



HDM-C6MWIP-SET-V4

4K60 HDMI over IP Receiver with
USB 2.0



USER GUIDE

PRODUCT APPLICATION & MARKET SECTORS



Corporate



Military



Education



Medical



House of Worship



Residential



Industrial



Aviation

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1.1

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.
- 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-C6MWIP-SET-V4, 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-C6MWIP-SET-V4 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 |
|---|---|
|  | 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. |
|  | WARNING 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. |

SECTION 2: INTRODUCTION



This unit supports both Unicast and Multicast modes, enabling video wall and seamless collaboration across multiple windows in Multicast mode. It supports the transmission of Ultra High-Definition signals (up to 4K@60Hz RGB) with audio and USB 2.0 up to 100m on a single cable which allows connection of USB flash drives, keyboard, and mouse. The transmission distance can be further extended (up to 100m per segment) by using gigabit network switches, allowing the user to cascade the system without signal loss or introducing delay. Moreover, it supports IP to IR and IP to RS-232, converting the IP signal into IR and RS-232 commands for device control.

When the extension system's units are in multicast mode, a single transmitter's AV signal can be sent to a large number of receivers within the same local network without the additional receivers causing the bandwidth requirements to increase. Additionally, that same multicast signal can be used to create large multi-display video walls with amazing simplicity. When combined with the optional IP Master Controller the functionality of the system expands exponentially. Its centralized web-based interface greatly simplifies control and management of large distributed video matrix or video wall systems adding to their flexibility in large home or commercial installations.

This system also features bi-directional IR and RS-232 pass-through, analog line level in/out, and a microphone input (on the receiver), providing the user with a variety of audio options. The USB functionality allows the system to act like a remote USB hub which, when combined with the HDMI input/ output feature, provides a comprehensive USB over IP functionality platform. Configuration information is provided via On Screen Display (OSD) and control is by WebGUI, IP Master Controller, and Telnet.

The unit is with Dante Ready which can transmit digital audio channels upon activation and is compatible with any standard Dante audio transmitters/ receivers that the audio might be routed to. Dante Ready provides a flexible way to enable and expand the connectivity and interoperability of the world's de-facto AV-over-IP solution, even after the initial purchase. Upgrade your system with Dante and connect to over 4,000 products from 500 manufacturers. Dante Ready is built within the widely used Dante Controller application for Dante audio and video subscription management. Transactions are simple and secure, and device upgrades are seamlessly actioned without the need to enter complex license keys of copy license files.

