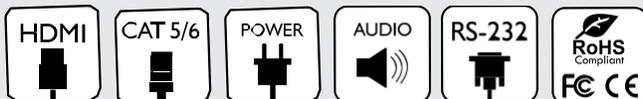




Control Your Video

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

HDMI H.264 IP VIDEOWALL DECODER/ENCODER OVER CAT/X WITH MATRIX MODE & ROTATION SUPPORT



Model #: HDM-C6MWIP-SET-V3

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Product Application & Market Sectors



Corporate



House of Worship



Military



Residential



Education



Industrial



Medical



Aviation



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SECTION 1: GETTING STARTED

1.1 IMPORTANT SAFE GUARDS

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.

1.2 SAFETY INSTRUCTIONS

The Avenview HDM-C6MWIP-SET-V3, HDMI H.264 IP Matrix Decoder/Encoder has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the HDM-C6MWIP-SET-V3 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

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>
---	--



The Avenview HDM-C6MWIP-SET-V3, HDMI H.264 IP Videowall/Matrix Decoder/Encoder delivers end-to-end streaming media over IP networks. The HDM-C6MWIP-SET-V3 is composed of two units a Decoder and an Encoder. The Decoder H.264/MPEG-4 AVC video compression format, it receives the encoded IP signal through LAN port and decodes video/audio signal out through HDMI interface, it also supports stereo de-embedding and streaming resolutions up to 1920 x 1080@60Hz.

FEATURES:

- Flexible PC, WEB GUI iPad control;
- CEC Function on the RX;
- Supports live IP video stream decoding 480p@60Hz to 1920 x 1080@60;
- Supports POE;
- Allows video previewing via iPad App and Windows 7, 10 software 352x288@5Hz;
- Supports multiple interfaces HDMI, DVI signals over IP networks;
- Supports audio embedding and de-embedding;
- Built in-auto scaler and rotation;
- Supports H.264 features baseline profile, main profile and high profile;
- Supports H.264, TCP/IP, Telnet, UDP and IGMP;
- Support Telnet, WEB GUI control and 3rd Party control systems API commands;
- Supports Auto IP, Zero-configuration networking (zeroconf)
- Seamless switching, no black screen, no frame lock.
- Configurable encoding bit rate up to 30 Mbps
- Auto input format detection
- HDCP compliant
- Videowall up to 16X 16
- Reset button on unit

Other features include:

Point to Point - (Direct Connection with CAT5e/6) - 330ft

Point to Multi - point with CAT5e/6 requires a POE Network Switch which supports port based, IGMP v2.0 or above protocol. For large application, we would recommend Cisco SG family and the Cisco Catalyst.

Videowall and Matrix Function – with CAT 5e/6 cable without any signal loss add multiple Sources to multiple encoders which links via LAN by cascading any POE Gigabit Ethernet switches up to 3 levels, to the decoder connected to the HD Monitors at different locations on the Network. Transporting full HD 1080p video and internally H.264 video compression adapts to available network bandwidth if needed while retaining vivid picture with PCM audio.

- NOTE: The QUALITY and TRANSMISSION of the video signals depends on the characteristics and quality of the UTP cables and Network Infrastructure . We recommend any Network Switches with 1GB POE IGMP v2.0 support . Tested and configured on the below models



2.1 PACKAGE CONTENTS

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

1	HDM-C6MWIP-SET-V3 (HDM-C6MWIP-S-V3) (HDM-C6MWIP-R-V3)	X2	
2	Universal Power Adapter (+12V DC 1A)		
3	1 x Right and Left Ear Rack Sets	X2	
5	Phoenix Connector (Male, 3.5mm, 3 pins, 4 pins) x2 Sender x2 Receiver	X 4	
6	User Guide	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 adapter 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 UTP cable. It will cause malfunction.



