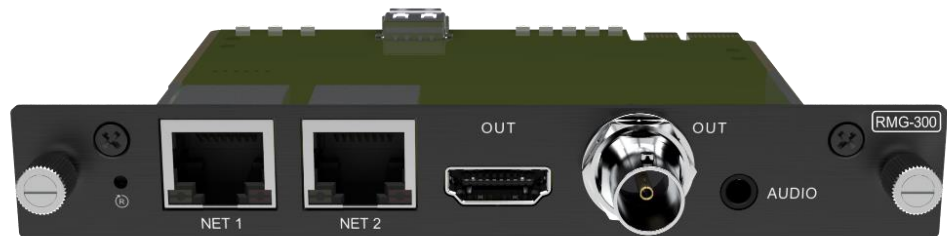


Quick Start Guide

RMG-300 Media Gateway

Easily Bridges Most IP Protoco

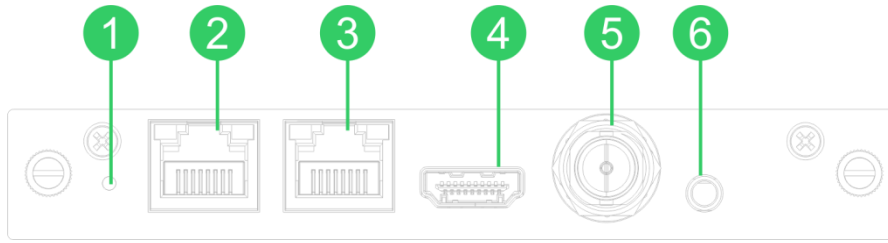


Contents

- Device interfaces, installation and functions
- Device connection, login and applications
- Device upgrade and restore the factory settings

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. Device Interfaces

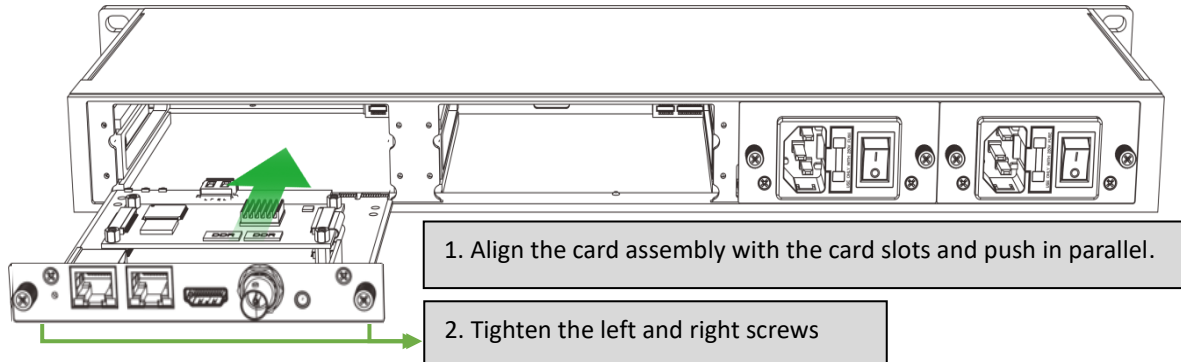


- (1) Device reset button, press and hold for 5s to restore the device to factory settings.
- (2) 100M/1000M Ethernet port
- (3) 100M/1000M Ethernet port
- (4) HDMI output
- (5) SDI output
- (6) 3.5mm line in/o

