



AV Connectivity, Distribution And Beyond...

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

Wireless 60GHz HDMI Extender Set with 3D and Full HD Video Support



Model #: W-HDM3D-100-SET

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Product Application & Market Sectors



Corporate



House Of Worship



Military



Residential



Education



Industrial



Medical



Aviation



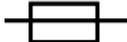
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SECTION I: GETTING STARTED

The following symbols appear on the product. You can find its labeling, or the product

Symbol	Definition	Symbol	Definition
	AC Voltage.		Switches on power.
	Switches off power.		Contained spare fuse.
	Dangerous : High Voltage		Consult accompanying documents.
	Indicates protective earth ground.		Serial Number.
	Indicates top-bottom direction.		Fragile.
	Do not get wet.		Maximum stacking
	Medical Equipment is in accordance with UL 60601-1 and CAN/CSA C22.2 No.601.1 in regards to electric shock, fire hazards, and mechanical hazard.		
	Indicates proof of conformity to applicable European Economic Community Council directives and to harmonized standards published in the official journal of the European Communities		
	Tested to comply with FCC Class B standard.		
	This symbol indicates that the waste of electronic equipment must not be disposed as unsorted municipal waste and must be collected separately. Please contact the manufacturer or other authorized disposal company to Decommission your equipment.		



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.
 - 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.

I.2 SAFETY INSTRUCTIONS

The Avenview W-HDM3D-100-SET, HDMI Extender over WIFI has been tested for conformity to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment's, the W-HDM3D-100-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 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 the limits of a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against interference. This system can radiate radio frequency energy and, if not installed and used in accordance with the instructions, it may interfere with other radio communications equipment. There is no guarantee that interference will not occur in a particular installation. If this equipment is found to cause harmful interference to radio or television

reception, the user is encouraged to try to correct the interference by carrying out one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the distance between this system and the subject of interference.
3. Plug this system into an outlet on a different electrical circuit than \that to which the subject of interference is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

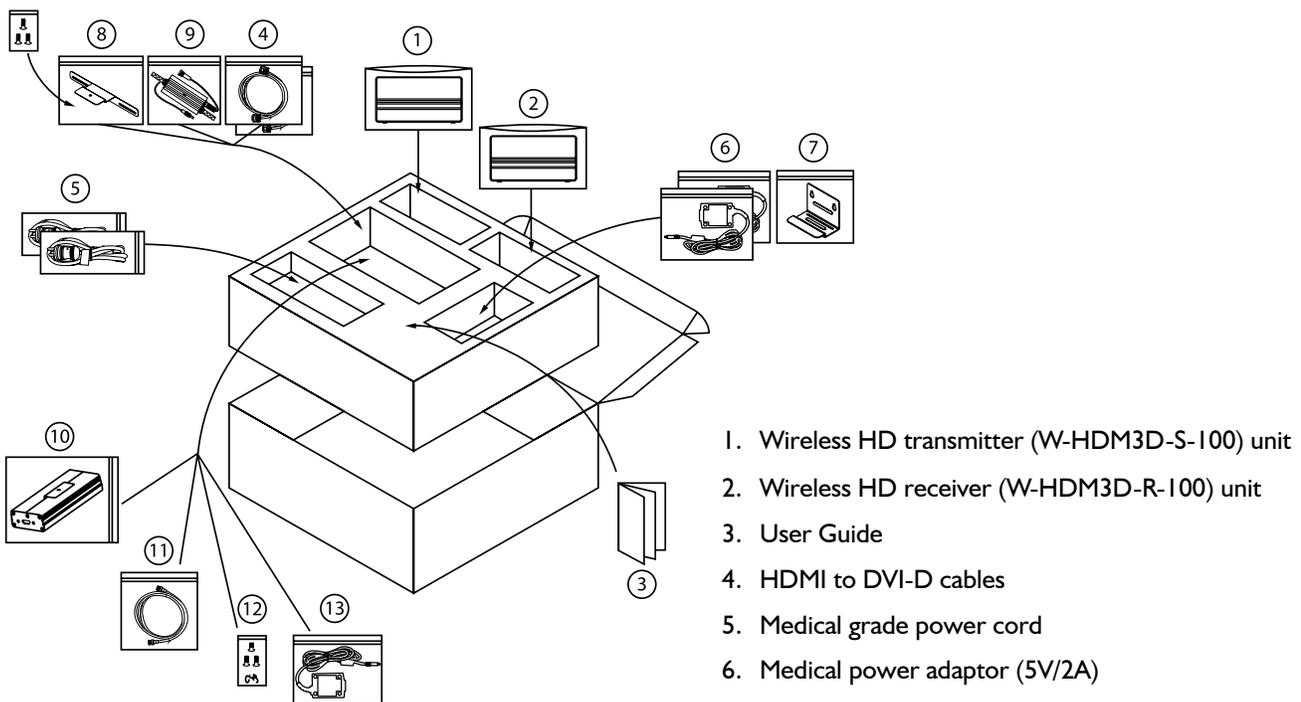
Warning symbols	Description
	<p>ONLY USE THE PROVIDED POWER CABLE OR POWER ADAPTER SUPPLIED. DO NOT TAMPER WITH THE ELECTRICAL PARTS. THIS MAY RESULT IN ELECTRICAL SHOCK OR BURN.</p>
	<p>DO NOT TAMPER WITH THE UNIT. DOING SO WILL VOID THE WARRANTY AND CONTINUED USE OF THE PRODUCT.</p>
	<p>THE VIDEO BOARDS 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>



2. INTRODUCTION

Avenview W-HDM3D-100, our 60 GHz wireless HD transmitter/receiver, provides an easy and flexible solution to wireless communications. This system supports HD video, 1080p/60Hz, plus new 3D video formats generated by HDMI 1.4a. Both CEC and non-CEC enabled devices are compatible with our W-HDM3D-100 wireless system. 60 GHz reliability

2.1 PACKAGE CONTENTS



1. Wireless HD transmitter (W-HDM3D-S-I00) unit
2. Wireless HD receiver (W-HDM3D-R-I00) unit
3. User Guide
4. HDMI to DVI-D cables
5. Medical grade power cord
6. Medical power adaptor (5V/2A)