HBT-C6MWIP-SET-V3

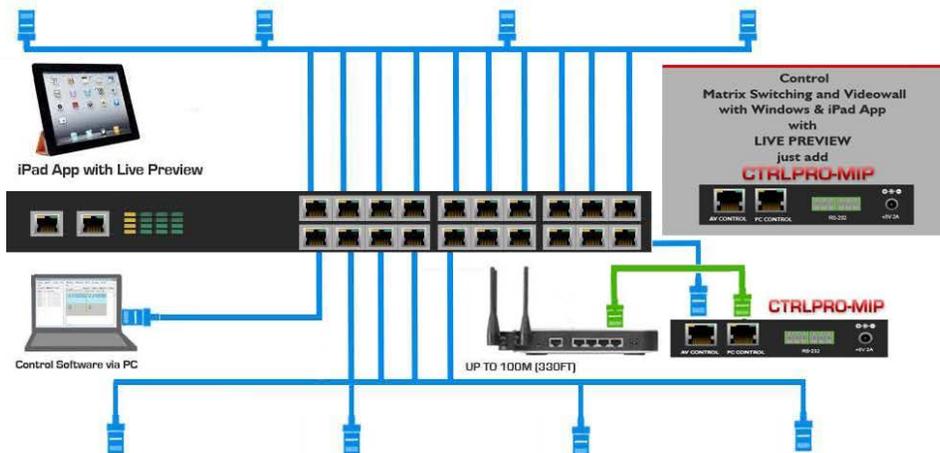
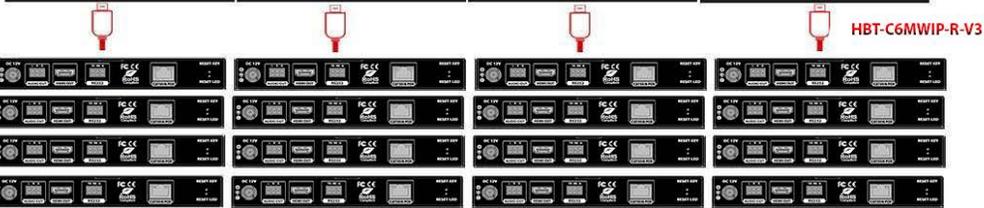
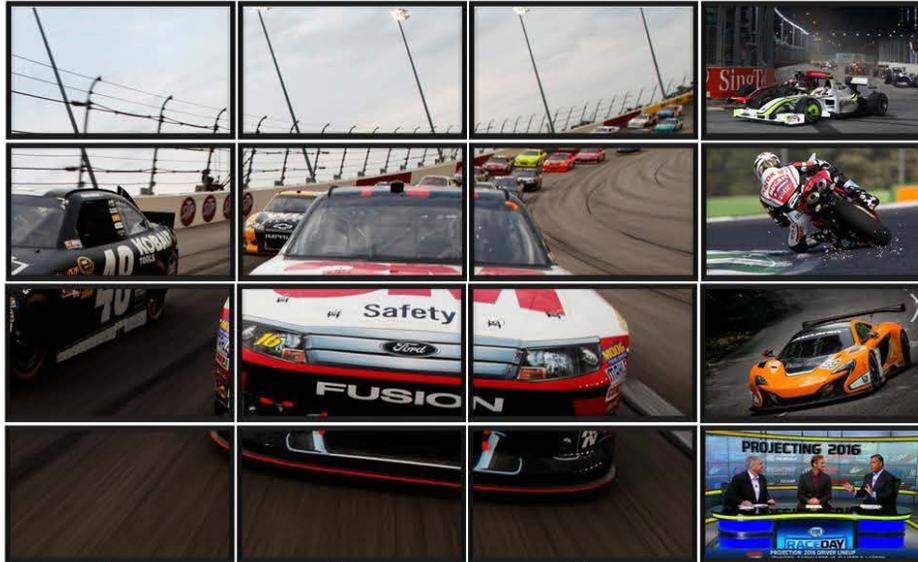
CABLE INDEX

- Input / Output
- CAT-5e / CAT-6
- AUDIO

Application Diagram 2

MULTI SOURCE TO MULTI DISPLAY

1080p60 = 100m (328 feet) CAT6
 WUXGA = 100m (328 feet) CAT6



HBT-C6MWIP-R-V3



DVI/HDMI SOURCE
 UPTO
 720p@50/60Hz,
 1080p@24/30Hz,
 1080P@50/60Hz,
 1280 x 1024@60Hz

VGA SOURCE
 1280 x 1024@60Hz
 1280 x 720@60Hz,
 1280 x 768@60Hz,
 1366 x 768@60Hz,
 1920 x 1080@60Hz

YPbPr SOURCE
 1280 x 720p@50/60,
 1920x1080i@50/60Hz

CVBS SOURCE
 480i@60Hz, 576i@50Hz



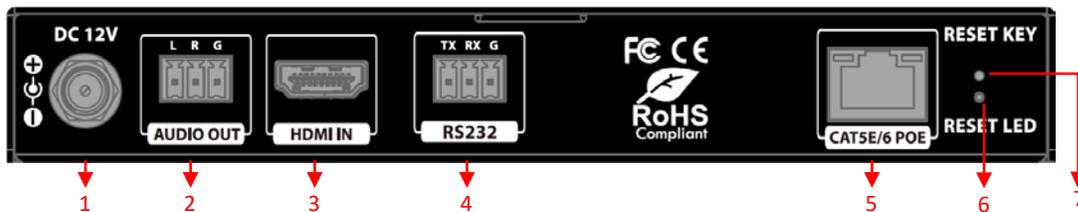
2.4 PANEL DESCRIPTION

2.4.1 FRONT PANEL (Sender/Encoder, HDM-C6MWIP-S-V3)



- | |
|--|
| 1. Power LED: Indicates if the unit is powered OFF or ON by a RED LED |
| 2. Status LED: Steady Blue Light ON indicates unit is Encoder detects valid signal input. LED blinking waiting on source |

