



KILOVIEW KV-G1-s Video Encoder User Guide

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Leading solution provider of IP-based video transmission

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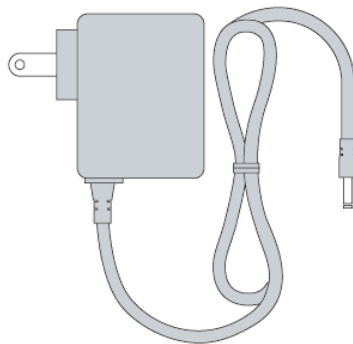
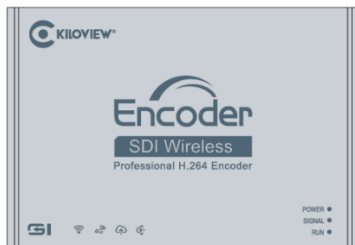
Quick Start Guide

SDI wireless video encoder



Before using this product, it is recommended that you read the guide carefully. To ensure your personal safety and avoid physical or electrical damage to the device, please strictly follow the instructions of this guide to install and use it under the guidance of professionals. Incorrect electrical connections or physical installation may cause permanent damage to the device and even threaten personal safety.

1 Packing List



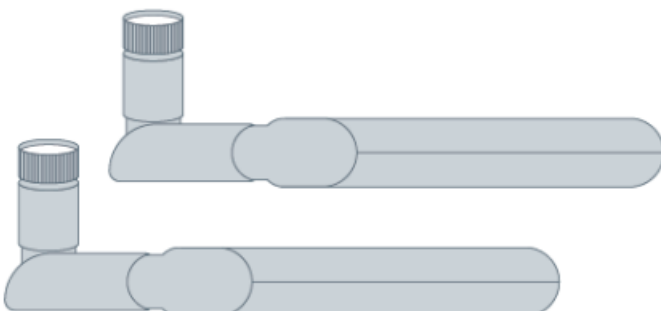
(1) Device ×1

(2) Power Supply×1



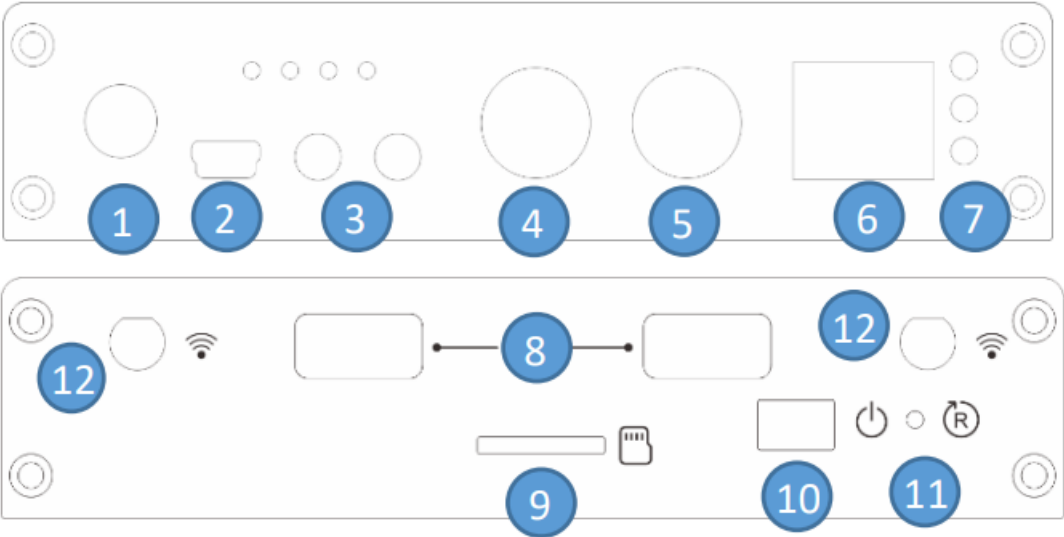
(3) Warranty Card×1

(4) Quick Start Guide×1






(5) WiFi Antennas

2 Device Interfaces

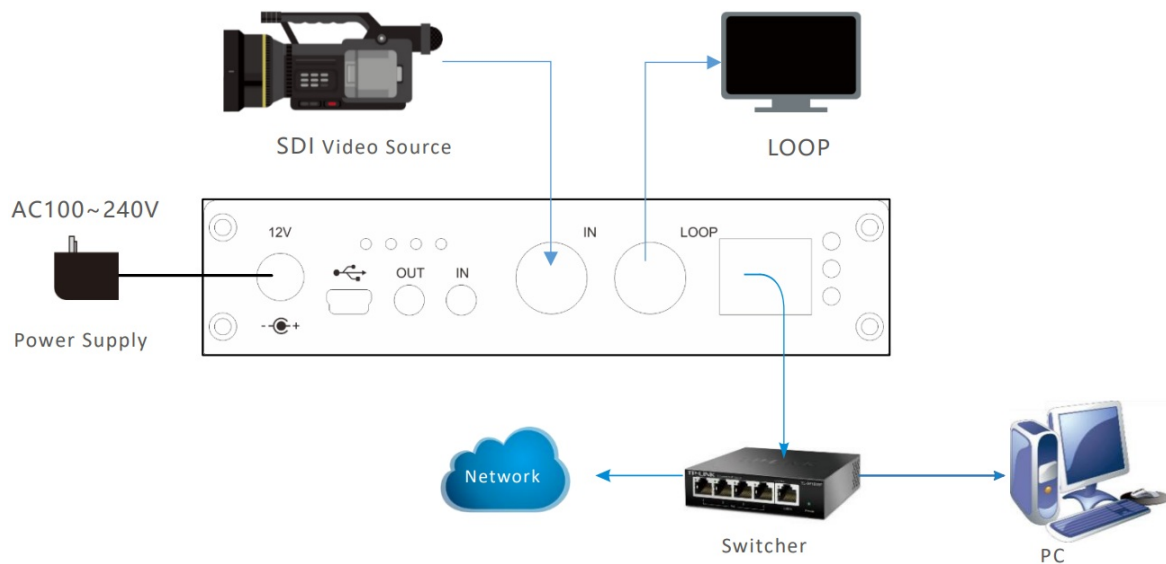


- (1) Power Port
- (2) Mini USB
- (3) 3.5mm line in/out
- (4) SDI Input
- (5) SDI Loop
- (6) 100M Ethernet port
- (7) Working Indicator
- (8) USB expansion port
- (9) Micro SD/TF slot
- (10) Power on/off
- (11) Reset
- (12) Antenna port

3 Device Indicators

	Name	Color	Status	Description
LED Indicators	Power 	Red	ON	Power connected
			OFF	Power off or failure
	Signal 	Green	ON	SDI signal connected
			OFF	SDI signal unconnected
	Run 	Green	Flashing	Working
			ON	Starting
			OFF	Device is abnormal or not started

4 Device Connection



Note

- Please use the equipped power adapter to power the device. Other unqualified power supplies may damage the device.
