



Control Your Video

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

HDBaseT™ Lite HDMI over Single CAT5e/6/7 Extender



Model #: SW-C6IRLT-R

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Product Application & Market Sectors



Corporate



House Of Worship



Military



Residential



Education



Industrial



Medical



Aviation



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SECTION I: GETTING STARTED

I.1 IMPORTANT SAFEGUARDS

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

What the warranty does not cover

- 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.
 - External causes 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.

I.2 SAFETY INSTRUCTIONS

The SW-C6IRLT-R HDMI Extender has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the SW-C6IRLT-R 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 module away from liquids.
- ⚠ Spillage into 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.
- ⚠ 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)

This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate 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>DO NOT TAMPER WITH THE UNIT. DOING SO WILL VOID THE WARRANTY AND CONTINUED USE OF THE PRODUCT.</p>
	<p>THE VIDEO BOARDS ARE VERY SENSITIVE TO STATIC. PLEASE ENSURE IF RACK MOUNTED OR INSTALLED ON A SURFACE, IT SHOULD BE IN A GROUNDED ENVIROMENT.</p>

	<p>⚠ WARNING</p> <p>Read & understand user guide 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 HDBaseT™ Lite HDMI over Single CAT5e/6/7 Extender incorporating 2-way IR signal transfer allows for a more efficient system setup and is easy to install. Uncompressed video and audio can be transmitted to distances of up to 60 meters (1080p) or up to 35 meters (4K×2K) and supports High Definition Audio and 3D signals. Designed with HDBaseT Lite technology for greater flexibility in custom installations with full HDMI and 2-way IR control signal transfer over a single CAT5e/6/7 cable.

FEATURES

- * HDMI including 3D and 4K×2K (Ultra HD) support, HDCP and DVI compliant
- * Supports HDCP repeater and CEC bypass
- * Supports HDBaseT Lite Technology including 2-Way IR and RS-232
- * Supports transmission distance of up to 60 meters through CAT5e/6/7 cable (1080p or 3D) or 35 meters (4K×2K)
- * Supports HDMI input up to 15 meters at 8-bit resolution or 10 meters at 12-bit resolution and output up to 15 meters at 8-bit or 12-bit resolution
- * Audio support up to LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio
- * Compact size with stylish design

Please Note: When displaying a 3D signal with a higher bandwidth than 225 MHz or a 4K×2K resolution source, a High Speed HDMI cable is required.



2.1 PACKAGE CONTENTS

Before you start the installation of the converter, please check the package contents.

1	HDMI Over Single CAT5e/6/7 Sender	X 1	
2	IR Extender	X1	
3	IR Blaster	X1	
4	5 V/2.6 A DC Power Adaptor	X1	
5	USER'S MANUAL	X 1	

2.2 BEFORE INSTALLATION

- Put the product in a level and stable location. If the product falls, it may cause damage or malfunction to components within the casing.
- Do not place the product in temperatures under 0°C or over 50°C. High humidity may also cause the unit to malfunction.
- Use the DC power adaptor with correct specifications supplied with the unit. If the improper power supply is used, this may result in malfunction of the unit and may cause fire.
- Do not twist or pull by force the ends of the HDMI cable. It can cause malfunction.





To achieve best results with our SW-C6IRLT-R we highly recommend you acquire a high quality 26 or 24 AWG HDMI cable with the below specifications to maintain signal integrity and distances.

- Length: 5m (16ft)
- Bandwidth: 10.2 Gbps data transfer rate
- Supports Resolution: Up to 3840x2160 @ 24Hz and 4096x2160 @ 24Hz, 1080p @ 24Hz / 50/60Hz/3D
- Conductor gauge: 26 / 24 AWG
- Deep Color
- 3D Capable
- CEC
- Ethernet Channel
- Audio Return Channel
- Connector 1: HDMI (Type A) Male
- Connector 2: HDMI (Type A) Male