2.4.2 REAR PANEL (Sender/Encoder, HDM-C6MWIP-S-V3)



1. Power Jack: DC 12V 1A	2. Stereo Audio OUT: Connects to an audio output device such as an amplifier for audio de-embedding.
3. HDMI IN: Connect to HDMI/DVI Source.	4. RS 232: RS-232 Data pass-through port for receiving /sending commands to RS 232 devices.
5. CAT5/6: Used for transporting video/audio streams to Decoder RX units connected.	6. Reset LED, 7. Reset Key: Reset LED is on for about 1 second and then off, release this key, encoder reboots and restores to its factory default.

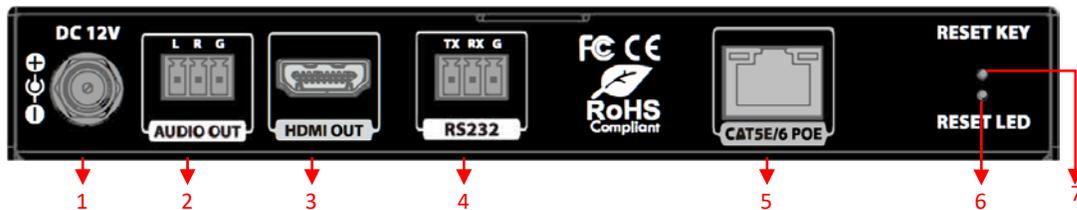


2.4.3 FRONT PANEL (Receiver/Decoder, HDM-C6MWIP-R-V3)



1.	Power LED: Indicates if the unit is powered OFF or ON by a RED LED.
2.	Status LED: Steady Blue Light ON indicates Decoder is connected to an encoder and detects valid input signal. LED blinking waiting on Encoder.
3.	ID Key: Press to display information of encoder and decoder on the screen, including IP mode, MAC and IP address.

2.4.4 REAR PANEL (Receiver/Decoder, HDM-C6MWIP-R-V3)



1.	Power: 12V 1A DC Power Jack.	2.	Stereo Audio OUT: Connects to an audio output device such as an amplifier for audio de-embedding.
3.	HDMI OUT: Connect to HDMI Display.	4.	RS 232 : RS-232 Data pass-through port for receiving /sending commands to RS 232 devices.
5.	CAT5/6: Used for transporting video/audio streams from Decoder TX units connected.	6.	Reset LED, 7. Reset Key: Reset LED is on for about 1 second and then off, release this key, encoder reboots and restores to its factory default.



To setup Avenview HDM-C6MWIP-SET-V3 please follow these steps for connecting to a device:

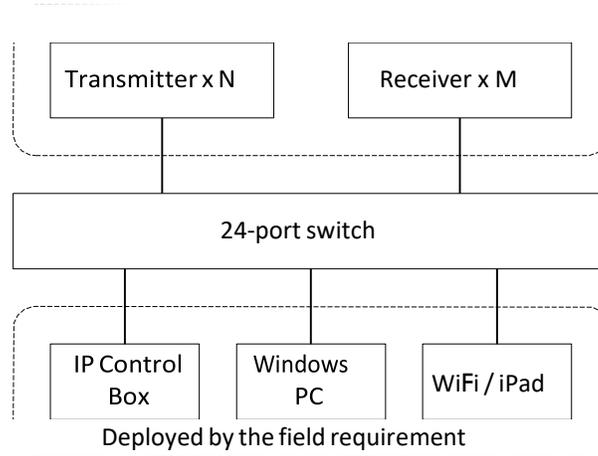
1. Turn off all devices including monitors / TV.
2. Connect an HDMI source (such as a Blu-Ray Disc player or PC) to the Encoder HDM-C6MWIP-S-V3.
3. Connect CAT5e/6 from Encoder to Decoder at the CAT5e/6 port.
4. Connect an HDMI out from HDM-C6MWIP-R-V3 decoder to a Display/Monitor.
5. Connect Audio out to Speakers or Amplifier.
6. Ensure all cable connections are secure and not loose.
7. Plug in 12V DC power (supplied) and connect the HDM-C6MWIP-S-V3 and HDM-C6MWIP-R-V3 to power jack respectively.
8. Power on HDMI Source.
9. Power on the HDMI display.