- Under encoding mode, please make sure the camera is connected to the SDI IN port.
- Loop is not a must, you can connect to the SDI OUT port when loop out is needed.
- If login with Ethernet, you can also configure the wireless transmission on Web UI. But Ethernet and WiFi cannot be used at the same time. If you want to use WiFi, please disconnect the Ethernet.

5 Device Discovery

5.1 Use the free tool—ONVIF Device Manager



Download the ONVIF Device Manager for free

Visit the website <https://sourceforge.net/projects/onvifdm/> to download and install ONVIF Device Manager. Please follow the software operation guidelines for the download method/installation.

ONVIF Device Manager is a network video app for managing network video, network video storage and network video analysis. Realize services such as discovery device, media, imaging, analysis and PTZ.

Step 1: Start ONVIF Device Manager, all devices in the network can be found in the left device list.

Step 2: Click the device in the device list, the device information will be displayed in the information bar.

ONVIF Device Manager v2.2.250

Name

Password

Log in

☒ Remember

Device list

<<

Name, location or address

Cancel

Chan_1

Firmware 4.7.2512

Address 192.168.3.244

Location default

Chan_1

ONVIF

Identification

Time settings

Maintenance

Network settings

User management

Certificates

Web page

Events

NVT

Refresh

000: MainStream_Profile

Live video

Video streaming

Imaging settings

PTZ control

Profiles

Identification

Name

Chan_1

Location

default

Manufacturer

KILOVIEW Electronics Co., Ltd.