For wall mounting:

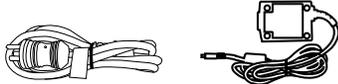
7. 1x Bracket (Standard type for installing) and screw

For monitor bezel installation:

8. Bracket (Medical type for installing) and screw
9. DC splitter
10. DVI to HDMI signal converter/scaler (CW-HDMDVI-I00)
11. HDMI to HDMI cable
12. Cable guides and extra screws
13. Power cable for CW-PS-HDMSP-I00



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

1	W-HDM3D-S-100 (Transmitter Unit)	X 1	
2	W-HDM3D-R-100 (Receiver Unit)	X1	
3	User Manual	X 1	
4	Medical grade power cord & adaptor (5V/2A)	X2	
5	HDMI to DVI-D cables	X 2	
6	Bracket (Standard type for installing) and screw	X 1	
7	Bracket (Medical type for installing) and screw	X 1	

Do not use any other cable or accessory that are not provided



2.2 BEFORE INSTALLATION

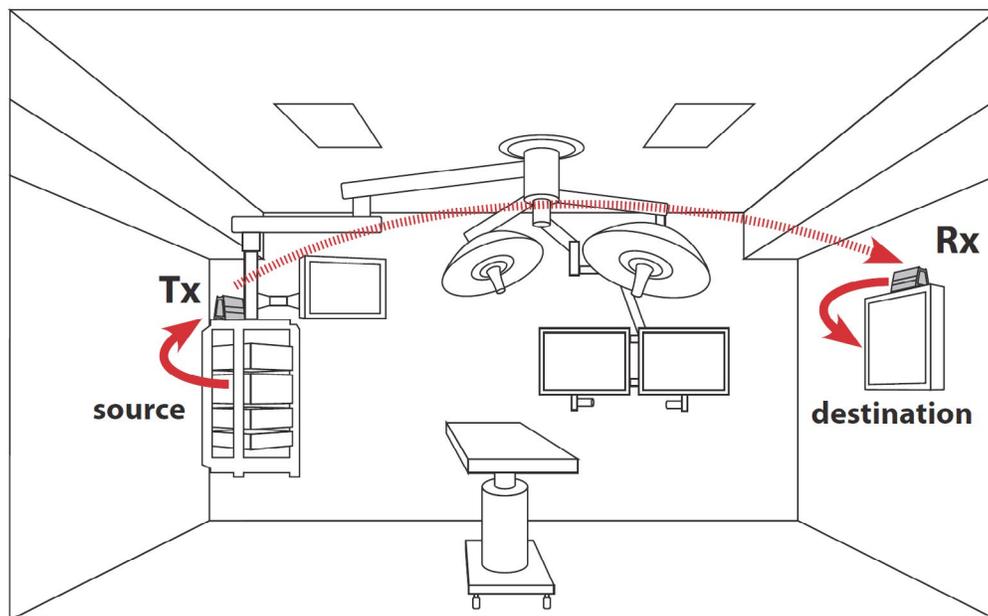
- A bad connection may cause fault.
- Do not stack and locate close to other equipment
- Be sure to contact an supplier, when installing your system in a Location with the Heavy dust, high or low temperatures, high humidity, chemical substance.
- Failure to do so may cause a serious damage to your system.
- Before connecting the AC power cord to the system, make sure the voltage designation is correct;
- Never use this system with a damaged power cord;
- Be sure to hold the plug, not the cord, when disconnecting from an electric socket;
- Install this system in a location with low humidity and minimum dust;
- To prevent overheating, product vents should not be blocked or covered;
- Do not attempt to disassemble or modify your product;
- Only authorized personnel should perform service;
- Never insert anything metallic into the product vents;
- Do not touch signal input, signal output or other connectors, and the patient simultaneously.



3. INSTALLATION

This product is composed of a Transmitter and a Receiver. The Transmitter should be connected to the source (Computer's HDMI Port) and the Receiver should be connected the HDMI Port of the digital display device (Monitor).

1. Avenview W-HDM3D-100 Transmitter / Receiver are designed to be no more than 33 feet (10 meters) apart.
2. Be on the same level (one should not be higher than the other).
3. Not be in a confined location (i.e. A cabinet or an enclosed shelf).
4. Reposition the Rx and Tx, allowing as many open paths to the receiver as possible.
5. Face each other.



4. GENERAL TROUBLESHOOTING

PROBLEM	POSSIBLE SOLUTION
<p>NO VIDEO OR AUDIO</p>	<ul style="list-style-type: none"> • If the power LEDs on the transmitter and receiver are blinking, the adapters are not linked. See “Receiver will not link to Transmitter” troubleshooting steps above. • If the power LED on the transmitter and receiver are solid (not blinking), the adapters are linked such that video and audio sent into the transmitter should be output from the receiver. Therefore, the display/monitor may not be set to the HDMI input jack that the WIS1000 Receiver unit is connected to. Refer to the documentation provided with your display/monitor for information on how to select the correct input. • The source component is not powered on and/or does not have the HDMI output enabled. Refer to the documentation provided with your source component for information on switching that component to the HDMI output. • The transmitter is set to the incorrect HDMI port. Switch the transmitter to the correct HDMI port for the component you want to view with the HDMI/WWAN switch on the back of the transmitter. • Make sure that you are using high speed certified HDMI cables for all connections and that all cable connections are secure. We recommend high quality HDMI cables.
<p>RECEIVER WILL NOT LINK TO TRANSMITTER</p>	<ul style="list-style-type: none"> • The power LED on the transmitter and the receiver will blink continuously while the transmitter is not linked to the receiver. This can be caused by the receiver being located too far away from the transmitter. The maximum non-line-of-sight range is approximately 33ft. (10m). • Try re-positioning the transmitter and receiver units so they are within the specified operating range. First try to get the units to link with each other at 3 ft. (1 m) (to prove that they are working properly with your equipment). Then try moving them further apart to the desired locations. • Materials may be blocking the 60 GHz radio frequency beam from the transmitter to the receiver. This beam can pass through many cabinet materials such as glass and wood (depending on thickness and density of the materials), but it cannot pass through doors, shelves, or components that are made of metal. • Try positioning the transmitter and receiver so that they are not blocked by metal. • Either the receiver or transmitter is not powered on. Be sure the AC adapter is securely connected and each unit is powered on correctly. • Power cycle both the transmitter and receiver by unplugging then plugging them back in.