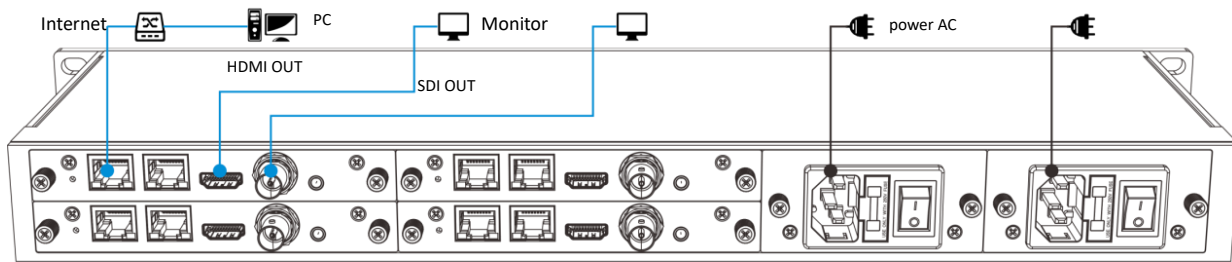
2. Device Installation

2.1 Card Installation

Align the card assembly with the card slots and push in parallel, then tighten the double-sided screws.



2.2 Device Connection



⚠ Note: Please use the standard power adapter to power the device. Other unqualified power supplies may damage the device.

3. Login to the device webpage

Login to the device webpage via the default IP address 192.168.1.168. That is, enter <http://192.168.1.168/> in the browser to access the web UI. The username and the password are **admin** by default.

The screenshot shows the login interface for the KiloView RMG300 device. The page features the KiloView logo at the top, followed by the device model name "RMG300". Below this, there are three input fields: "Username", "Password", and a language selection dropdown menu currently set to "English". A prominent blue "Login" button is located at the bottom of the form.

If using the device for the first time, please configure the device IP address based on your working network.

The screenshot displays the configuration interface for two networks. Network1 is connected and shows two address configurations: Address1 with IP 192.168.28.80 and Address2 with IP 192.168.1.168. Network2 is disconnected and shows Address1 with IP 0.0.0.0 and Address2 with IP 192.168.2.168. Below the network settings are sections for Host Name and Routing Strategy, both with right-pointing arrows.

Network	Status	Address	IP	Subnet	MAC	DNS	Action		
Network1	Connected	Address1	IP:	192.168.28.80	/ 255.255.255.0	4A:CC:98:71:B4:3D	8.8.8.8	Set	
			Gateway:	192.168.28.254					
		Address2	IP:	192.168.1.168	/ 255.255.255.0				Set
			Gateway:						
Network2	Disconnected	Address1	IP:	0.0.0.0	/ 255.255.255.255	2E:82:76:8C:90:A6	8.8.8.8	Set	
			Gateway:						
		Address2	IP:	192.168.2.168	/ 255.255.255.0				Set
			Gateway:						

Host Name >

Routing Strategy >



Introduction

- To login with the default address, make sure that the computer is configured under the same network segment (192.168.1.*, * refers to numbers between 1-255 except 168)!
- After change the device IP, please restore the computer network to the working network IP address.
- If the RMG-300 device is connected to the network by Ethernet port 2, the default IP address is: 192.168.2.168!
- To ensure information security, it is recommended to change your password immediately after your first login.
- Due to the browser compatibility issues, it is recommended to use Chrome, Firefox or Edge.



For more information about the configurations, please refer to:

<https://www.kiloview.com/en/support/docs/RMG-300/>

4. Decoding and Output

4.1 Add video source

In the lower left of the "Media", click "Add", and then select the "Source Type" and configure the parameters in the pop-up dialog box, and click "OK" to add the video source to the video list.

Add Source ✕

*** Name**

Main Preview

Source Type RTSP RTMP RTMPS RTP UDP HTTP HTTPS SRT NDI

RTMP Server

*** URL**

Transmission Mode TCP ▼

Username

Password

Play Cache Normal latency buffer (~200ms) ▼

Response Speed Normal ▼

Audio de-sync compensation - + (ms)

OK Cancel



Introduction

- The IP address of video source can be tested with a player such as VLC.
- For video sources from the network, the playback buffer needs to be configured with a high buffer time until the video decoding output is smooth.

