

AVP-EN/DE1K-100

1080P HDMI over IP Encoder/Decoder



User Manual

Version: 20250220

Introduction

aegis AVP 1K series over IP includes H.264/H.265 IP encoder (AVP-EN1K-100) and decoder (AVP-DE1K-100), providing a complete end-to-end multimedia audio and video streaming system. Video, audio and RS232 signals can be transmitted simultaneously throughout the system. It can support up to 8 x 8 display video walls, and the input and output HDMI resolutions support up to 1920 x 1080@60Hz. This system requires a 1Gbps PoE network switch for power supply. The system provides the flexibility of phased purchase and gradual implementation. The encoders and decoders can implement simple matrices and provide simple, easy and flexible control including RS232. Control software: AGS-TAP Lite provides two versions: Windows and Android (for system settings). In addition, the decoder supports CEC/RS232 commands for powering on and off the display. This series provides the best solution for conference rooms, shopping malls, hotels, monitoring centers, schools, corporate training environments, etc.

Features

- Transmit HDMI and RS232 signals through the network.
- The encoder supports resolutions up to 1920 x 1080@60Hz.
- The decoder can detect the display's EDID to automatically adjust the resolution, outputting resolutions from 480p@60Hz to 1920 x 1080@60Hz.
- Supports up to 8 x 8 display video walls.
- Use AGS-TAP Lite (Windows and Android versions) to operate the encoder and decoder video and audio delivery.
- Support RS232 transmission between encoder and decoder.
- Transmit images, audio and RS232 signals simultaneously, from the same source to the same destination.
- Transmit audio and video, RS232 streaming via Unicast protocol.
- Supports EDID import encoding and EDID export from monitors and then importing into decoders.
- Support CEC command, one-click to turn on or off the display.
- Support HDCP.
- Support fast and seamless screen switching.
- Supports power supply by PoE devices.
- In an environment without a DHCP Server, the encoder/decoder will automatically generate a dynamic IP address when it is started.

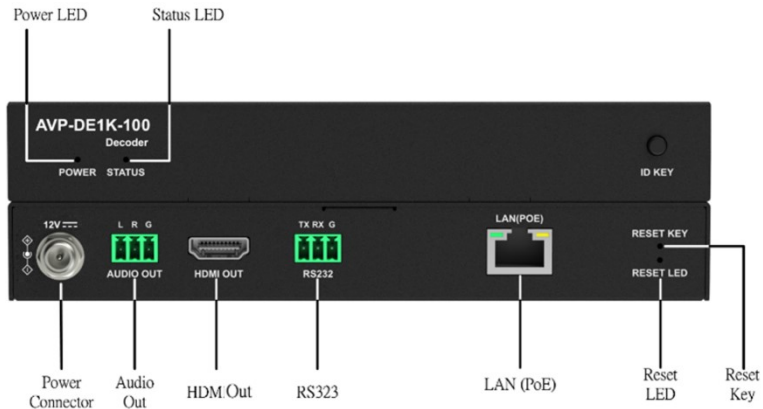
Specification

Video		
Product	Encoder	Decoder
Input Port	1 x HDMI	1 x LAN
Input Resolutions	up to 1080P@60Hz	
Output Port	1 x LAN	1 x HDMI
Output Resolutions	up to 1080P@60Hz	
Video Protocol	H.265 Video Compression	
Audio		
Input Port	1 X HDMI	1 x LAN
Output Port	1 X LAN, 1 X Phoenix connector	1 x HDMI, 1 x Phoenix connector
Audio Format	MPEG4-AAC and LPCM Stereo	
Control		
Control Method	AGS-TAP Lite (Android APP, and Windows Application)	
General		
Operating Temperature	0°C ~ +45°C (+32°F ~ +113°F) 10% ~ 90%, non-condensing	
Storage Temperature	-20°C ~ +70°C (-4°F ~ 140°F) 10% ~ 90%, non-condensing	
Power Supply	DC12V 1A /PoE	
Power Consumption	5W (Max)	
ESD Protection	Human body model: ±8kV (air-gap discharge) , ±4kV (contact discharge)	
Product Dimension	175mm(W) x 100.2mm(L) x 25mm(D)/6.9" x 3.9" x 0.98"	
Net Weight	0.60Kg/1.32lbs	

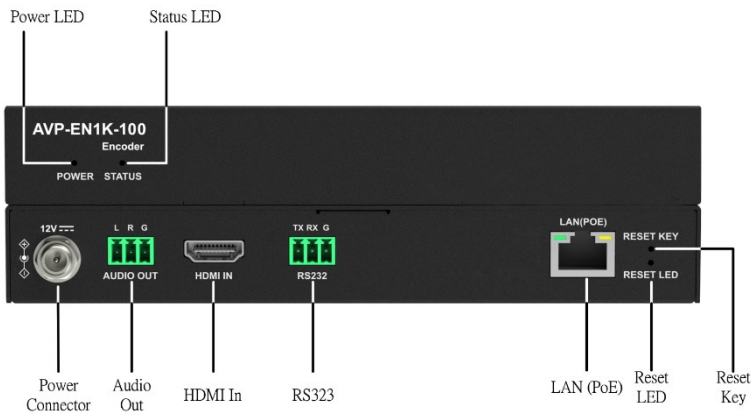
Package Contents

1. 1 X Encoder / Decoder
2. 1 X Power Adapter (DC 12V 1A),
3. 1 X Exchangeable US Plug,
4. 2 X Phoenix Male Connectors (3.5 mm, 3 Pins),
5. 2 X Mounting Ears (with Screws).