Model

E1

Hardware

urn:uuid:95254bde-5e68-4fd3-a9e5-aaa202107211

Firmware

4.7.2512

Device ID

202107211

IP address

192.168.3.244

MAC address

0A-82-02-10-72-11

ONVIF version

2.0

URI:

http://192.168.3.244:8080/onvif/device_service

Apply

Cancel



Introduction

- **Access method:** Open a web browser and enter in the address bar: <http://device IP address/> (the device IP address is the IP address of the G1-s displayed in the device list).
- The working network that the device is connected needs to support automatic acquisition of IP (DHCP). After the device automatically acquires the IP, it can be discovered by the software through Onvif.

5.2 Solution for the device cannot be found.

If the device can't be found in the network with the above two methods due to the network environment, please kindly try to access the device by its default IP address 192.168.1.168. That is to say, enter <http://192.168.1.168/> in the browser to enter the Web UI.



Website for more information on G1-s video encoder

<https://www.kiloview.com/en/support/docs/G1-s/>

6 Login to the device WEB page

Enter to the Web page of the device, both the username and password are admin by default.



Note

- To ensure information security, it is recommended to change your password immediately after logging in for the first time!
 - Due to the browser compatibility issues, it is recommended to use Chrome, Firefox or Edge.
-

7 Device Working

7.1 Video source checking

Enter to the device web page, click “Encoding and Stream” – “Encoding and Stream Settings” to check the Motion JPEG stream. When there is no video signal input, the Motion JPEG stream displays a blue image. If the video input, there will be a real-time video displayed and changes every three seconds.



Note

If the video source connected, there is still a blue screen or video displayed abnormality. Please check the input video source, the video resolution format or cables, etc.

7.2 Audio Source Selection



Introduction

- Audio input supports SDI embedded audio or 3.5mm analog audio input (Line in). It doesn't support Mic in.
- SDI embedded audio supports 4 groups from 8 pairs of audio channel input, encoding output only supports a pair of left and right channels output.
- The audio input is with the SDI embedded audio by default. If input by 3.5mm analog audio input, you need to enter to the WEB page and click "Video & Audio Adjustment"- "Audio Source and Adjustment" and select "LINE IN" as the audio source.

7.3 Encoding streams checking

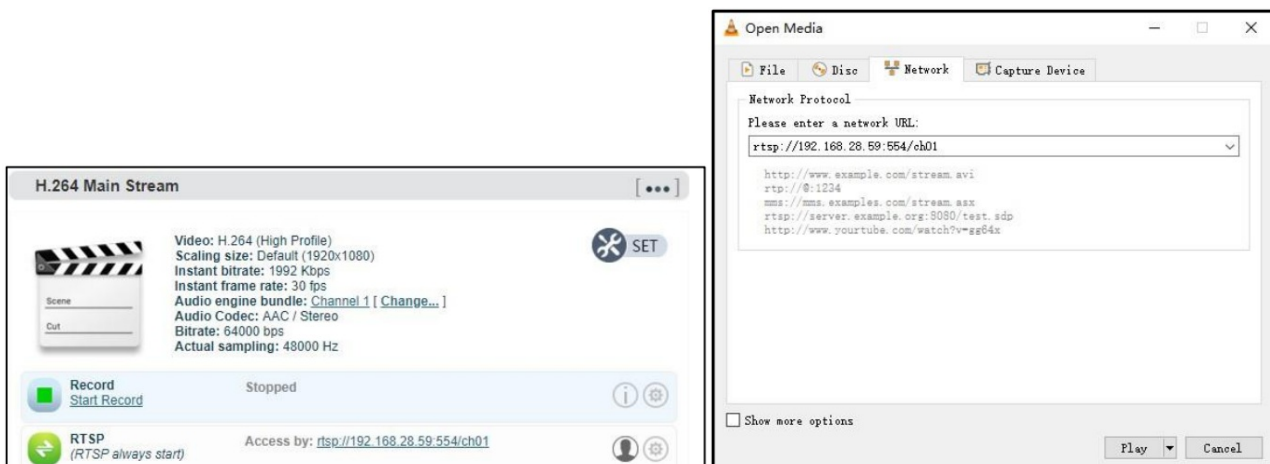


Download the VLC

Download and install the VLC through the official address <https://www.videolan.org/vlc/>. Please follow the official guidelines of VLC for the download /installation.