WARNING

Do not put heavy object on top of the W-HDM3D-100.
It may cause product malfunction.

Put the product on even and stable location.
If the product falls down or dropped, it may get damaged.

Keep away from high temperature (over 50°C), low temperature
(under 0°C) or high humidity. It may cause a fire and injury
by electrical shock.

Use DC power adapter with correct specification.
Otherwise it may cause fire.

Use the multimode (50/125um) optical fiber.

Do not view directly laser module of transmitter or the end of the other
side of optical cable connected to transmitter with optical instrument.

Do not twist or pull by force either ends of the optical cable. It can cause
malfunction. Minimum bending diameter is 45mm

Thank You.



5. SPECIFICATIONS

ITEM	DESCRIPTION	
UNITS	W-HDM3D-S-100	W-HDM3D-R-100
UNIT DESCRIPTION	HDMI WIFI Transmitter	HDMI WIFI Receiver
HDMI COMPLIANCE	HDMI Interface HDMI	
INPUT & OUTPUT SIGNAL	Yes	
ANTENNA TYPE	32 Antenna Array (Integrate Ceramic)	
VIDEO BANDWIDTH	4Gbps over-the-air data transfer rate	
RAGE	10 meters in-room usage	
AV PORT	Transmitter : 1 Port (CEC pass through)	Receiver : 1 Port (CEC pass through)
HDMI CONNECTOR	HDMI Female Connector	
DIMENSIONS (L X W X H)	6.5"x 3.4"x 2"	
WEIGHT	0.5 lbs	
<i>Environmental</i>		
OPERATING TEMPERATURE	0 ~ 40 °C (32 ~ 104° F) ambient temperature	
STORAGE TEMPERATURE	-4° ~ 158°F (-20° ~ 70°C)	
RELATIVE HUMIDITY	10~90% RH (no condensation)	



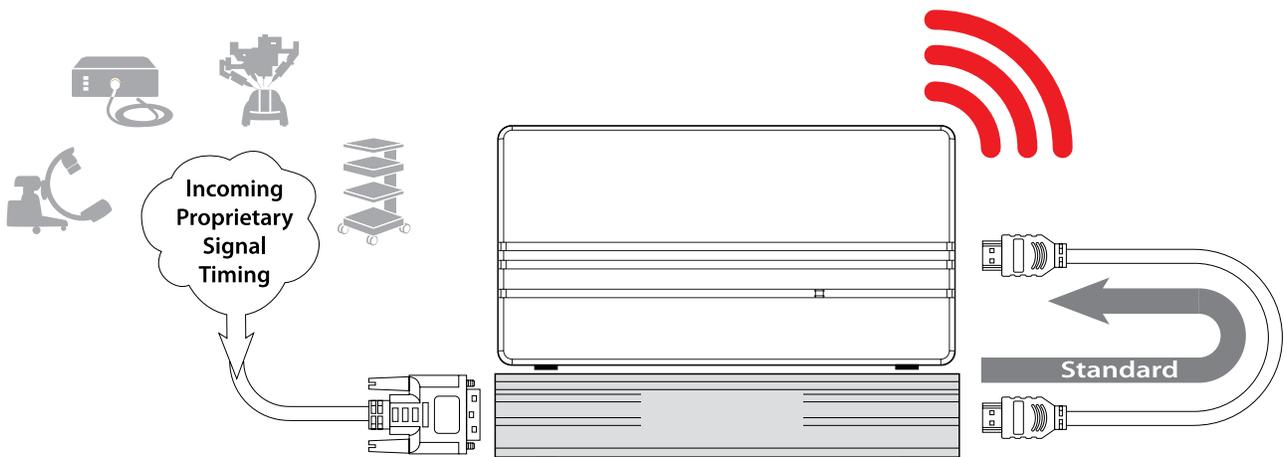
5.1 DVI CONVERTER SCALER



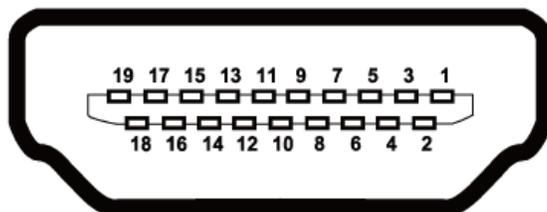
Improve wireless reliability and video connectivity with the CW-HDMDVI-100

The CW-HDMDVI-100 is a DVI converter and scaler created to provide a “clean” output signal complying with industry standards. It allows the user to upscale a lower resolution to HD. Some medical device manufacturers prefer not to use the normal standardized timings for HD resolutions. If this is the case with your intended source, then the W-HDM3D-100-SET will be unable to successfully transmit video from your source to the desired display. In this situation, the CW-HDMDVI-100 scaler/converter can be used to regulate the signal from the source into a standardized video signal that the W-HDM3D-100-SET system can understand.

The CW-HDMDVI-100 is designed to be used with, and easily connected to, AVENVIEW wireless W-HDM3D-100 product.



