AVK-950
## HDMI with USB Extender & Video Wall over IP Ethernet

The AVK-950 is a perfect solution for HDMI Video-Wall over IP Ethernet. It includes AV-950T Transmitters and AV-950R / AV-951R100 Receivers. The AV-950T Transmitters connect to PC or Blu-ray player for the HDMI input source. The AV-950R / AV-951R100 Receivers connect to HDMI Video-Wall displays and audio devices. The communication protocol between the units is Internet Protocol (IP) based; any Gigabit Ethernet Switch can be used for the Transmitter / Receiver inter-connection. That means the HDMI video input source can be located away from the Video-Wall displays but within the local network.

For Video-Wall configuration, the system provides Single Transmitter mode and Multiple Transmitters mode. The Single Transmitter mode means only One Transmitter is need for the whole Video-Wall block (only need one TX for a 3 x 3 video-wall), the Multiple Transmitters mode means one Transmitter is need for each Row of a video-wall block (needs 3 TXs for a 3 x 3 video-wall). It is very easy and flexible to expand your Video-Wall from 2 x 2 to 3 x 3 and up to 8 x 8 by adding transmitter and receiver units.

This illustrates the setup of 2 TX units, 1 stand-alone RX unit, 4 video-wall RX units (2 x 2) in Single Transmitter mode, 2 HDMI input sources (one PC and one PS3). In relation to the video wall system, 2 TX units can interchange the film source, through the Gigabit switch to connect with 5 RX units. 4 RX units consist of 2 x 2 Video Wall, 1 RX unit connect to display in local for users to watch Video Wall situation.

