

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

8 Port HDMI LAN Splitter up to I 20M over Single CAT5/6 with IR Support















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Product Application & Market Sectors





Corporate House Of Worship















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SECTION 1: GETTING STARTED

I.I IMPORTANTSAFEGUARDS

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.
- · 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 INSTRUCTIONS

The Avenview HDM-C6IPX-SP8, HDMI Extender has been tested for conformity to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment's, the HDM-C6IPX-SP8 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.

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



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



DO NOT TAMPER WITH THE UNIT, DOING SO WILL VOID THE WARRANTY AND CONTINUED USE OF THE PRODUCT.



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.



AWARNING

Read & understand user guide before using this device.

Failure to follow the proper installation instructions could result in damage to the product and preventing expected results.

2. INTRODUCTION

Avenview HDM-C6IPX-SP8, HDMI Distributed Amplifier is a dedicated 8 port HD splitter designed to provide extra distance and extra IR support to eight displays over CAT6 cable. We have engineered a newer chipset providing extra PPI in resolution and lower bandwidth so the user can extend any HD display with the resolutions 480i@60Hz to 1080p@50Hz/60Hz to 394 feet (120 meters) away from your HDMI or DvI-D source.

A: The 8 port Tx can extend the compatible Rx units 120 meters over CAT5/6 cable connection point to multipoint.

- Extends HDMI up to 120m over single CAT5E/6
- Supports HDMI, EDID, Support HDCp
- Supports resolution 480i@60Hz to 1080p@50Hz/60Hz
- IR Signal support 20-60kHz
- · LED Front Panel and Rear panel indicators

2.1 PACKAGE CONTENTS

Before you start the installation of HDM-C6IPX-SP8, please check the package contents.

ı	HDM-C6IPX-SP8 Transmitter unit	хI	Aprile à
2	HDM-C6IPX-R Receiver unit (NOT INCLUDED)	хI	
3	IR EXTENDER	хI	•
4	IR BLASTER	хI	
5	POWERADAPTER (5V DC)	x 2	
6	MOUNTING BRACKET		
7	USER'S MANUAL	хI	Township of the second

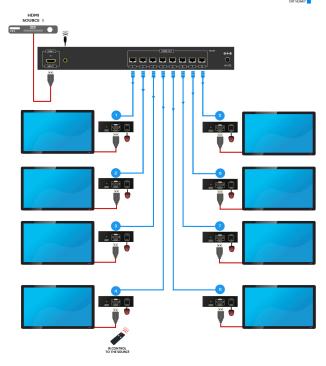
2.2 BEFORE INSTALLATION

- · Place the product in an even and stable location. If the product falls down or drops, it may cause an injury or malfunction.
- Don't place the product in too high temperature (over 50°C), too 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 the ends of the HDMI/UTP cable. It can cause malfunction.

HDM-C6IPX-SP8

1060p(1920x1060) = 120m (394 feet) CATSE 330MHz 1060p(1920x1060) = 100m (330 feet) CATSE 330-500Hz

> CABLE INDEX Input / Output





We highly recommend achieving best results with our HDM-C6IPX-SP8 you acquire a high quality 26 or 24 AWG HDMI cable with the below specifications to maintain signal integrity and distances.

- length: 5m (16ft) to 15m (50ft)
- Bandwidth: 10.2 Gbps data transfer rate
- Supports Resolution; up to 1080p @ 24Hz / 50/60Hz/3D Conductor gauge; 26 / 24 AWG
- Deep Color
- 3D Capable
- CEC
- Ethernet Channel
- Audio Return Channel
- Connector I: HDMI (Type A) Male
- Connector 2: HDMI (Type A) Male

Selecting the Right Cable

Cable length - Always round up when estimating connection distances. It's better to have a bit too much cable than to come up short.

Cable Type - If you plan to enjoy 1080p content (i.e., Blu-ray Discs) or any advanced display technologies (3D, 4K, Deep Color, 120Hz refresh rates, etc.), a High Speed HDMI Cable is recommended.