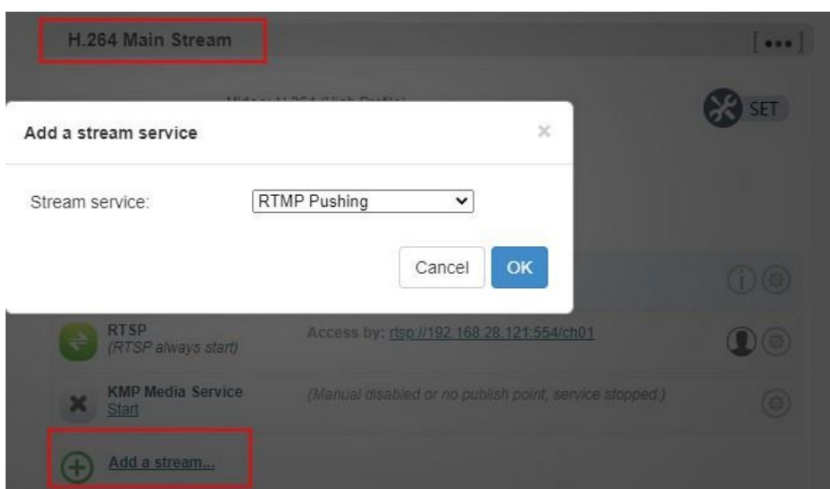
VLC is a free, open source, cross-platform multimedia player and framework that can play most multimedia files, as well as DVD, CD, VCD and various streaming protocols.

1. Click the “Encoding and Stream” – “Encoding and Stream Settings”;
2. In the H.264 stream, copy the URL address displayed on the right side of RTSP;
3. Open “Media” —“Network Streaming” of VLC;
4. Enter the URL address of RTSP in the network, and click the [Play] button in the lower right corner;
5. VLC will play the input video of device.



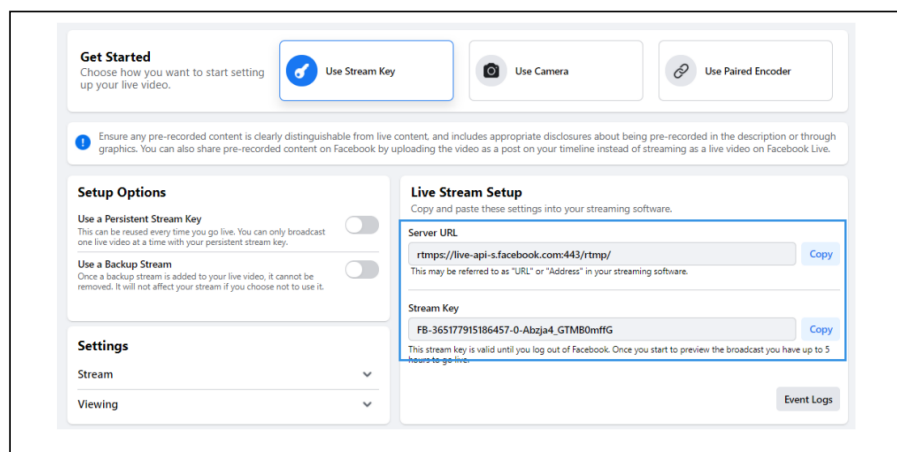
7.4 RTMP live streaming

First, add an RTMP push point on the device side. Click “Encoding and Stream” — “Encoding and Stream Settings”, and then click “Add a Streaming Service” under the H.264 main stream, and select “RTMP Push” in the pop-up window “. After confirmed, a push pint is generated.



Take FACEBOOK as an example, first obtain the RTMP push URL on the live platform. Login to FACEBOOK, click “Live Video” to enter the live room, and click “Use Stream Key” for live broadcast. Fill in the URL of live broadcast and Stream Key into the URL address of the RTMP push point, and start the streaming service. You can see the

video in the live broadcast room.



The screenshot shows the Facebook Live Stream Setup interface. At the top, there are three buttons: "Use Stream Key" (selected), "Use Camera", and "Use Paired Encoder". Below these, a note states: "Ensure any pre-recorded content is clearly distinguishable from live content, and includes appropriate disclosures about being pre-recorded in the description or through graphics. You can also share pre-recorded content on Facebook by uploading the video as a post on your timeline instead of streaming as a live video on Facebook Live." The interface is divided into two main sections: "Setup Options" and "Live Stream Setup".