Bill

Transmitter (TX) units x 2, Receiver (RX) units x 5, Gigabit switch with IGMP function x 1, PC with HDMI output x 1 or Sony PS3 Blu-Ray player with HDMI output x 1, Controller PC x 1, HDMI displays x 5
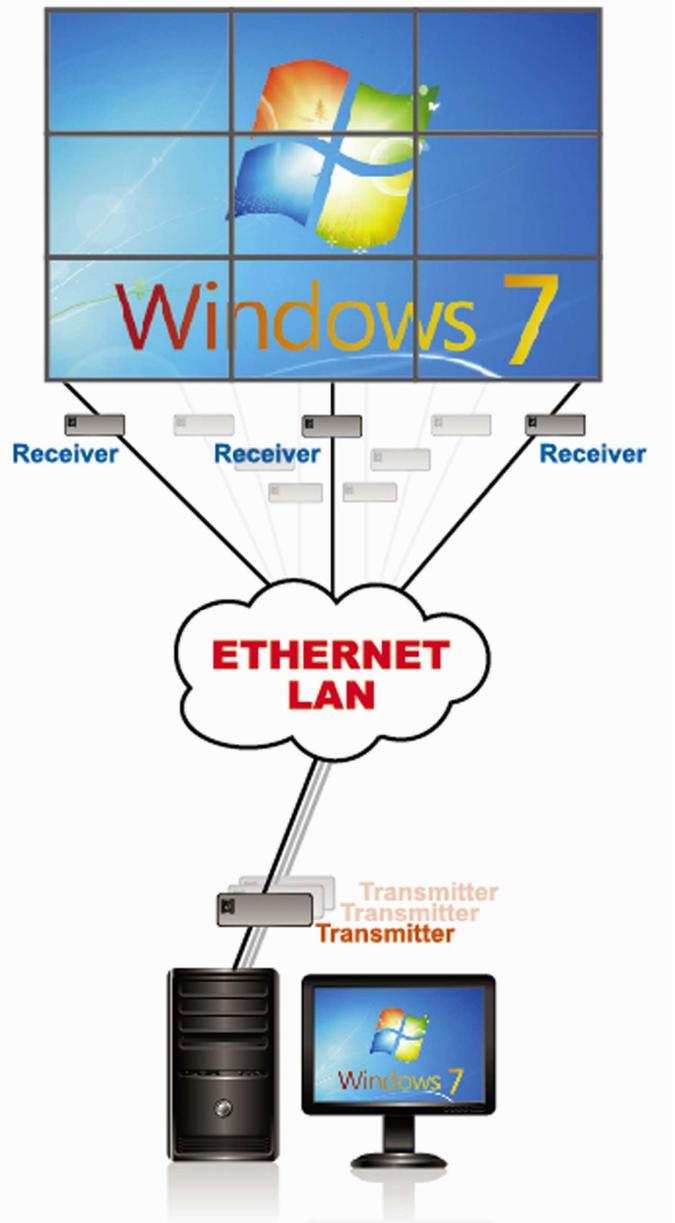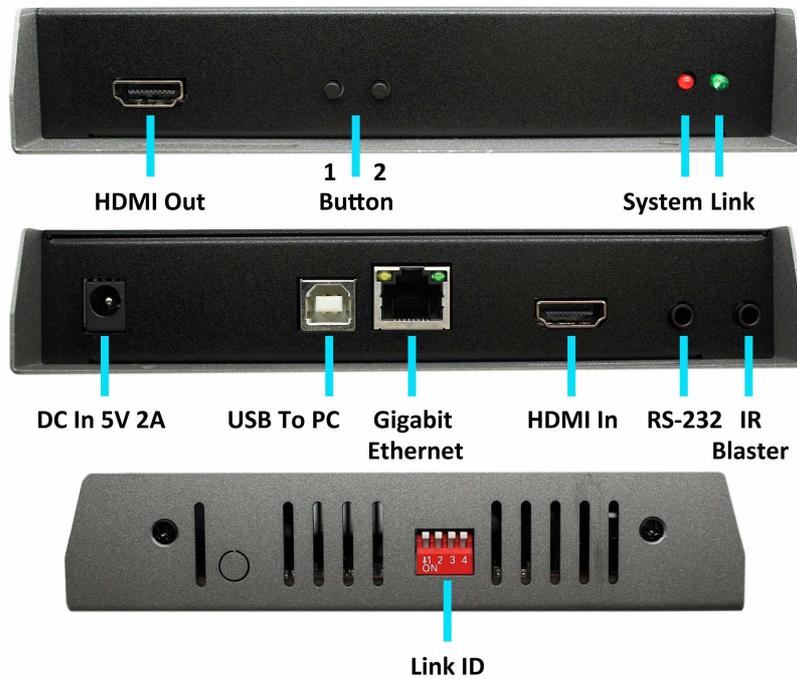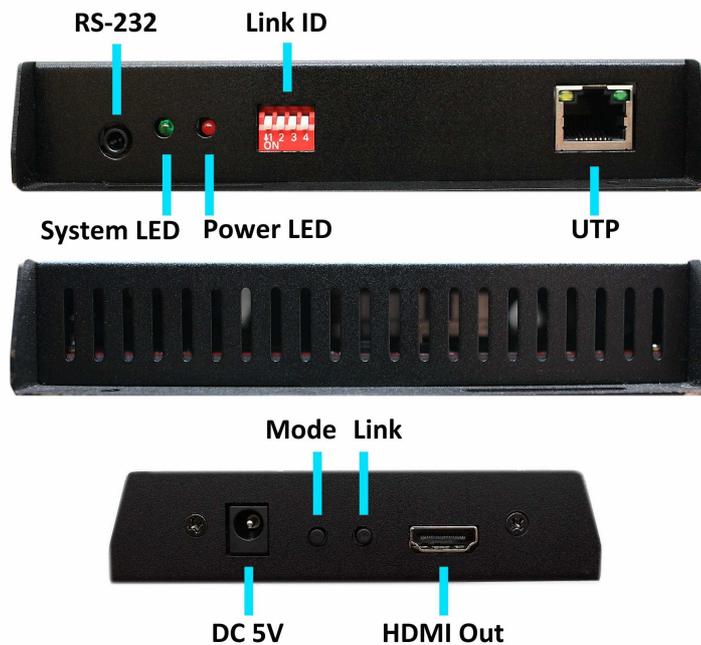
Features

❖ Support HD video 1080p and PC 1920 x 1080 @ 60Hz resolution.