2.1

PACKAGE CONTENTS



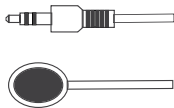
HDMI EXTENDERsender TX
*1pcs



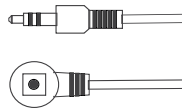
DC 12V/2.5A
*1pcs



UserManual
*1pcs



IR blaster cable
*1pcs

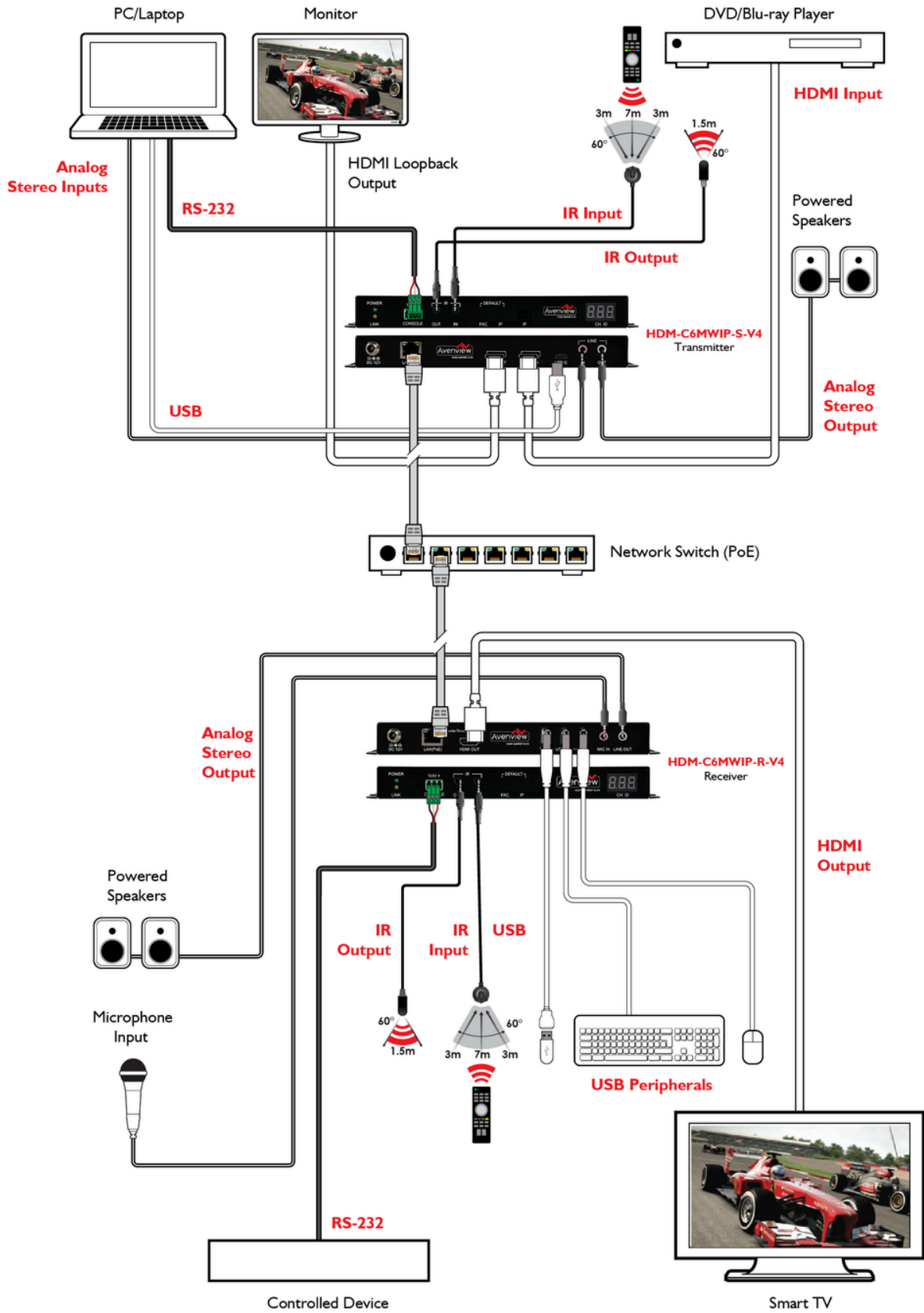


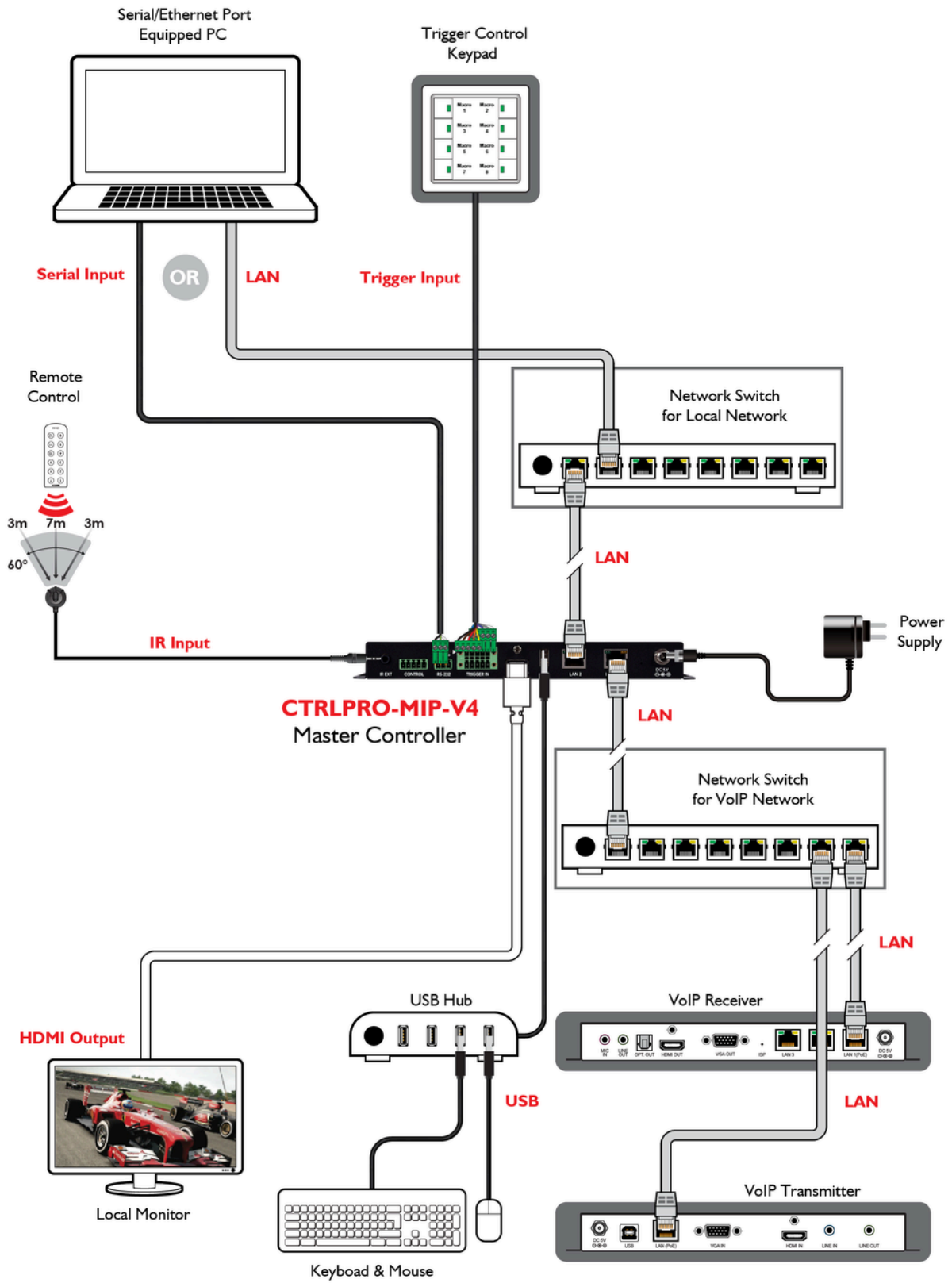
IR Extender Cable
*1pcs

2.2

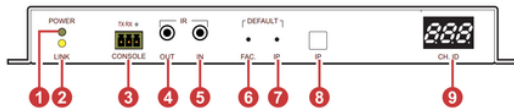
BEFORE INSTALLATION

- Put 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.