5.2 SIGNAL PIN ASSIGNMENT



TRANSMITTER

Pin 1	T.M.D.S. Data2 +	Pin 11	T.M.D.S. Clock Shield
Pin 2	T.M.D.S. Data2 Shield	Pin 12	T.M.D.S. Clock-
Pin 3	T.M.D.S. Data2 -	Pin 13	NC
Pin 4	T.M.D.S. Data1 +	Pin 14	NC
Pin 5	T.M.D.S. Data1 Shield	Pin 15	DDC SCL
Pin 6	T.M.D.S. Data1 -	Pin 16	DDC SDA
Pin 7	T.M.D.S. Data0 +	Pin 17	DDC Ground
Pin 8	T.M.D.S. Data0 Shield	Pin 18	+5V Power
Pin 9	T.M.D.S. Data0 -	Pin 19	Hot Plug Detect
Pin 10	T.M.D.S. Clock+		

RECEIVER

Pin 1	T.M.D.S. Data2 +	Pin 11	T.M.D.S. Clock Shield
Pin 2	T.M.D.S. Data2 Shield	Pin 12	T.M.D.S. Clock-
Pin 3	T.M.D.S. Data2 -	Pin 13	NC
Pin 4	T.M.D.S. Data1 +	Pin 14	NC
Pin 5	T.M.D.S. Data1 Shield	Pin 15	DDC SCL
Pin 6	T.M.D.S. Data1 -	Pin 16	DDC SDA
Pin 7	T.M.D.S. Data0 +	Pin 17	DDC Ground
Pin 8	T.M.D.S. Data0 Shield	Pin 18	+5V Power
Pin 9	T.M.D.S. Data0 -	Pin 19	Hot Plug Detect
Pin 10	T.M.D.S. Clock+		



5.3 INPUT TIMING

Video Format	Vertical Refresh	Color Space	Sampling	Bits/Pixel
420p	59.94/60Hz	YCbCr	4:2:2	24/30-bits
			4:4:4	24/30-bits
		RGB	4:4:4	24/30-bits
720p	50Hz	YCbCr	4:2:2	24/30-bits
	59.94/60Hz		4:4:4	24/30-bits
		RGB	4:4:4	24/30-bits
1080i	50Hz	YCbCr	4:2:2	24/30-bits
	59.94/60Hz		4:4:4	24/30-bits
		RGB	4:4:4	24/30-bits
1080p	23.976/24Hz	YCbCr	4:2:2	24/30-bits
	50Hz		4:4:4	24/30-bits
	59.94/60Hz	RGB	4:4:4	24/30-bits
VGA	60Hz	RGB	4:4:4	24/30-bits
WVGA	60Hz	RGB	4:4:4	24/30-bits
SVGA	60Hz	RGB	4:4:4	24/30-bits
SXGA	60Hz	RGB	4:4:4	24/30-bits
VGA	60Hz	RGB	4:4:4	24/30-bits
WSXGA+	60Hz	RGB	4:4:4	24/30-bits

5.4 AUDIO FORMAT

Audio up to 2-ch. 24-bit 192 kHz LPCM and 8-ch. 24-bit 96 kHz LPCM as well as surround sound audio (Dolby Digital, DTS) is supported.

Audio	Audio Sample Rate						
Multiples of Fs	LPCM 2/6/8-channels					LPCM 2-channel	
	DTS & Dolby Digital 2/6 channels						
	32 kHz	44.1 kHz	48 kHz	88.2 kHz	96 kHz	176.4 kHz	192 kHz
128	4.096	5.645	6.144	11.29	12.288	22.579	24.576
256	8.192	11.29	12.288	22.579	24.576	45.158	49.152



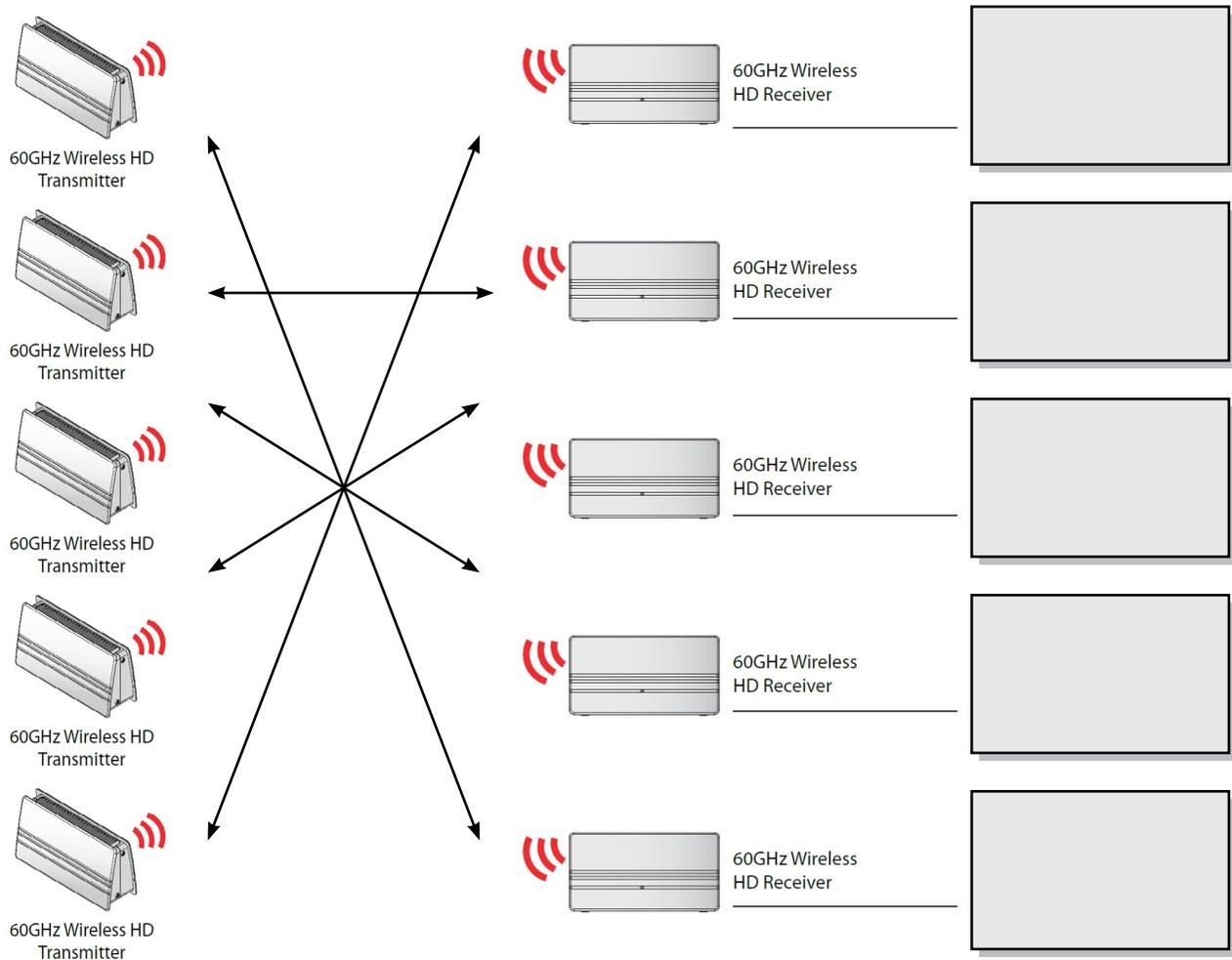
5.5 WIRELESS VIDEO AREA NETWORK (WVAN)

