G SERIE Wireless Video Encoder
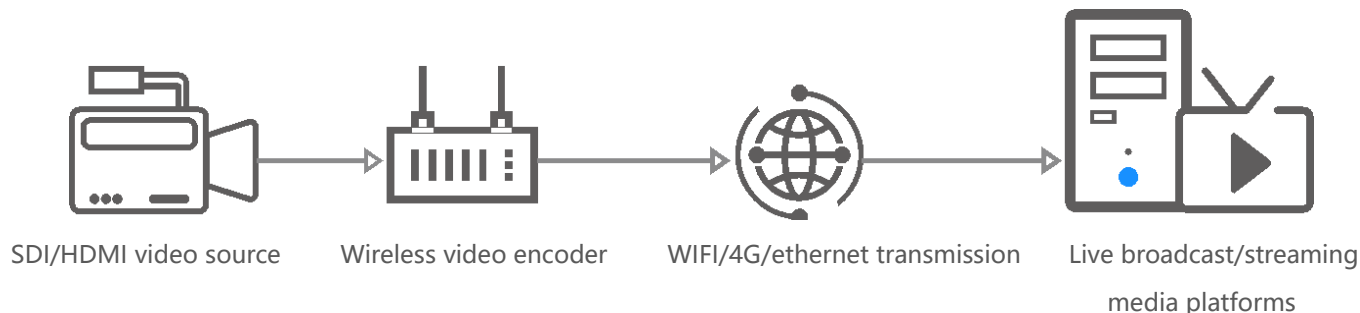
A cost-effective video encoding device

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.

•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.

| SDI/HDMI video source | Wireless video encoder | WIFI/4G/ethernet transmission | Live broadcast/streaming media platforms |

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 or 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℃