Setup Options:

- Use a Persistent Stream Key:** This can be reused every time you go live. You can only broadcast one live video at a time with your persistent stream key. (Toggle is off)
- Use a Backup Stream:** Once a backup stream is added to your live video, it cannot be removed. It will not affect your stream if you choose not to use it. (Toggle is off)

Settings:

- Stream (dropdown menu)
- Viewing (dropdown menu)

Live Stream Setup:

Copy and paste these settings into your streaming software.

Server URL: `rtmps://live-api-s.facebook.com:443/rtmp/` (Copy button)

This may be referred to as "URL" or "Address" in your streaming software.

Stream Key: `FB-365177915186457-0-Abzja4_GTMB0nffG` (Copy button)

This stream key is valid until you log out of Facebook. Once you start to preview the broadcast you have up to 5 minutes to go live.

Event Logs



Introduction

- If the platform RTMP streaming address and live broadcast code are separate, please use the symbol "/" to add the live broadcast code after the RTMP address. The format is: rtmp address/live code.
- Please make sure the device is connected to the network, and configure the correct IP address, DNS and other parameters.



Website for more information about the G1-s streaming service:

<https://www.kiloview.com/en/support/docs/G1-s/>

8 Firmware Upgrading

8.1 Download upgrade firmware



Kiloview will continue to provide the firmware of updating functions and fixing bug for G1-s, please visit:
<https://www.kiloview.com/en/support/download/> Select “video encoders” > “G1-s”, find and download the latest firmware.

8.2 Upgrade device firmware

Login to the web page of G1-s, click “Settings”– “Firmware Upgrade” to check whether the latest firmware version downloaded is higher than your current version. If yes, select the downloaded firmware and click “Firmware Upgrade”.

After uploaded the firmware successfully, it needs to reboot the device. After clicking “ok”, the device will restart, please be patient.

Firmware/Software Update



Current Firmware Version: 2.5.0
Current Software Version: 4.7.2512
Device Serial No: 210111294

Please check the device type and firmware/software version are correct before upgrading. To upload the firmware, click the Choose File button, select the firmware file and click Upgrade.
NOTE: To finish the process, the device will reboot once the firmware has been uploaded.

 Upload Firmware: No file chosen



Note

- Please not power off during the upgrade process, otherwise the device couldn't work.
 - Generally, it will take 3-5 minutes to upgrade the device. If it's still not completed after 5 minutes, please try refreshing webpage, if you still can't access it, please try to contact technical support.
-

9 Restore factory settings

If the device cannot work normally after modified the parameters or forgot internet IP configuration and couldn't search and find the device, please restore factory settings.

Two methods for restoring factory settings:

- 1) If you can login to web page, then via the WEB page, click “Settings–System settings–Restore factory settings”.
 - 2) If you can't login to web page, press the RESET button for 5 seconds in the bottom of device.
-



Note: After restoring factory setting, below parameters will be turned to default value:

- Login username and password will be “admin”;
- IP address will be restored as 192.168.1.168, subnet mask will be 255.255.255.0;
- All encoding parameters of video and audio will be restored to default value;

10 Others



G series encoders support multi-party voice intercom, for more information and get the KIS intercom server, please check:

<https://www.kiloview.com/cn/kiloview-intercom-server>

To prolong the device life please unplug the power and keep it properly if you do not use it for a long time.

For more questions, please contact us via

<https://www.kiloview.com/en/support>




Please scan with browser.

KILOVIEW Electronics CO., LTD.

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Documents / Resources

	<p>KILOVIEW KV-G1-s Video Encoder [pdf] User Guide KV-G1-s, Video Encoder, KV-G1-s Video Encoder, Encoder</p>
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References

- [Kiloview2023 - Kiloview](#)
- [ONVIF Device Manager download | SourceForge.net](#)
- [_____](#)
- [Support and Help Center – Kiloview](#)
- [G1-s Wireless Encoder – Kiloview](#)
- [Download Center – Kiloview](#)
- [🍷 Official download of VLC media player, the best Open Source player - VideoLAN](#)