2.4 APPLICATION DIAGRAM

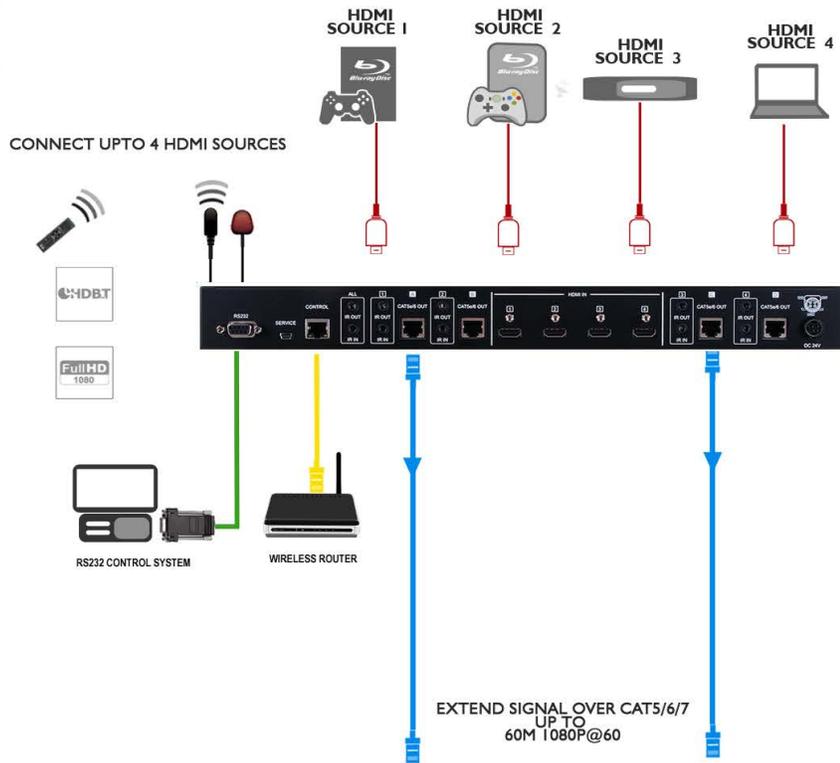
SW-HBT-C6LT-4X4E

1080p(1920x1080) = 60m (196 feet) CAT6E 250MHz
 WXGA(1920x1200) = 60m (196 feet) CAT6E 250MHz

CABLE INDEX

- Input / Output ■
- RS-232 ■
- IR ■
- CAT-5e / CAT-6 ■
- LANNETWORK ■

CONNECT UPTO 4 HDMI SOURCES



EXTEND SIGNAL OVER CAT5/6/7
 UP TO 60M 1080P@60

SW-C6IRLT-R RECEIVER-RX



SW-C6IRLT-R RECEIVER-RX



CONNECT UPTO 4 HDMI SCREENS



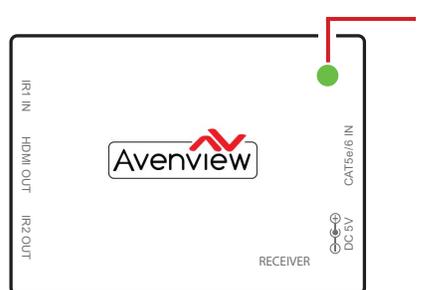
2.5 PANEL DESCRIPTION

2.5.1 RECEIVER FRONT AND REAR PANEL (SW-C6IRLT-R)



1. IR-1 OUT: Connect IR blaster to send IR Signal to source.	2. HDMI IN: Connect to an HDMI source (Blu-ray or Media player) with HDMI Cable.
3. IR-2 IN: Connect to IR Receiver to receive and transmit signal to IR-2 OUT on Receiver unit.	4. DC-5V: Connect the 5V DC power supply to the unit and plug the adaptor into an AC outlet.
5. CAT5e/6 OUT: Connect to receiver unit with a single CAT5e/6/7 cable for transmission of data signals. Yellow LED will illuminate when both transmitter and receiver are powered and connected together.	