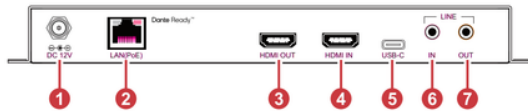


2.4.1 Front Panel (HDM-C6MWIP-SET-V4)



- 1 **Power light** The LED will flash while the unit is powering on and will illuminate solidly once it is ready to be used.
- 2 **Link Light** If the transmitter has no network connection the LINK LED will not illuminate. While the transmitter is attempting to establish a connection with a receiver the LINK LED will flash. When the transmitter has established a stable connection with a receiver the LINK LED will illuminate solidly.
- 3 **Console Terminal** Connect to a PC, laptop, or serial controllable device with a 3-pin adapter cable for the extension of RS-232 signals to the currently routed receiver. The baud rate is configurable, but the default baud rate is 115200.
- 4 **IR Out Port** Connect to the provided IR Blaster to transmit IR signals from the associated transmitter to devices within direct line-of-sight of the IR Blaster.
- 5 **IR In Port** Connect to the provided IR Extender to extend the IR control range of remotely located devices. Ensure that the remote being used is within direct line-of-sight of the IR Extender.
- 6 **RESET FAC. Pinhole** Press this recessed button to reboot the unit and all settings will be returned to the factory defaults (Including resetting the IP mode to auto, broadcast channel to 0, and the streaming mode to unicast). A new IP address will be assigned automatically within the 169.254.xxx.xxx address range.
- 7 **RESET IP Pinhole** Press this recessed button to reset the unit's IP settings and reboot the unit.
- 8 **IP Button** Press this button to sequentially display the current broadcast channel and IP address.
- 9 **CH. ID Display** Display information of current broadcast channel and IP address.

2.4.2 Rear Panel (HDM-C6MWIP-SET-V4)



- 1 **DC 12V Port** Plug the 12V DC power adapter into the unit and connect it to an AC wall outlet for power.
- 2 **LAN (PoE) Port** Connect via a Gigabit Ethernet switch to compatible receiver to transmit data, and to a PC/laptop to control the unit via WebGUI.
- 3 **HDMI OUT Port** Connect to a HDMI equipped TV/monitor to locally view the connected HDMI input source.
- 4 **HDMI IN Port** Connect to HDMI source equipment such as a media player, game console, or set-top box
- 5 **USB (Type-C) Port** Connect directly to a PC or laptop to extend its USB functionality to the ports on the connected receiver.
- 6 **LINE IN Port** Connect to the analog stereo output of a device such as a PC, laptop, or audio player.
- 7 **LINE OUT Port** Connect to powered speakers or an amplifier for mono analog audio output. This will output the audio from the Mic In on the currently routed receiver.

SECTION 3: SPECIFICATIONS



| Item | Specification / Details |
|-------------------------------|---|
| Interfaces | |
| Input Port | 1xHDMI (Type-A), 1xStereo Audio (3.5mm) |
| Output Port | 1xHDMI (Type-A), 1xStereo Audio (3.5mm) |
| Output/Control Port | 1xGbE LAN (RJ-45) |
| Pass-through Port | 1xIR Extender (3.5mm), 1xIR Blaster (3.5mm), 1xRS-232, 1xUSB 2.0 (Type-C) |
| Video | |
| HDMI Compliance | HDMI 2.0 (DVI 1.0) HDCP2.2 |
| HDCP Compliance | 4096x2160p@60 8bit RGB |
| Input Signal Type | 4096x2160p@60 8bit RGB |
| Output Signal Type | |
| Resolutions | |
| Maximum Input HDMI | 4096x2160p@60 |
| Maximum Output LAN | 4096x2160p@60 |
| Audio | |
| Digital Format HDMI | LPCM(8Channels), Bitstream, High Bit Rate Bitstream LPCM(2 Channels) |
| Line In/Out | 2 Vrms, S/N Ratio: > 80dB (1kHz with 0dBFS) |
| Line Level In | 2 Vrms, S/N Ratio: > 80dB (1kHz with 0dBFS) |
| Line Level Out | |
| Power | |
| Power Supply | PoE (802.3af) or 12V/1.25 A |
| Power Consumption | 7.19W |
| Enclosure & System | |
| Chassis Material | Metal (Steel) |
| Chassis Color | Black |
| Dimensions (W x H x D) | 231.5x25x108mm [Case Only], 231.5x25x120mm [All Inclusive] 660g |
| Weight | WebGUI |
| Field Firmware Update | |

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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