❖ Based on standard Internet Protocol, any Gigabit Ethernet switch can be used for inter-connection. Easy cabling, easy installation and easy maintenance.

❖ Support one-to-one (unicast) and one-to-many (multicast) mode for Audio/Video real time broadcasting.

❖ Supports many- to-many mode for group broadcasting if the Ethernet switch has the IGMP function.

❖ The HDMI video input source can be remote from the Video-Wall displays anywhere within the local network.

❖ Support RS-232 bridge option, you can send RS-232 data in between PC and screens in Multicast or Unicast mode.

❖ Cost effective, with high flexibility for expansion. Simple to move from 2 x 2 to 3 x 3 and up to 8 x 8. Integrated support with the IR / USB bridge extension. You can use the IR remote controller or USB keyboard/mouse at the Receiver site to control the Blue-ray player or PC at the source site.

❖ Plug-and-play setup and an embedded Management Control Web-Page in the transmitter unit. Simply use Web Browser to manage video-wall settings and operation.

❖ Windows based Management Software is available for Transmitters / Receivers connection and Video-Wall management.

❖ Windows based Setting Software is available to configure the IP address, Multicast / Unicast, RS-232 baud rate, video-wall enable / disable, …

❖ FCC, CE, RoHS.

Front and Back View

AV-950T Transmitter (HDMI)

HDMI Out   **1 2**   **System Link**
                      Button

DC In 5V 2A   **USB To PC**   **Gigabit**   **HDMI In**   **RS-232**   **IR**
                                   Ethernet   **Blaster**

Link ID

AV-951R100 Receiver (HDMI)

RS-232   **Link ID**

System LED   **Power LED**   **UTP**

Mode Link

DC 5V   **HDMI Out**

Specification

Model No.		AV-950T Transmitter	AV-950R Receiver	AV-951R100 Receiver
Connectors	HDMI Input	1	N/A	
	HDMI Output	1 (local loop-out)	1	
	Power	5V 2A		
	Network Port	1 x RJ45 Female Gigabit		
	USB Upstream B type	1	N/A	
	USB Downstream A type	N/A	4	N/A
	VESA 100 mounting	N/A	N/A	VESA 100
	3.5mm Stereo Line-Out	N/A	1	
	3.5mm Microphone Jack	N/A	1	
	IR remote control (option)	1 x IR Blaster	1 x IR Receiver	
	RS-232	Option		
	Remote Power On/Of	Option		
Resolution		1920 X 1080 @60Hz (or 1080p)		
Inter-connect Cable		CAT 6 / 7		
Environment	Operation Temperature	0 ~ 70°C		
	Storage Temperature	-20 ~ 85°C		
	Humidity	0 ~ 80% Non-condensing		
Physical Properties	Material	Metal (Black)		
	Weight	577 g	579 g	376 g
	Dimension (L x W x H)	160x140x30 mm	160x140x30 mm	135x110x25 mm

Diagram

Video Wall (One Source)