For 1080i or 720p signals (most cable, broadcast, and satellite HD signals), a Standard HDMI Cable is recommended. **Longer Cable Runs**

In complex home theater set-ups, such as multi-room environments, components can be placed relatively far from each other. There are several technologies available for these installations:

25 to 100 feet - If you need to send a 1080p signal more than 25 feet, or a 1080i signal more than 49 feet, active Avenview extender will help boost the HDMI signal to compensate.



This product is packaged as a set which includes a Transmitter and a Receiver.

2.3.1 Front Panel & Rear Panel (Transmitter, HDM-C6IPX-SP8)



RESET: To rest the unit when no link is established	2 HDMI IN: Connect to HDMI source Max 35ft via HDMI Cable
3 CAT5E/6 OUT: plug in a Cat-5E/6 cable to link and send data (video and audio) to the Reciever unit.	4 IR: Plug the IR Blaster cable for IR signal being recieved. Place IR Blaster within direct site of the device being controlled



7 LED: Link LED will be active when CAT/5E/6 and Recivers are connected and sending video and audio signals to the HDMI Display

2.3.2 Front Panel & Rear Panel (Compatible Receiver, HDM-C6IPX-R)





I +5V DC: Connect to the 5V DC power supply Power LED will light BLUE.	2 CATSE/6 OUT: Plug in a Cat-5E/6 cable to link and receive data (video and audio) from the sender unit or network switch.	
3 DATA LED: When data is transmitting from the source the led will continuously flash YELLOW.	4 LINK LED: When connected to RX or network switch the LED will light GREEN.	

5 RESET: To rest the unit when no link is established 6 HDMI OUT: Connect to HDMI display Max 35ft via HDMI Cable

7 IR IN: Plug the IR Extender cable for IR signal being received. Place IR Extender within direct line of site with the IR Remote.







IR Sockets

- -- IR OUT -IR BLASTER: plug in the IR blaster to the HDMC6IPX-S to emit all IR command signals received from the IR Extender plugged into the Rx (Monitor Side) to control the devices corresponding to the IR signals. Example: Set Top Box or DVD player (The Source).
- -- IR IN IR EXTENDER: plug in the IR Extender into the (RX) Receiver (Monitor Side) to receive all IR command signals from the IR remote controls of the corresponding source. Example: Set Top Box or DVD player (IR Remote Control).





Important IR signals can be affected by very bright fluorescent light and also EMI Interference on the cables so be aware of wher you place and postion your IR cables. Please follow these instructions for best results.



3. INSTALLATION

Please ensure all the package contents are all received before proceeding.

To setup Avenview HDM-C6IPX-SP8 follow these steps for connecting to a device:

- 1. Connect your HDMI source (such as a Blu-ray Disc player) to Transmitter (HDM-C6IPX-SP8).
- 2. Connect your HDMI display (such as a LCD TV) to the receiving 8 unit HDM-C6IPX-R.
- 3. Connect your CAT-5E/6 follow the standards of TIA-568BI AN cable between the transmitting and receiving units.
- 4. Make sure CAT-5E/6 LAN cable is tightly connected and not loose.
- 5. Plug in 12v DC power cord to the power jack of the transmitting unit HDM-C6IP X-SP8
- 6. Plug in the 8 x 5v DC power cord to the power jack of the receiving unit HDM-C6IP X-R.