NOTE: For network setup please see the Network switch configuration guide and Network Connection guide to achieve best results.

3.1.1 IP Matrix Switch Guide

TX and RX Guide		Networking Switch Guide	
Distribution Status	Total Quantity	Network Topology	Recommended Switches
Centralized	Less than or equal to 20 TX/RX	Single Switch Networking	Cisco SG 300 24-port 1000 Mbps Ethernet Switch HUAWEI 24-port 1000 Mbps Ethernet Switch
	Less than or equal to 40 TX/RX		Cisco SG300 /500 48-port 1000 Mbps Ethernet Switch HUAWEI 48-port 1000 Mbps Ethernet Switch
	More than 40 TX/RX	Cascading Switch Networking	Cisco switch SG Series or Catalyst: Core switches uses 1000 Mbps Ethernet switch Extended switches use 1000 Mbps Ethernet switches
Distributed	No requirement		



24-port Single Switch Networking (N + M) = 20 max

The illustration above is an example of how the user can connect using a 24 port network switch. The following brands are recommended and was tested resulting in stable working conditions.

1. Cisco brand

24-port 100Mbps Ethernet switch: **WS-C2960-24TC-L**

24-port 1000Mbps Ethernet switch: **SG350-28, SG350X-24P**

24-port 1000Mbps PoE Ethernet switch: **SG350-28P, SG350X-24P, WS-C2960S-24PS-L, WS-C2960X-24PSQ-L**

Other models include: **G350X-24P, SG350X-48P, SG500-28, SG500-52MP**

2. HUAWEI Brand

24-port 100Mbps Ethernet switch: **S2700-26TP-EI-AC**

24-port 1000Mbps PoE Ethernet switch: **S5700-28P-PWR-LI-AC**

Other models include: **S5700-10P-LI**



Avenview M-Series HDMI over IP units can be networked together with a recommended Layer 2 Gigabit Smart Switches. As mentioned previously in section 3 the importance of calculation for the capacity of the switch meets the requirements of the number of encoders/decoders you have on your network. These units can perform well over a standard network infrastructure, however the quality of this infrastructure is critical. We have tested many brands of switches all of which perform well in small system configurations of around 10 Encoders and Decoders. However, for larger installations, Avenview highly recommends using CISCO SG300/500 or CATALYST series switches.

3.3.1 Simple Setup Guide for Network switch

M-series should be connected to a Layer 2 managed switch which supports Multicast & IGMP snooping.

Do not connect any units to the switch until all the network switch configuration has been. For recommended switches and PDF configuration guides please see the 'downloads' section of any M-series device at avenview.com.

3.3.2 POE Requirements

It is not necessary to change the IP addresses of the encoders and decoders units – factory default AutoIP is used to configure correct IP addresses to simply work out of the box.

DHCP addresses are not recommended, while Static addresses are for supervised setups and network strict environments.

Failure to note the IP settings of any unit changed may result in a complicated reset procedure.

Most M-Series installations use the POE (Power Over Ethernet) function to power the encoder & decoders units.

HDM-C6MWIP-SET-V3 devices are Class 0 rated POE devices, they can require up to 15.4W of power each, but tested their actual power draw is between 5-7W. In order to calculate the number of devices that is recommended on a network switch please divide the total POE power capacity of the switch by 15.4.

Please see the example:

CISCO SG300-52P with a POE power output of 375W: $375 / 15.4 = 24.35$. From the answer 24 devices can be powered by this switch. In order to have all ports powered by POE on a network switch, please see the example:

SG300-52MP which provides 740W. $740 / 15.4 = 48$. From the answer 48 devices can be powered by this switch.

3.3.3 Data Bandwidth

Each HDM-C6MXIP-S encoder will produce up to 50Mb/s of data > therefore 10 x encoders will require $10 \times 50\text{Mb/s} = 0.5\text{ Gbps}$.



You can connect multiple HDM-C6MWIP-S-V3 and the HDM-C6MWIP-R-V3 H.264 decoder to build a modular IP matrix. With the PC configurator, you can configure and manage this function. For more information, see the user guide of PC configurator.

Minimum System Requirements PC Software

Operating System: Microsoft® Windows® XP, Vista, 7, 8 or 10

CPU: 1.5 GHz

Memory: 2 GB of RAM

HDD: 32 GB of available hard disk space

Network: 10/100 NIC

4.1 Setting a Static IP on Your Computer

Before using the Avenview PC Configurator, please ensure you download the most recent version from the product HDM-C6MWIP-S-V3 Sender and HDM-C6MWIP-R-V3 Receiver website link /downloads PC control software.

