568B) for category cables is recommended for AV standard.
4. To reduce interference among the unshielded twisted pairs of wires in the category cable, it is preferred to use shielded STP cables with shielded connector to improve EMI problems, which occurs in long transmission and commercial environments where EMI/RFI interference is present due to environmental factors.
5. Because the quality of the category cables has the major effects in the transmission and distance of the video and audio signal. Please adhere to all the TIA, BICSI and NEC standard to ensure your end to end solution will be properly installed within the environment. For resolution greater than video 1080p/4K@30 or vesa standards 1920x1200/ 2560x1440, a solid CAT6 or HDBaseT rated cable is the only viable choice.

Data Link TIA/EIA-568-B		
PIN	Color	Function
1	W-O	TX0-
2	O	TX0+
3	W-G	TX1-
4	BL	TX2-
5	W-BL	TX2+
6	G	TX1+
7	W-BR	TXC-
8	BR	TXC+



## 8. CABLE REQUIREMENT

### HDMI Cable

To achieve best results with our HBT2-C6BPOC-SET we highly recommend a Premium High Speed HDMI Cables and Premium High Speed HDMI Cables with Ethernet. To identify the cable is certified it will carry a special anticounterfeit label to differentiate them from other HDMI cables. See picture below.

Premium High Speed Certified HDMI Cables with full 18Gbps 4K (End to End) HDMI Cables support full UHD with Deep Color and High Dynamic Range support . These next generation 4K HDMI cables are also the ONLY HDMI cables specifically designed for systems integrators, corporate, government, medical and other demanding business environments.

Performance features: full UltraHD 4K@60Hz 4:4:4 chroma sampling and 18Gbps bandwidth rating (End to End), is integrated with exclusive commercial features: advanced active chip technology to deliver a full 4K 18Gb signal with 4:4:4 Color Space signal.

### Specifications

Performance Grade: Best

Connector Type 1: HDMI Male

Connector Type 2: HDMI Male

Bandwidth or Speed: 18Gbps (End to End), HDR Support

Resolution: 4K @ 60Hz 4:4:4

Gauge: Up to 15ft: 26AWG. 20ft and up: 24AWG, Please note: Lengths 25ft, 35ft, 50ft

Center Conductor: 99.9% High Purity Copper

Connector Finish: 24K Gold Plated

Shielding: Triple Shielded, Inner 100% Aluminum Mylar Wrap, Outer 100%

Aluminum Mylar Wrap, 85% Tinned Copper Braid

Cable Outer Diameter: 0.33" (8.5 mm)

Jacket Type: PVC

Supports High Dynamic Range (HDR)

Supports Deep Color and x.v. Color

HDMI ATC Certified: Yes  
HDCP and CEC Compliant: Yes  
Category 2 Certified: Yes  
Ethernet Capability: Yes  
Supports Audio Return Channel: Yes  
3D Ready: Yes  
Longer Distance Capability: Yes  
UL Rated: Yes  
UL Rating: CL3  
RoHS Compliant: Yes  
Temperature Rating: 75 deg C  
Voltage: 30V

### Category Cable

Belden 2183P and 2183R cables were designed specifically for optimal performance in 4K HDBaseT transmission. These shielded cables deliver 4K content over 100 meters in a unique, small and sleek design.

Up to 25% smaller than Category 7A  
Easy to bend and fit into small spaces.

Single overall shield construction  
saves significant termination time.

Belden 2183P rated CMP  
for plenum installations

Resistant to rigors of installation  
with Bonded-Pair, durable shield  
and helical drain.

UL Limited Power (LP) rated  
to 0.6A per conductor

Belden 2183R rated CMR  
for riser and other  
non-plenum installations

Designed to be tested specifically  
for optimal 4K UHD/DCI performance

Interoperable with leading  
manufacturers' AV equipment

100% shielding provides protection  
from external noise interference  
with AV Signals.

HDBaseT 4K UHD 100 meters

Support HDBaseT 5Play™\*

100W Power over HDBaseT (POH)

\*5 Play is a registered Trademark of HDBaseT Alliance





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## Avenview Warranty Certificate

AVENVIEW CORP ("Avenview") warrants Avenview-branded product(s) contained in the original packaging against defects in materials and workmanship when used normally in accordance with Avenview's enclosed manual guidelines for a period of THREE (3) YEARS from the date of original retail purchase - Warranty Period. Avenview's published guidelines include but are not limited to information contained in technical specifications, user manuals and service communications.

**LABOR:** During the Warranty Period of THREE (3) YEARS, Avenview will repair or replace the product(s) at no cost using new or used parts equivalent to novel performance and reliability if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Labor applicable to product(s) after Warranty Period. For labor costs, please contact [support@avenview.com](mailto:support@avenview.com).

**PARTS:** During the Warranty Period of THREE (3) YEARS, Avenview will supply new or rebuilt replacements in exchange for defective parts of the product(s) at no cost if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Parts applicable to product(s) after Warranty Period. For part(s) costs, please contact [support@avenview.com](mailto:support@avenview.com).

To obtain Warranty: (a) proof of purchase in the form of a bill of sale or receipted invoice reflecting that the registered product(s) is within warranty period must be presented to obtain warranty service; (b) product(s) must be registered at time of purchase. Failure to do so will result in applicable parts and labor charges. Returning product(s) must be shipped in Avenview's original packaging or in packaging pertaining equal degree of protection to Avenview's products. Both Avenview and purchaser are responsible for freight charges and brokerage fees when shipping the product(s) to the receiver.

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Phone: 1 (866) 508 0269



Email: [support@avenview.com](mailto:support@avenview.com)



**Head Office** Avenview Inc. 11-151 Esna Park Dr, Markham ON, L3R 3B1

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