The 60GHz W-HDM3D-100 transmitter and receiver provides Wireless Video Area Network (WVAN) connectivity. A WVAN network allows a TX to selectively synchronize with up to six Rx. In turn, a Rx to selectively synchronize with up to six TX. Several combinations can be made.

5.6 CONFIGURATION –MULTIPLE AND SINGLE

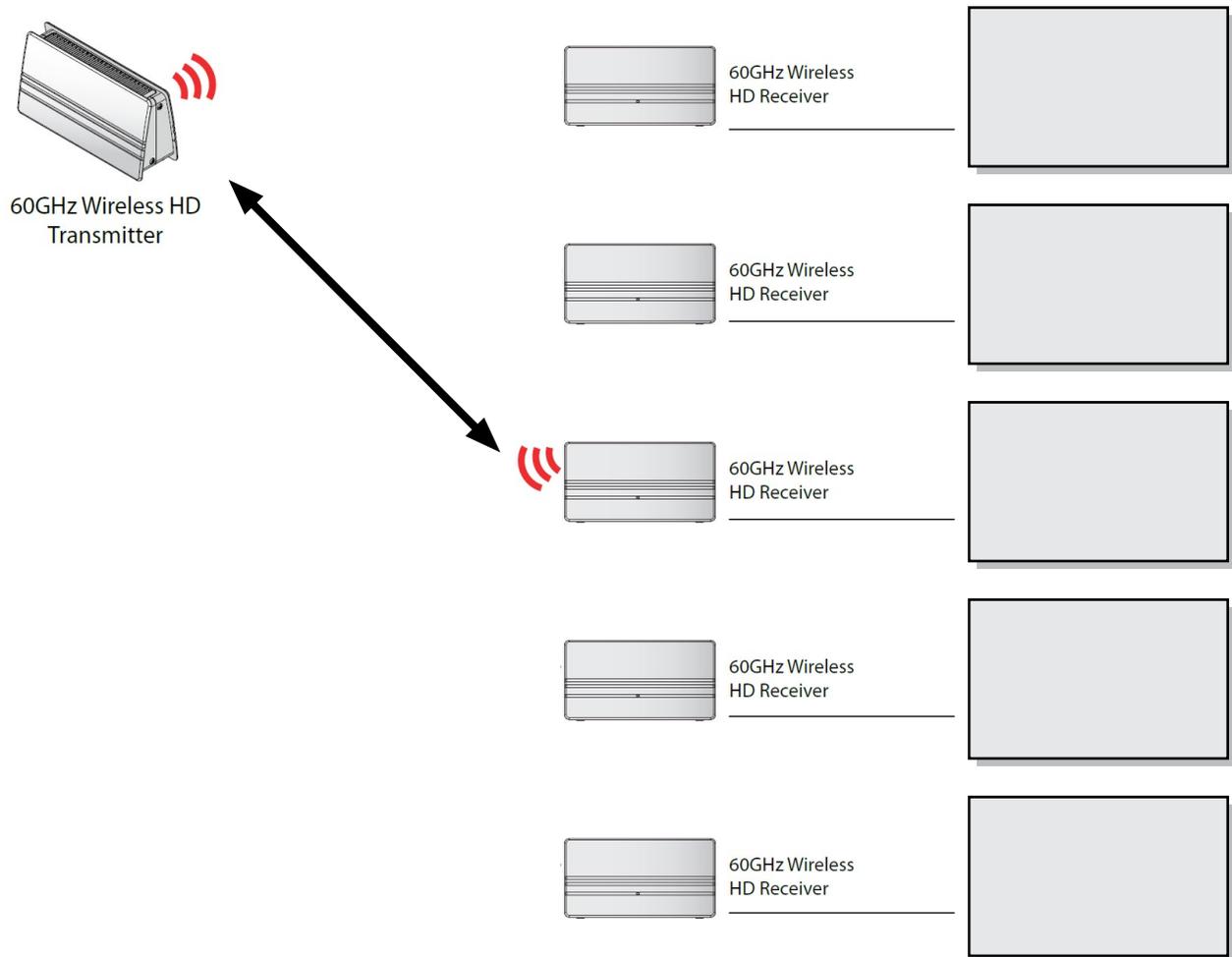
In the diagram below, they are 5 TX and 5 RX transmitting and receiving video simultaneously.

- Each TX has synchronized with RX on its own channel.
- When the Wireless Transmitter is first powered on, it searches for a Wireless receiver via WVAN.
- When the TX synchronizes with RX, the WVAN ID of the RX is stored in memory, of the TX, as a preferred ID.
- The next time the TX is powered on, it will search for the preferred WVAN ID of the RX.
- Switching between TX and RX is done by pushing and holding down the “Switch” button for 3 seconds or until the LED flashes. The TX will connect to the next available Rx in the network.