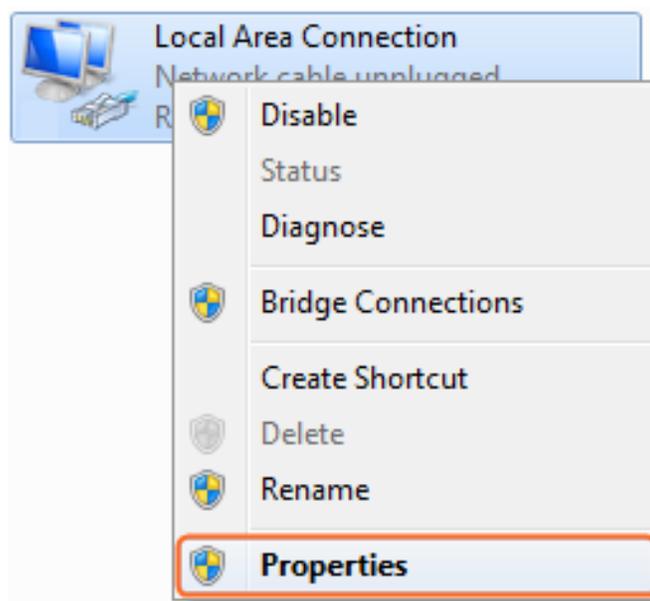
All devices must be in the same network segment. To verify and properly control the devices, please set a static IP on your computer. See the instructions below if not sure on how to proceed:

The Sender and Receiver units are pre-configured with AutoIP. Upon connecting the units to a standalone network switch (without router attached), the units will be on IP address range at 169.254.1.1 and subnet mask 255.255.0.0.

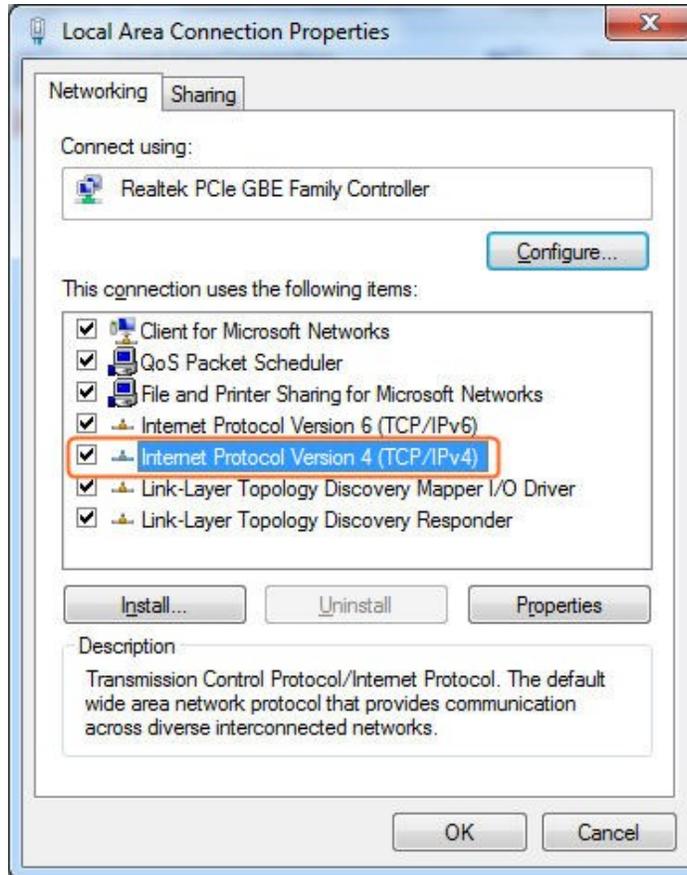
Set your computer's IP address as 169.254.X.X and subnet mask as 255.255.0.0.

A Windows 7 PC/Laptop is used as an example to configure a static IP address.

1. Click **Start**.
2. Choose **Control Panel > Network and Internet > Network and Sharing Center > Change Adapter Settings**, right click **Local Area Connection**, and then choose **Properties**.