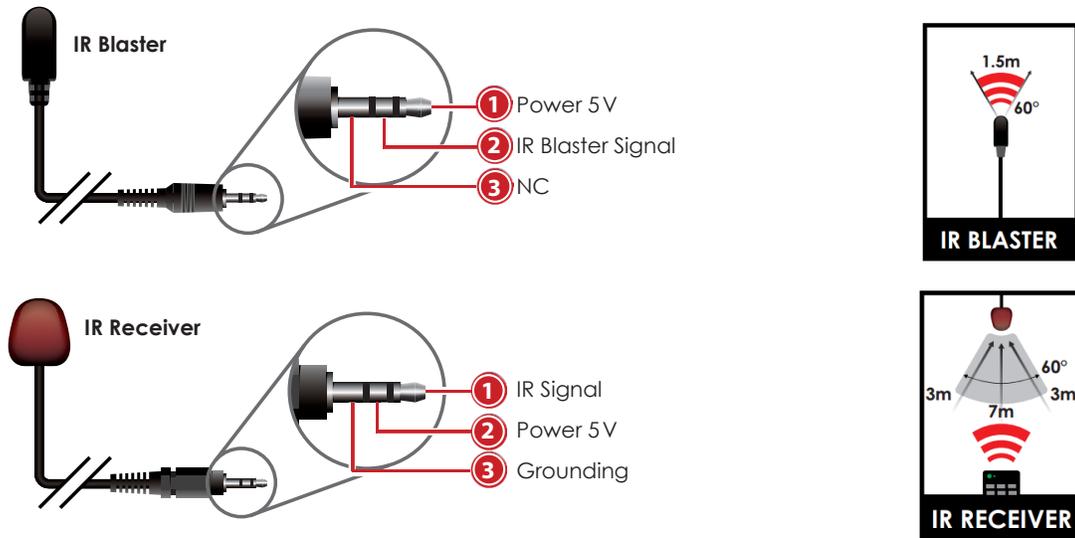
2.5.2 Sender and Receiver Top panels



1. **LED Link:** LED illuminate blue when the devices are connected with a CAT5e/6 cable. If the data transmission has an error the LED will start blinking.



2.5.3 IR Cable Pin Description



3. INSTALLATION (SW-C6IRLT-R)

To setup Avenview **SW-C6IRLT-R** please follow these steps for connecting to a device:

1. Power off display sources such as DVD player, set-top box, PC etc.
2. Connect HDMI video Source to the HDMI input on SW-HBT-C6LT-4X4E or SW-HBT-C6LT-8X8E.
3. Connect the SW-HBT-C6LT-4X4E/8X8E to SW-C6IRLT-R using CAT5e/6/7.
3. Connect the SW-C6IRLT-R to a display/monitor using HDMI cable.
4. Plug in supplied 5V DC power adapter to power jack of SW-C6IRLT-R.
5. Power on all devices, HDMI Source and HD Displays.



4. SPECIFICATIONS

Item	Description
UNITS	SW-C6IRLT-R
UNIT DESCRIPTION	HDBaseTTM Lite HDMI over Single CAT5e/6/7 Extender
Video Bandwidth	300 MHz/10.2 Gbps
HDCP and DVI	Compliant
DATA RATE	5.3 Gbps
HDMI SUPPORTED RESOLUTIONS	480i @ 60Hz, 480p @ 60Hz, 576i @ 50Hz, 576p @ 50Hz, 720p @ 50/60Hz/3D, 1080i @ 50/60Hz, 1080p @ 24Hz / 50/60Hz/3D, ULTRA HD (3840x2160)@24Hz 4K × 2K @ 24Hz
INPUT	1 × CAT5e/6/7, 1 × IR Extender
OUTPUT	1 × HDMI, 1 × IR Blaster
HDMI CABLE	4K2K: (3840X2160@24Hz) ~ 35meter (115 feet) FULL HD: (1080p) ~ 60meter (197 feet)
AUDIO SUPPORT	LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio
DIMENSIONS (L X W X H)	2.2" x 3.2" x 0.88"
WEIGHT	0.14 lbs
POWER SUPPLY	5 V/2.6 A DC (US/EU standards, CE/FCC/UL certified)
POWER CONSUMPTION	5.5 W
<i>Environmental</i>	
OPERATING TEMPERATURE	32° ~ 104°F (0° to 40°C)
STORAGE TEMPERATURE	-4° ~ 140°F (-20° ~ 60°C)
RELATIVE HUMIDITY	20~90% RH (non-condensing)



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.

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.

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. Both Avenview and purchaser are responsible for freight charges and brokerages when shipping the product(s) to the receiver.

NOT COVERED BY THIS WARRANTY

This warranty does not apply to any non-Avenview branded product(s); non-registered Avenview product(s). This warranty does not apply: (a) to cosmetic damage, including but not limited to scratches, dents and broken cords; (b) to damage caused by use with another product; (c) to damage caused by accident, abuse, misuse, liquid contact, fire, earthquake or other external cause; (d) to damage caused by operating the Avenview product(s) outside Avenview's manuals or guidelines; (e) to damage caused by service performed by anyone who is not a representative of Avenview or an Avenview authorized personnel; (f) to defects caused by normal wear and tear or otherwise due to the normal aging of the Avenview product(s), or (g) if any serial number has been removed or defaced from the Avenview product(s).

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