5.7 CONFIGURATION –MULTIPLE AND SINGLE

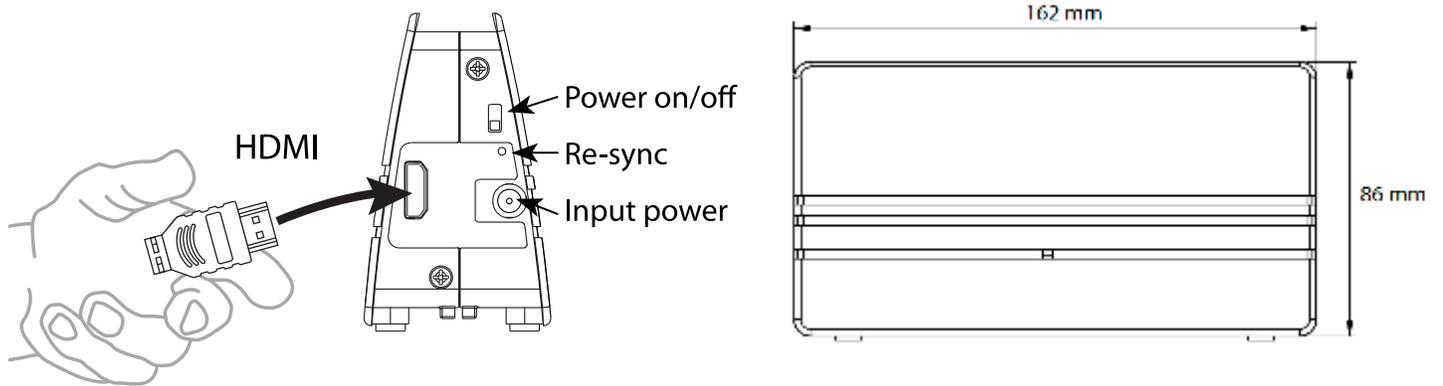
In the diagram below, there is 1 TX and 6 RX devices CONNECTED in a single room. For example with this scenario, the TX has the option to synchronize with any one of the 6 Rx on its WVAN.



-Switching between TX and RX is done by pushing and holding down the "Switch "button for 3 seconds or until the LED flashes. The TX will connect to the next available Rx in the network



5.8 QUICK STARTUP



LED INDICATORS

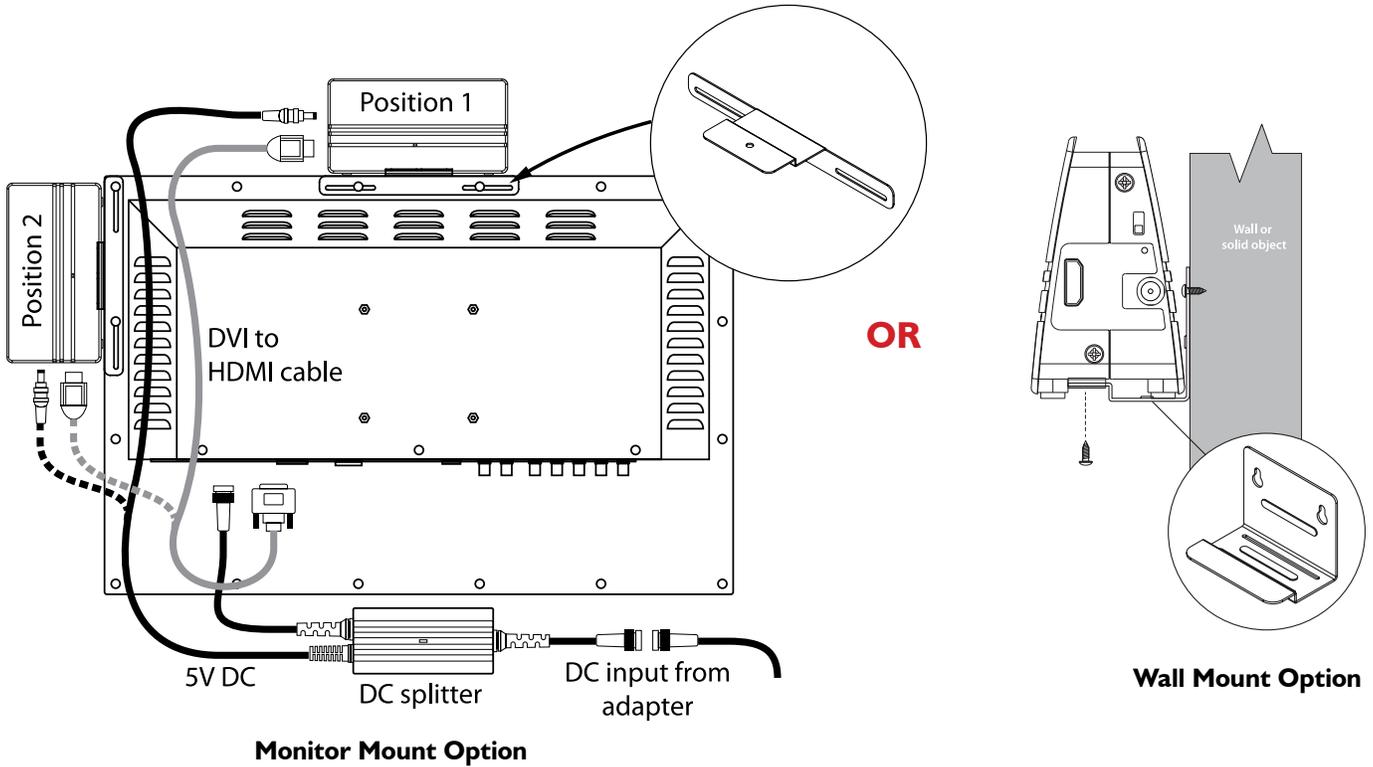
LED	COLOR	BEHAVIOR	
POWER	GREEN	BLINKING	Tx and Rx have not found each other yet
		ON	Devices connected.
		OFF	The LED will darken when the power switch is turned off.