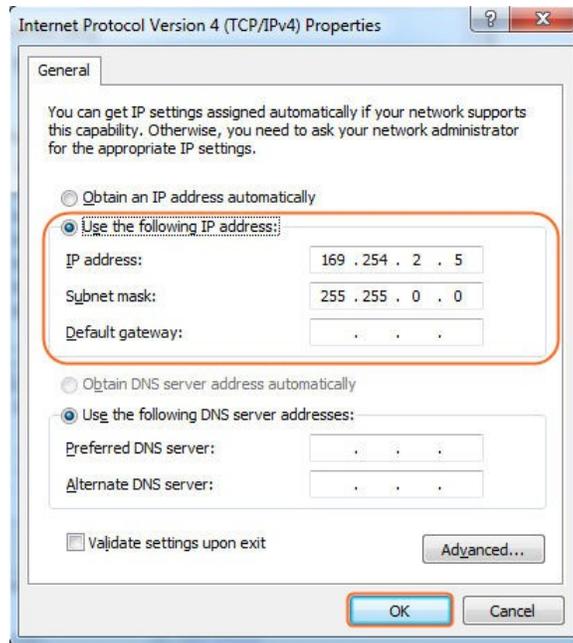


3. Double-click **Internet Protocol Version 4 (TCP/IPv4)**.



4. Select **Use the following IP address**. After configuring the settings in the following example, click OK.

- **IP address:** 169.254.2.5
- **Subnet mask:** 255.255.0.0



5. Click **OK**.

Configuring Your Operating System

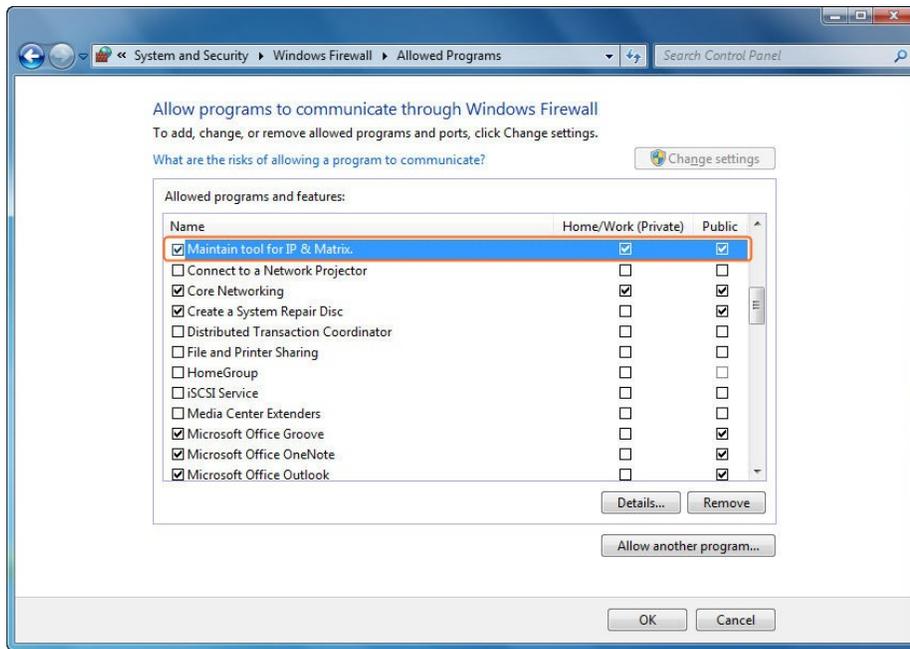
Firewall

Your operating system firewall may block some features of PC Configurator and prevent it from communicating with Sender and Receiver. A computer running Windows 7 is used as an example to configure your operating system firewall through either of the following two approaches.

Method 1

You can configure the firewall in the **Windows Firewall** panel on your computer, for example select both **Home/Work (Private)** and **Public** for **PC Configurator & Matrix**.





Method 2

You can also configure the firewall in the **Windows Security Alert** window. When starting MaintainTool, the **Windows Security Alert** may display. If so, use the administrator privileges to select a network you allow this software to communicate on, for example select both private and public networks, and then click **Allow access**.