Video Wall (Two Source)
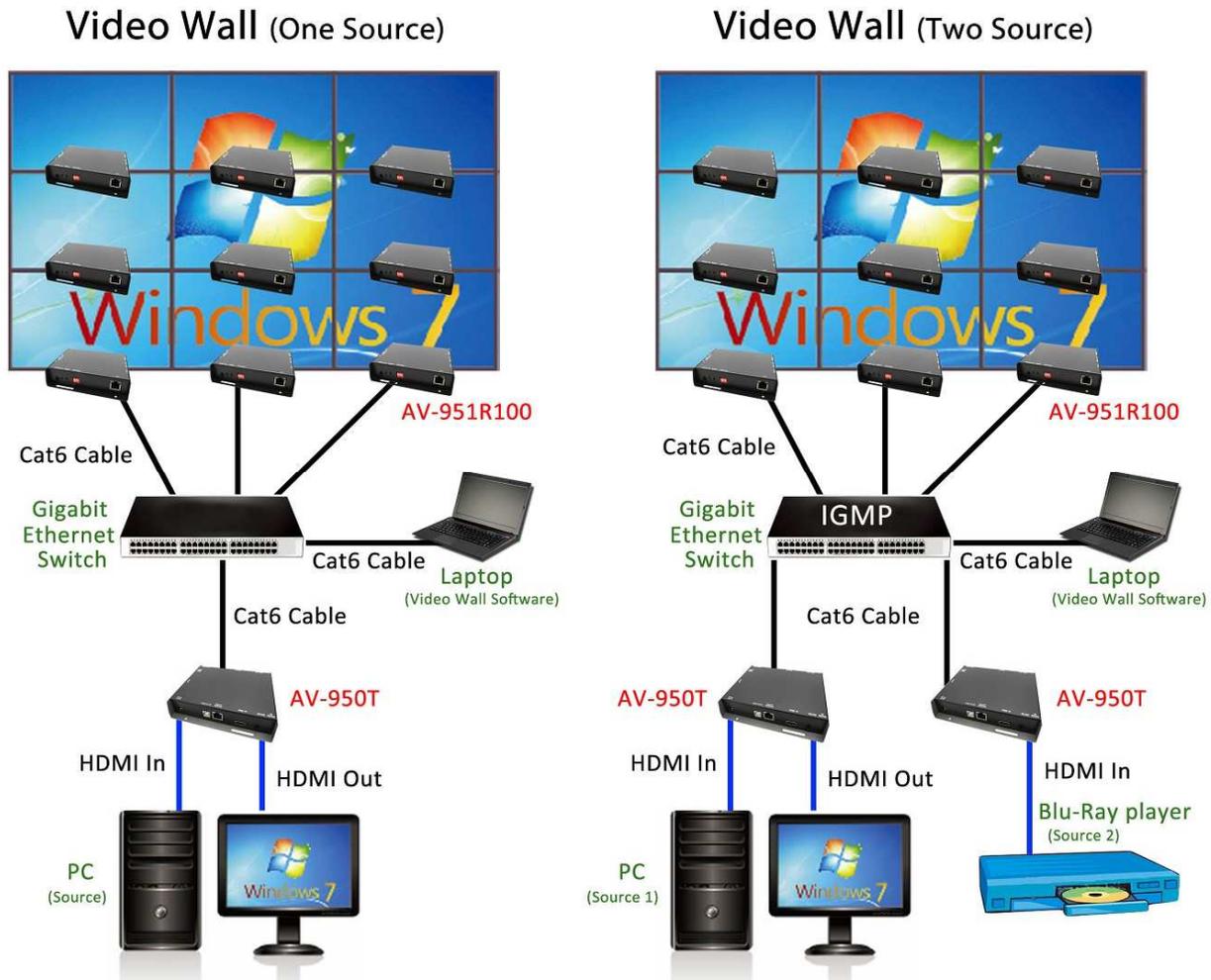
AVK-950's Video Wall framework works as pair: 1 source with an AV-950T. When there are 2 sources you will need to use 2 AV-950T. 1 screen collocates with 1 AV-951R100, so 3 x 3 Video Wall collocates with 9 AV-951R100.

When you use more than two AVK-950 Video Wall frames, you must use Gigabit Switch which has IGMP. The Video Wall Software can directly switch between different video sources, and only wait for 15 seconds. But if you only play the switching effect on 1 source, it can immediately switch to display without waiting.

Ordering Information

AV-950T	HDMI over IP Transmitter with USB bridge upstream.
AV-951R100	HDMI over IP Receiver. (VESA 100 size)