

G SERIE Wireless Video Encoder

A cost-effective video encoding device



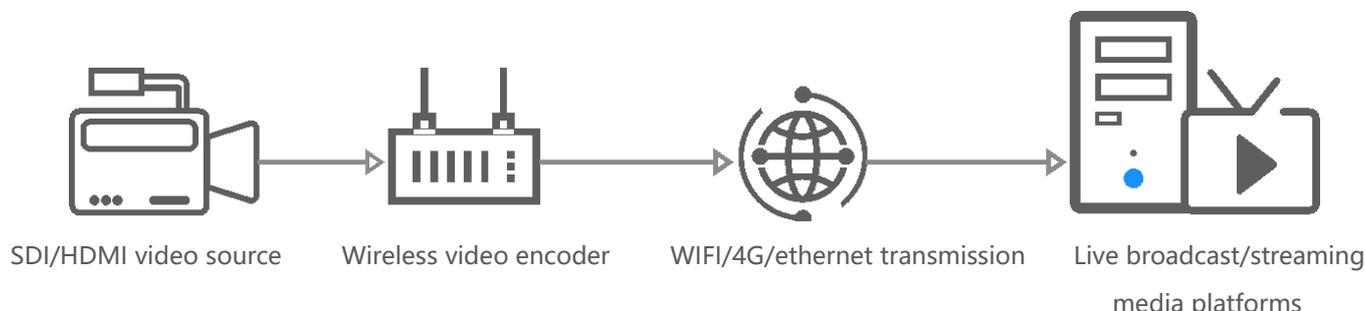
Descriptions

G series wireless video encoder can encode the SDI or HDMI video and push to network broadcast platforms through WIFI/USB expand 4G/wired to realize video transmission, which makes live broadcasting available anytime and anywhere. It supports SRT/RTMP/RTMPS/HLS/UDP/RTSP/Onvif protocols.

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|-------------------------|--------------------|--------------------------------|
| •SRT | •WiFi/4G/Wired | •Vertical Live |
| •Image and text overlay | •Recording storage | •PTZ control •7*24h mode |
| •SDK/API provided | •Cost-effective | •Multi-platform live broadcast |

Applications

Video production wireless transmission, conference/program/event webcast., video network transmission, video interactive connection, SDI camera network transformation, HDMI network transmission/live broadcast, video network recording, portrait live broadcast, etc.



Advantages

Built-in WIFI module or USB expand 4G, wireless video transmission/ live broadcast supported.

- Built-in dual-band (2.4G/5G Hz) WIFI module, and can support various channels to reduce interference from the same channel;
- Support USB extended 4G transmission, and wired network video transmission/live broadcast;
- Support satellite network transmission.

High quality chip solution and modular software system to ensure high image quality and high stability

- High quality chip, FPGA processing after video capture, H.264 algorithm optimization, different streaming protocols, etc., to ensure clear, smooth and high color reproduction;
- 8-layer PCB board design, dual CPU, modular software, low power consumption and low heat dissipation, voltage overload protection, automatic reconnection when power and network off, etc., ensure that the device is stable and can 7*24h continuous working available;
- Adjustable bit rate from 64kbps ~ 40Mbps;
- Input resolution supports up to 1080P60, the encoding output resolution is adjustable.

Powerful streaming media service (support SRT), support dual stream output, support image and text overlay, video rotation/cropping (vertical live streaming) and video recording, etc.

- H.264 encoding, support SRT transmission point-to-point and Caller/Listener/Rendezvous three transmission modes;
- Simultaneously support RTSP/RTMP/RTMPS/HLS/TS-UDP/Onvif etc. protocols and customize for NDI|HX/SIP;
- Dual stream output, the main code rate up to 1080P60, and the sub-stream supports 720P60 video encoding; Both the main stream and the sub stream can open 8 stream services simultaneously;
- Professional preprocessing such as video rotation, cropping, horizontal mirroring and color adjustment before encoding;
- User-defined text and picture overlay function, which can be superimposed to any position on the screen;
- Micro SD/TF card for local recording, and support NAS network storage;
- Support SDI/HDMI embedded audio encoding, and 3.5mm analog audio input encoding;
- USB expansion PTZ control;
- SDK/API provided for secondary development.

Parameters

Model	G1: SDI; G2: HDMI
Video input	G1:1*BNC SDI; G2: 1*HDMI
Analog video input	2*3.5mm
USB	2*USB 2.0 Type-A
Micro SD	1*Micro SD/TF Card storage interface
Network support	WIFI (2.4G/5G Hz)/USB expand 4G/Ethernet/Satellite
Video loop	1*BNC SDI; 1*HDMI
Video resolution	Up to 1080P60Hz: SDI model: 1080P23.98/24/25/29.97/30Hz; 1080P50/59.94/60Hz; 1080i50/59.94/60Hz; 720P23.98/24/25/29.97/30Hz; 720P50/59.94/60Hz HDMI model: 1080P23.98/24/25/29.97/30Hz; 1080P50/59.94/60Hz; 1080i50/59.94/60Hz; 720P/30/50/59.94/60Hz; below 1920x1200
Video encoding	H264/AVC, Motion-JPEG
Audio encoding	AAC/G.711
Encoding latency	<67ms
Media transmission protocols	SRT/RTMP/ RTMPS/HLS/TS over UDP/RTSP /Onvif, customize for SIP
Image and text overlay	Support custom text and picture overlay function, which can be superimposed to any position on the screen
Record storage	Micro SD/TF card local recording, and NAS network storage
Management	APP/ Web/IMS
Power supply/Consumption	DC 12V 1A / 4W
Size	125*89*28mm (4.92*3.50*1.10")
Weight	380g(13.4oz)
Operating temperature	-20~60°C