Item	Description	
Units	HDM-C6MWIP-S-V3	HDM-C6MWIP-R-V3
Unit Description	HDMI Transmitter/Encoder	HDMI Receiver/Decoder
Input Video Port	1 x HDMI IN	1 x LAN
Input Video Type	HDMI 1.3, HDCP 1.4	HDMI 1.3, HDCP 1.4
Input Resolution	HDMI: 640 x 480@60Hz, 480p@60Hz, 576i@50Hz, 576P@50Hz, 800 x 600@60Hz, 1024 x 768@60Hz, 720p@50Hz, 720p@60Hz, 1280 x 800@60Hz, 1280 x 1024@60Hz, 1360 x 768@60Hz, 1366 x 768@60Hz, 1400 x 1050@60Hz, 1440 x 900@60Hz, 1680 x 1050@60Hz, 1920 x 540@60Hz, 1080i@50Hz, 1080i@60Hz, 1080p@50Hz, 1080p@60Hz	480p@60Hz~1080p@60Hz
Input Video Signal	0.5~1.2 V p-p	NA
Encoding Data Rate	Up to 30 Mbps, configurable	NA
Output Video Ports	1 x LAN	1 x HDMI
Output Video Type	H.264/MPEG-4 AVC	HDMI 1.3
Output Video Resolutions	<ul style="list-style-type: none"> Large IP stream: from 480p@60Hz to 1920 x 1080@60Hz Small IP stream: 352x288@5Hz 	HDMI: 640 x 480@60Hz, 480p@60Hz, 576P@50Hz, 800 x 600@60Hz, 1024 x 768@60Hz, 720p@50Hz, 720p@60Hz, 1280 x 800@60Hz, 1280 x 1024@60Hz, 1366 x 768@60Hz, 1400 x 1050@60Hz, 1440 x 900@60Hz, 1680 x 1050@60Hz, 1920 x 540@60Hz, 1080p@24Hz, 1080p@25Hz, 1080p@30Hz, 1080p@50Hz, 1080p@60Hz
Video Impedence	100 Ω	100 Ω
Input DDC Signal	5 V p-p (TTL)	NA
End-to-End Time Latency	When works with decoder: <ul style="list-style-type: none"> About 50 ms (Low latency mode) About 250 ms (High quality mode) 	When works with encoder: <ul style="list-style-type: none"> About 50 ms (Low latency mode) About 250 ms (High quality mode)
Input Audio Ports	1 x HDMI	1 x LAN
Input Audio Format	LPCM 2.0	LPCM 2.0
Output Audio Ports	1 x Phoenix connector	1 x Phoenix connector
Output Audio Format	Stereo	Stereo
Control Method	Rear panel LAN port, PC configurator and CTRLPRO-M via CTRL PRO using iPad	Rear panel LAN port, PC configurator and CTRLPRO-M via CTRL PRO using iPad
Power Supply	12 V 1 A DC	12 V 1 A DC
Power Consumption	6W (Max.)	6W (Max.)



Shipping Dimensions (L X H X D)		
Product Dimensions (L X H X D)	6.9" x 0.98" x 3.9"	6.9" x 0.98" x 3.9"
Weight	0.60kg / 1.32lb	0.60kg / 1.32lb
ESD Protection	Human body model: -±8kV (air-gap discharge) -±4kV (contact discharge)	Human body model: -±8kV (air-gap discharge) -±4kV (contact discharge)

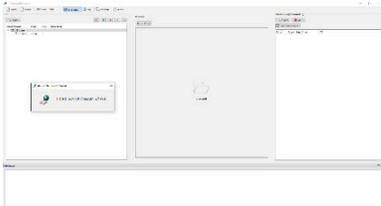
Environmental

OPERATING TEMPERATURE	+32°F ~ +113°F (0°C ~ +45°C) 10% ~ 90%, non-condensing	32° ~ 104°F (0° to 40°C)
STORAGE TEMPERATURE	-4° ~ 140°F (-20° ~ 60°C)	-4° ~ 140°F (-20° ~ 60°C)
RELATIVE HUMIDITY	20~90% RH (no condensation)	20~90% RH (no condensation)



Problem	Possible Solution
<p>PC Configurator cannot find devices</p>	<ol style="list-style-type: none"> 1. Check the Windows Firewall. Taking Windows 7 as an example: Click Start menu, go to Control Panel > System and Security > Windows Firewall > Allowed Programs, select Home/Work (Private) and Public for PC configurator. <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div data-bbox="602 556 1010 863"> <p style="text-align: center;">PC Configurator (HDMI over IP)</p> </div> <div data-bbox="1024 556 1432 863"> <p style="text-align: center;">Maintain Tool</p> </div> </div> 2. Check the IP address and subnet mask of your computer. The computer, Sender, Receiver and switch should be in the same network segment. Therefore, set your computer's IP address as 169.254.X.X and subnet mask as 255.255.0.0. For more information, see the description in the networking guide. 3. Check the switch configuration, and that IGMP snooping and all the other functions are enabled.
<p>Display Showing No Picture</p>	<ol style="list-style-type: none"> 1. Check all devices are powered on. 2. Check all cables are securely seated and connected properly. 3. Check the LED STATUS indicators on the Receivers to see if Senders and Receivers are linked correctly. Blue Steady=OK Blue Blinking=standby to link the devices use the PC configurator on your PC/Laptop, drag the TX to the RX and click apply. 4. Check that source device is powered on and the HDMI cable is connected. Check the displays are powered on and the correct input selection. Check the HDMI cable is plugged into the correct port.