Panel Layout



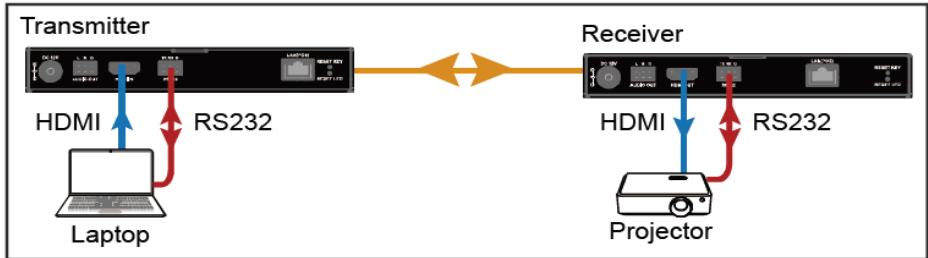
AVP-DE1K-100 panel



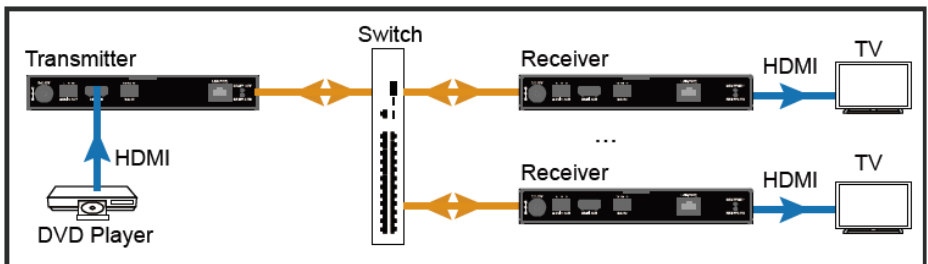
AVP-EN1K-100 panel

Application

1-1: Extender



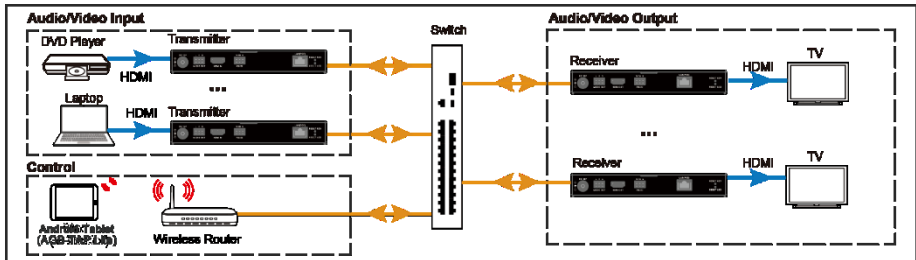
1 - n: Splitter



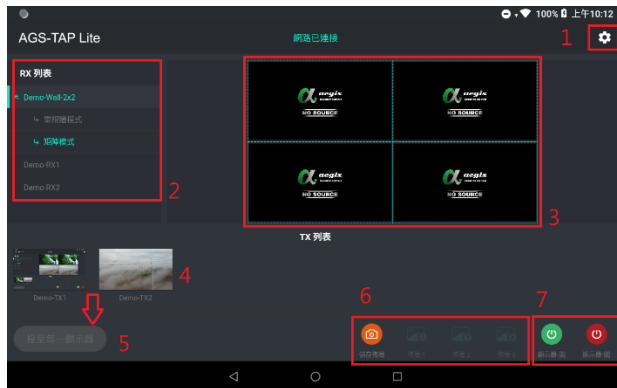
m - n: Matrix/Video Wall

To configure the matrix and video wall, perform the following:

- (1) Scan the QR code or search "AGS-Tap Lite" in the App store to install AGS-Tap Lite using your phone or tablet PC. Android
- (2) Connect all transmitters, receivers, and the wireless router to the network switch according to the following diagram shown:



Configure the wireless router properly, and then connect your phone/tablet PC to the Wi-Fi network. Then launch AGS-Tap Lite, AGS-Tap Lite will start searching for online devices, and the following main screen will appear:



No.	Name	Description
1	System Configuration Button	Click this button to enter the system configuration page for the functions: (1) Naming and Sorting. (2) Video Wall Settings. (3) Advanced Settings. (4) System Information.
2	RX List	Shows the list of online RX devices, including single devices and devices for video walls.
3	RX Preview	Shows the live preview of current RX assignments.
4	TX List	Shows the IP stream's live preview from the TX device.
5	To All Screens	Drag a TX from the TX list over this button means the switching of this TX to all RX devices in the RX list, including video walls.
6	Save Screens Layout	Save the planned screen layout for a fast call-out to use later.
7	Display On/Off	Display On: Turn on all RXs' displays. Display Off: Set all RXs' displays to standby state.