CONFIGURATION

HDMI	Connect the HDMI end of the cable to the HDMI port on the Rx/TX. Connect and the DVI end to the medical equipment and/or monitor
DC-IN	Connects to the power adapter or DC splitter 5volt output
POWER SWITCH	Switch used to turn on/off the Tx/Rx.
RE-SYNC	Please press to sync with receiver



Receiver Installation



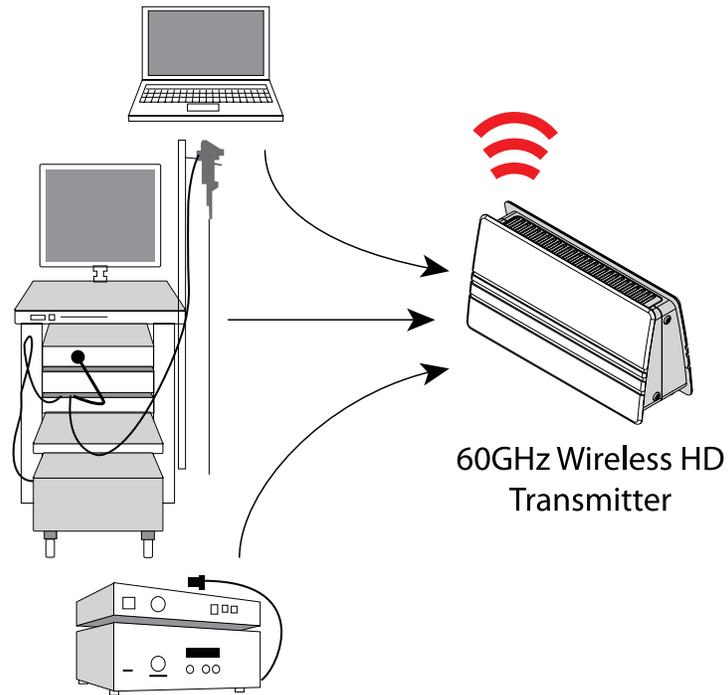
Monitor Mount Option

1. Choose a position 1 or 2.
2. Remove two mounting screws, place the bracket in position and reinstall the screws.
3. Connect DVI to HDMI cable between the monitor and W-HDM3D-100 Rx.
4. Connect DC splitter between the DC power adapter and monitor.
5. Connect the 5volt cable of the DC splitter to the W-HDM3D-100 Rx.
6. Align the cables

Wall Mount Option

1. Position the wall mount bracket on the wall and mark the screw locations.
2. Insert the two screws into the wall.
3. Slide the Rx or Tx onto the bracket and lock in place with a screw from the underside.
4. Align the bracket holes with the wall screws push and slide down into position.

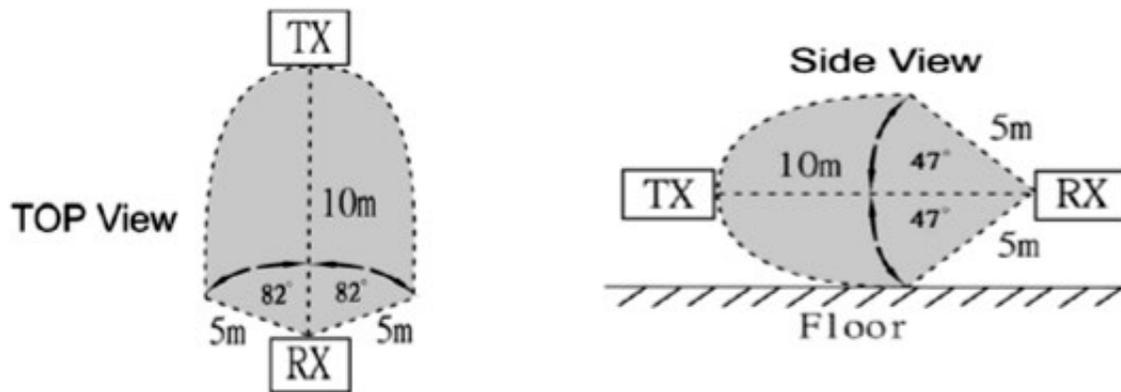




1. Connect the transmitter (TX) to the output source such as a Endoscope system.
2. Connect power adapter for the TX to an AC outlet.
3. Turn the power ON for both the 60GHz Rx and TX
4. The 60GHz W-HDM3D-100 Transceivers will sync and begin transmitting media.

5.11.1 DVI-VIDEOWALL-12X Front Panel

Please refer the location setups below to arrange your units in the room.



W-HDM3D-100- options/additions:

CW-HDMDVI-100 Scalar/Converter

Some medical device manufacturers prefer not to use the normal standardized timings for HD resolutions. If this is the case with your intended source, then the W-HDM3D-100 will be unable to successfully transmit video from your source to the desired display. In this situation, the CW-HDMDVI-100 scalar/converter can be used to regulate the signal from the source into a standardized video signal that the W-HDM3D-100 system can understand.

CW-PS-HDMSP-100 DC Splitter

There are times in the operating room when finding enough power outlets is an issue. In order to minimize the amount of power outlets used by the W-HDM3D-100 pair, the DC Splitter option can be used in order to draw power from the monitor cable to be used for the W-HDM3D-100 receiver. This DC Splitter will work only with Foreseeson monitors, and has been tested to have no effect on the performance of either the monitor or the W-HDM3D-100 receiver.

Please note Tx=Transmitter, Rx=Receiver

a. If you are not using the DC splitter:

Connect the power cord into an available electrical outlet and plug in the power cord into the power adaptor. Connect the power adaptor to the W-HDM3D-100 Rx power input.

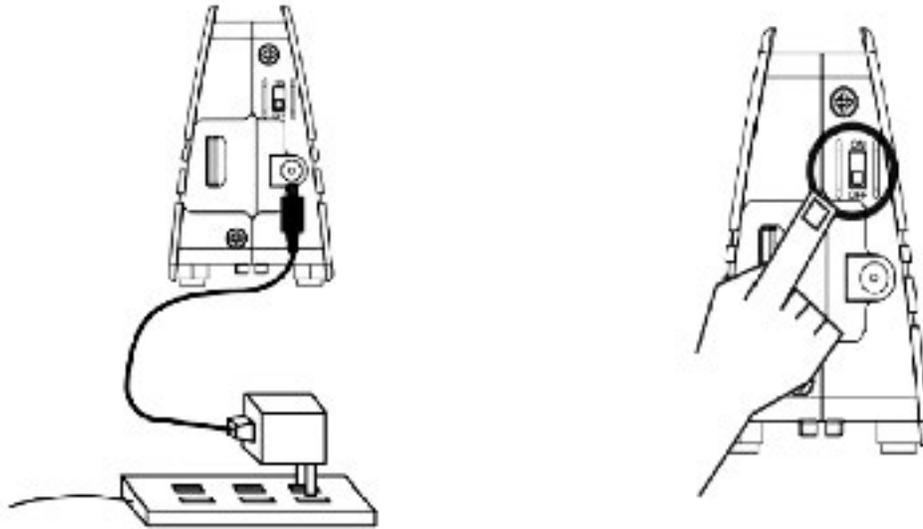
If you are not using the DC splitter:

Connect the power cord into an available electrical outlet and plug in the power cord into the power adaptor. Connect the power adaptor to the W-HDM3D-100 Rx power input.

b. If you are using the CW-HDMDVI-100 scalar/converter:

Connect the power cord into an available electrical outlet and plug in the power cord into the power adaptor. Connect the power adaptor to the CW-HDMDVI-100 power input. Connect the CW-HDMDVI-100 power cable between the CW-HDMDVI-100 power output and the W-HDM3D-100 Tx power input.





c. If you are not using the CW-HDMDVI-100 scalar/converter:

Connect the power cord into an available electrical outlet and plug in the power cord into the power adaptor. Connect the power adaptor to the W-HDM3D-100 Tx power input.

d. Turn on the W-HDM3D-100 Rx

e. If you are using the CW-HDMDVI-100 scalar/converter:

Connect one end of the HDMI cable to the W-HDM3D-100 Tx, and the other end of the HDMI cable to the CW-HDMDVI-100 HDMI output. Use one of the HDMI to DVI-D cables to connect your source to the CW-HDMDVI-100 scalar/converter.

f. If you are not using the CW-HDMDVI-100 scalar/converter:

Connect the HDMI end of the connection cable to the W-HDM3D-100 Tx and the DVI-D end to your monitor.

g. Use the remaining HDMI to DVI-D cable to connect the W-HDM3D-100 Rx to the monitor.

h. If you are using the DC splitter:

Connect the DC splitter between the monitor's power cable and the monitor. Plug in the power cable into the W-HDM3D-100 Rx power input.

i. Connect the W-HDM3D-100 transmitter (Tx) to the output source such as an Endoscope system

Note: Remember to turn on your monitor and select the appropriate DVI input that is connected to the W-HDM3D-100 receiver (Rx).

The 60GHzWirelessHD W-HDM3D-100 Transceivers will sync and begin transmitting media.

For best results, verify the following:

- The Tx and Rx are facing each other.
- The Tx and Rx are no more than 10 meters apart.
- The Tx and Rx are between 6-10 ft above the floor.
- The Tx and Rx are not in a confined location



6. MAINTENANCE OF QUALITY OF SERVICE

The W-HDM3D-100 is designed to maintain an adequate Quality of Service during its use in a hospital operating room environment

6.1 Design Characteristics: Interference from other W-HDM3D-100 Devices

The W-HDM3D-100 uses Beam Forming Non Line Of Sight technology (BFNLOS). As a result, W-HDM3D-100 pairs in one location will NOT transmit through solid walls or doors with W-HDM3D-100 devices in another location. Using BFNLOS, the W-HDM3D-100 has been tested to work consistently within a 10m radius of the transmitter.

Also, only a single W-HDM3D-100 Transmitter can be paired with a single W-HDM3D-100 Receiver at a time. It's HDCP protocol not only blocks hackers from high jacking or altering a signal, but it also stops other W-HDM3D-100 Transmitters/Receivers from breaking into the communication between a paired Transmitter and Receiver. If more than one W-HDM3D-100 Transmitters/Receiver pairs are operating simultaneously in the same room, each will be on a separate frequency within the 60GHz band. The W-HDM3D-100 System can operate on one of six different frequencies in the 60GHz band. This limits the maximum number of pairs of W-HDM3D-100 Transmitters/ Receivers that can operate simultaneously in the same room to six. As a result of these design considerations, it is not possible for one W-HDM3D-100 System to interfere with another W-HDM3D-100 System.

6.2 Design Characteristics: Accommodation of Diminished Video Signal Quality

Like all digital monitor Transmitters/Receivers, a certain quality of signal is necessary to produce an image. Unlike analog devices that can accommodate a continuum of visual quality, digital displays require a certain amount of data, or else no picture is available.

In the event wireless degradation occurs, The W-HDM3D-100 Systems takes steps to minimize any potential negative effects. In instances of wireless signal degradation, the W-HDM3D-100 device will continue to display a complete image, however at a lower visual resolution (the physical resolution remains the same).

Beam-forming technology allows for multiple angles to be used during transmission; thus, if one angle is blocked (e.g. – a person walks in front of the line-of-sight), a different angle can be used by bouncing the signal off the interior walls in order to maintain the transmission. When a cleaner path is found, the W-HDM3D-100's image quality will revert back to the full visual resolution. The following minimum distances have been tested to demonstrate noninterference between the listed devices and the W-HDM3D-100. If the W-HDM3D-100 is thought to be causing or receiving interference with the following devices, then move the devices away from each other, maintaining at least the following separations:

EQUIPMENT	TRANSMITTER	RECEIVER
Electrocautery	> 2 feet	> 1 foot
RFID	> 1 cm	> 1 cm
2.4GHz Wireless	> 6 inches	> 6 inches
5.8 GHz Wireless	> 6 inches	> 6 inches
Cell Phone	> 1 cm	> 1 cm
Bluetooth	> 1 cm	> 1 cm



7. REGULATORY

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IC Class B Statement (Canada)

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.

Cet appareil numérique de la classe B conforme à la norme NMB-003 et RSS-210 du Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

EU Declaration of Conformity (DoC)

Hereby declares that this device is in compliance with the essential requirements and other relevant provisions of the R&TTE Directive 1999/5/EC.

- LVD, EMC, EMF, Radio as attested by conformity with the following harmonized standards:
- EN 60950-1:2001 + A11:2004
- EN 60065:2002 + A1:2006
- EN 301 489-1 V1.8.1 (2008-04)
- EN 62311:2008
- EN 302 567 V1.1.1



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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