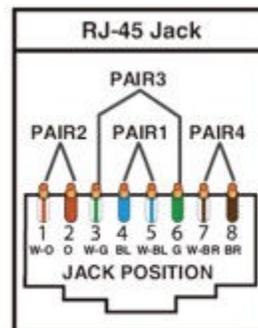


	<ol style="list-style-type: none"> 5. Example switch to HDMI 1 if a display's HDMI 1 port is connected to Receiver via an HDMI cable. 6. Ensure the displays/monitor support HDCP. 7. Check native EDID timings from the manufactures guide to match the Receiver output resolution. If so, replace the displays with other models. 8. Check that Sender supports the resolutions of the input signals. For more information about the resolutions, see "Specifications" of "Introduction" section. 9. Check the switch configuration, and that IGMP snooping and all the other functions are enabled.
<p>No audio</p>	<ol style="list-style-type: none"> 1. Check all the devices are powered on. 2. . Check all cables are securely seated and connected properly. 3. Check the LED STATUS indicators on the Receivers to see if Senders and Receivers are linked correctly. Blue Steady=OK Blue Blinking=standby to link the devices use the PC configurator on your PC/Laptop, drag the TX to the RX and click apply. 4. Check the A/V device is playing a video with sound. 5. Check the A/V devices audio output with an RCA jack to a speaker or amplifier, also use a headphone if the equipment has a 3.5mm audio out. 6. Check the A/V devices are not set to mute or 0 for volume. 7. Check Receiver is not set to mute, open PC configurator and right click on the Receiver and on the drop down select mute. For more information, see the user guide of PC configurator.
<p>No Live preview on Windows7 or iPad App</p>	<ol style="list-style-type: none"> 1. Please ensure your HDM-C6MWIP-S-V3, CTRLPRO-MIP and your wireless router is on the same network segment. 2. For Window 7/iPad app, please ensure the units are updated with the most recent firmware. <p>Note: latest firmware are available on Avenview.com on product page.</p> 



1. All HDMI over CATx transmission distances are measured using Belden CAT6A (625MHz), 4-Pair, UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Patented Double-H spline, Ripcord, PVC Jacket using Quantum 980 signal HDMI Video Generator Module with Video Pattern Testing and shielded ends.
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 300m or 1000ft bulk cable) can transmit a lot longer 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 CAT6A cable shows longer transmission length than solid UTP CAT5E/6E cable.
3. EIA/TIA-568-B termination (T568B) for category cables is recommended.
4. To reduce the interference among the unshielded twisted pairs of wires in category cable, you can use shielded STP cables with shielded connector to improve EMI problems, which occurs in poor wiring environments with unplanned cable runs situated away from EMI interference.
5. Because the quality of the category cables has the major effects in how long transmission distance will be made and how good is the received signal on the display, the actual transmission length is subject to high quality category cables. For resolution greater than 1080i or 1280x1024, a solid CAT6E 250MHz 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+



PERFORMANCE GUIDE FOR HDMI OVER CATEGORY CABLE TRANSMISSION

PERFORMANCE RATING		TYPE OF CATEGORY CABLE	
WIRING	SHIELDING	CAT5E	CAT6
SOLID	UNSHIELDED (UTP)	****	****
	SHIELDED (STP)	****	*****
STRANDED	UNSHIELDED (UTP)	**	**
	SHIELDED (STP)	*	**
TERMINATION		PLEASE USE EIA/TIA-568-B TERMINATION (T568B) AT ANY TIME	



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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.

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1100 Military Rd, Kenmore, NY 14217
1.866.508.0269





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CONTACT US



Phone: 1 (866) 508 0269



Email: support@avenview.com



USA Head Office Avenview Corp. 275 Woodward Avenue Kenmore, NY 14217

USA Head Office

Office Avenview
Corp. 1100 Military Rd,
Kenmore, NY 14217
Phone: +1.716.218.4100 ext223
Fax: +1.866.387-8764
Email: info@avenview.com

Canada Sales

Avenview
151 Esna park Drive, Unit 11 & 12
Markham, Ontario, L3R 3B1
Phone: 1.905.907.0525
Fax: 1.866.387.8764
Email: info@avenview.com

Avenview Europe

Avenview Europe
Demkaweg 11
3555 HW u trecht
Netherlands
Phone: +31 (0)85 2100- 613
Email: info@avenview.eu

Avenview Hong Kong

u nit 8, 6/f., Kwai Cheong Centre,
50 kwai Cheong Road,
Kwai Chung, N.T.
Hong kong
Phone: 852-3575 9585
Email: wenxi@avenview.com

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