

Genesis™ 500 AV-over-IP Streaming G501EH/G501ES/G501DH



Overview

G501EH/G501ES are the new Genesis AV-over-IP streaming encoders. They can encode 1 HDMI input for up to 1080P using H264/H65 video codecs. Both units support multiple streaming protocols such as RTMP and RTSP, giving user the chance of easy streaming on live platforms like YouTube or decoding using any 3rd party device that supports the corresponding protocol.

G501DH is the Genesis AV-over-IP streaming decoder. It can decode up to 4 live streams and output them in up to 2x2 multiview with a resolution up to 4k.

All the units are powerful and easy to carry, which makes them a perfect solution for live streaming of training courses and lectures.

Key Features

- Support encoding or decoding depending on the model
- Flexible option of models for HDMI and SDI input
- Support multiple streaming protocols, including RTMP, HTTP, HLS, SRT, RTP, ONVIF, UDP Unicast/Multicast and RTSP over UDP/TCP
- Support encoding 1 HDMI or SDI input in two stream channels with a resolution up to 1080P
- Support codec configuration for parameters such as resolution, bitrate and key interval
- Support decoding up to 4 streams and output via HDMI or SDI at a single screen, 1x2 or 2x2 multiview.
- Support selectable audio input or output between 3.5mm mini jack and embedded HDMI
- RS485 port for PTZ camera control
- User-friendly WebUI for configuration

Specifications

Model Name	G501EH	G501ES	G501DH
Video Port Interface	Input: HDMI x1 Output: HDMI x1	Input: SDI x1 Output: SDI x1	Output 1: HDMI x1 Output 2: SDI x1
HDMI Input Resolution	Up to 1920x1080	Up to 1920x1080	-
HDMI Output Resolution	Loop out of Input	Loop out of Input	Up to 3840x2160
Encoding Resolution	Up to 1920x1080	Up to 1920x1080	-
Encoding Format	H264/H265	H264/H265	-
Encoding Bitrate	16-20000	16-20000	-
Key Frame Interval	5-200	5-200	-
Simultaneous Streaming	Up to 2	Up to 2	-
Simultaneous Decoding	-	-	Up to 4
Support Operation Mode	Encoding	Encoding	Decoding
Support Protocol	RTMP, HTTP, HLS, SRT, RTP, ONVIF, UDP Unicast/Multicast and RTSP over UDP/TCP	RTMP, HTTP, HLS, SRT, RTP, ONVIF, UDP Unicast/Multicast and RTSP over UDP/TCP	RTMP, HTTP, HLS, SRT, RTP, UDP Unicast/Multicast and RTSP over UDP/TCP
Audio Input	Embedded HDMI or 3.5mm Jack	Embedded HDMI or 3.5mm Jack	-
Audio Output	-	-	Embedded HDMI or 3.5mm Jack
Audio Codec	AAC/MP3/MP2	AAC/MP3/MP2	-
User Interface	WebUI	WebUI	WebUI
IP Configuration	DHCP, Static (Default)	DHCP, Static (Default)	DHCP, Static (Default)
Dimension (W x D x H)	150x105x40mm	150x120x40mm	150x120x40mm
Weight	0.32kg	0.32kg	0.32kg
Operating Temperature	-4° ~ +140° F (-20° ~ +60° C)	-4° ~ +140° F (-20° ~ +60° C)	-4° ~ +140° F (-20° ~ +60° C)
Power Supply	12V3A	12V3A	12V3A
Power Consumption	2.8W	3.1W	2.8W

System Diagram