4. GENERAL TROUBLESHOOTING

PROBLEM	POSSIBLE SOLUTION
NO IMAGE	Check if connection to the source and the display are correct. Ensure that display device supports 480i@60Hz to 1080p@50Hz/60Hz
SCREEN DEFECTS APPEAR	Check the DVI and HDMI connection
DATA TRANSMISSION LIGHT FLASHING SLOW	Check both units and make sure the TX and RX are not Reversed Check the source device is powered ON
DATA TRANSMISSION LIGHT FLASHING FAST/NO IMAGE	Check Graphics card on PC/HD Player. This product supports up to 480i@60Hz to 1080p@50Hz/60Hz resolution.
NO LIGHT ON DATA TRANSMISSION	Check Network cable only use TIA-568B Standard Network cable run is out of range

ITEM	DESCRIPTION		
UNITS	HDM-C6IPX-SP8	HDM-C6IPX-R	
UNIT DESCRIPTION	HDMI Transmitter	Compatible HDMI Receiver	
HDMI COMPLIANCE	F	UII HD	
HDCP COMPLIANCE		Yes	
VIDEO BANDWIDTH	HDTchipset OVER CAT5/6		
SUPPORTED RESOLUTIONS	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz		
RESOLUTION AND DISTANCE (24-BIT)	Full HD: (1080p)-120meter (394feet) (CAT6)		
AUDIO SUPPORT	Surround Sound (up to 7.1 Ch) or Stereo Digital Audio		
IR PASS-THRU	Supportrs 20~60KHz IR devices		
RS-232 SUPPORT	NO		
INPUT	Ix HDMI	Ix RJ45, Ix IR IN	
OUTPUT	8 x RJ45, 1x IR Out	Ix HDMI	
HDMI CONNECTOR	Type A (19 pin female)		
RJ45 CONNECTOR	WE/SS 8p8C with 2 LED		
POWER ADAPTER	DC 12v/ 3A		
POWER CONSUMPTION	24W Max		
DIMENSION L X W X H	11.7" x 4.3" x1.16"		
WEIGHT	llbs		

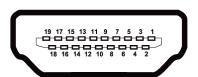
Environmental

OPERATING TEMPERATURE	32° ~ I40°F (0° to 60°C)
STORAGE TEMPERATURE	-4° ~ I40°F (-20° ~ 60°C)
RELATIVE HUMIDITY	20~90% RH (no condensation)

PERFORMANCE GUIDE FOR HDMI OVER CATEGORY CABLE TRANSMISSION

PERFORMANCE RATING		TYPE OF CATEGORY CABLE		
WIRING	SHIELDING	CAT5	CAT5E	CAT6
COLUD	u NSHIEI DED (u Tp)	***	***	****
SOLID	SHIEI DED (STp)	***	***	***
STRANDED	u NSHIEI DED (u Tp)	*	**	**
STRANDED	SHIEI DED (STp)	*	*	**
TERMINATION		pl EASE u SE EIA/TI	A-568-B TERMINATION	(T568B) AT ANy TIME

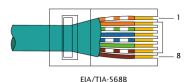




TYPE A (RECEPTACLE) HDMI

pin I	TMDS Data2+	pin I I	TMDS Clock Shield
pin 2	TMDS Data2 Shield	pin 12	TMDS Clock-
pin 3	TMDS Data2-	pin 13	CEC
pin 4	TMDS Data I +	pin 14	Reserved (N.C. on device)
pin 5	TMDS Data I Shield	pin 15	SCI
pin 6	TMDS Data I –	pin 16	SDA
pin 7	TMDS Data0+	pin 17	DDC/CEC Ground
pin 8	TMDS Data0 Shield	pin 18	+5v power
pin 9	TMDS Data0-	pin 19	Hot plug Detect
pin 10	TMDS Clock+		

CAT5E/6 WIRING STANDARD





Notes



Notes



Avenview Warranty Certificate

normally in accordance with Avenview's enclosed manual guidelines for a period of THIREE (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 specifical

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 Averview's published guidelines. Cost of Labor applicable to product(s) after Warranty Period. For labor costs,

PARTS: During the Warranty Period of 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

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. Fallure to do so will result in applicable parts and labor charges. Returning product(s) must be shipped in Averniew's original packaging or in packaging pertaining equal degree of protection to Averniew's. Both Averniew 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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Some states do not allow the inclusion or limitation of incidental or consequential damages, or allow limitations on duration implements of the Warranty Period; theref exclusions may not be applicable to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.







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