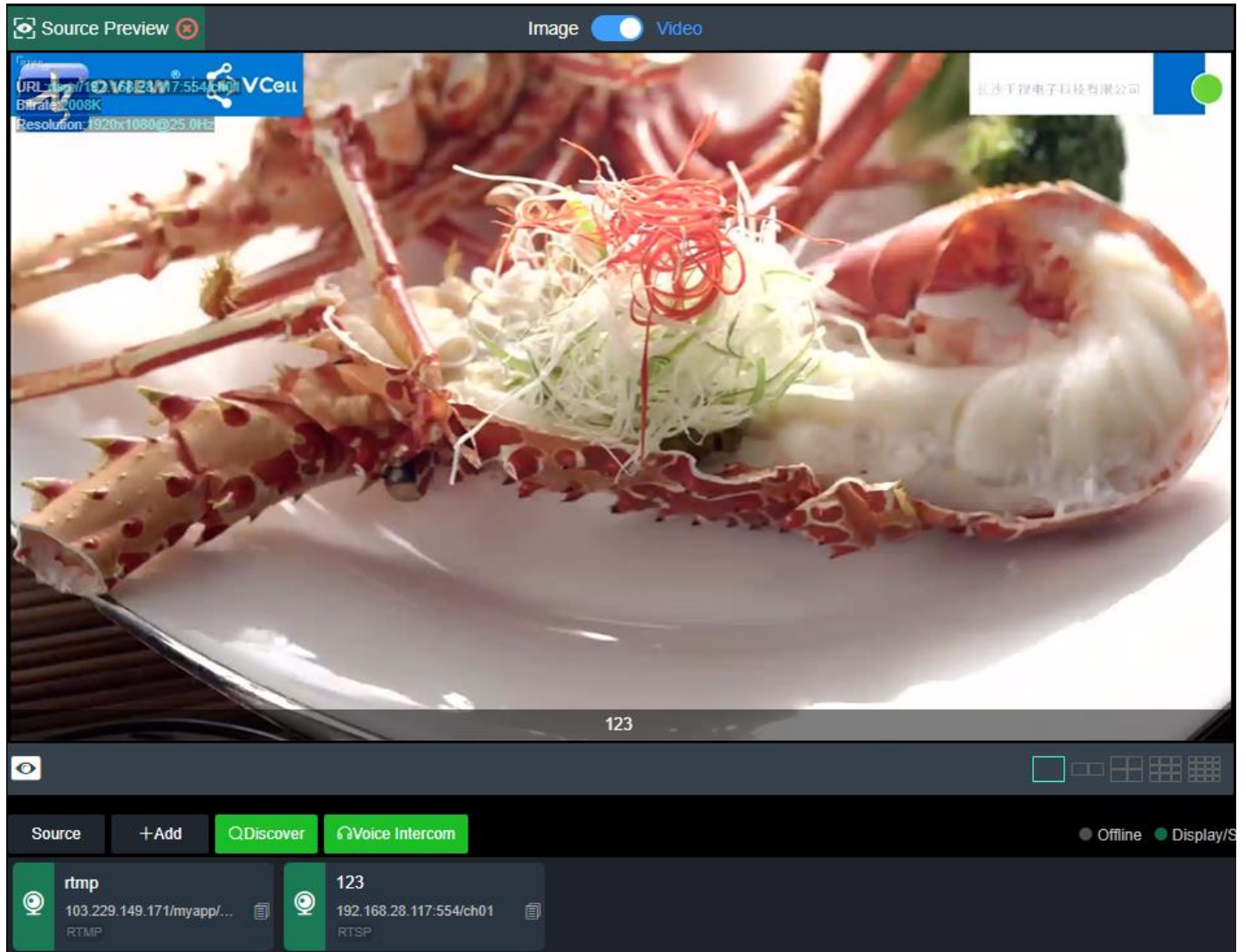


For more information about how to add the video source to RMG-300, please refer to:
<https://www.kiloview.com/en/support/docs/RMG-300/>

4.2 Preview

The added sources will be displayed in the “Video Source”, drag the source to the upper “Source Preview”

window to preview the source images and to configure the output parameters.

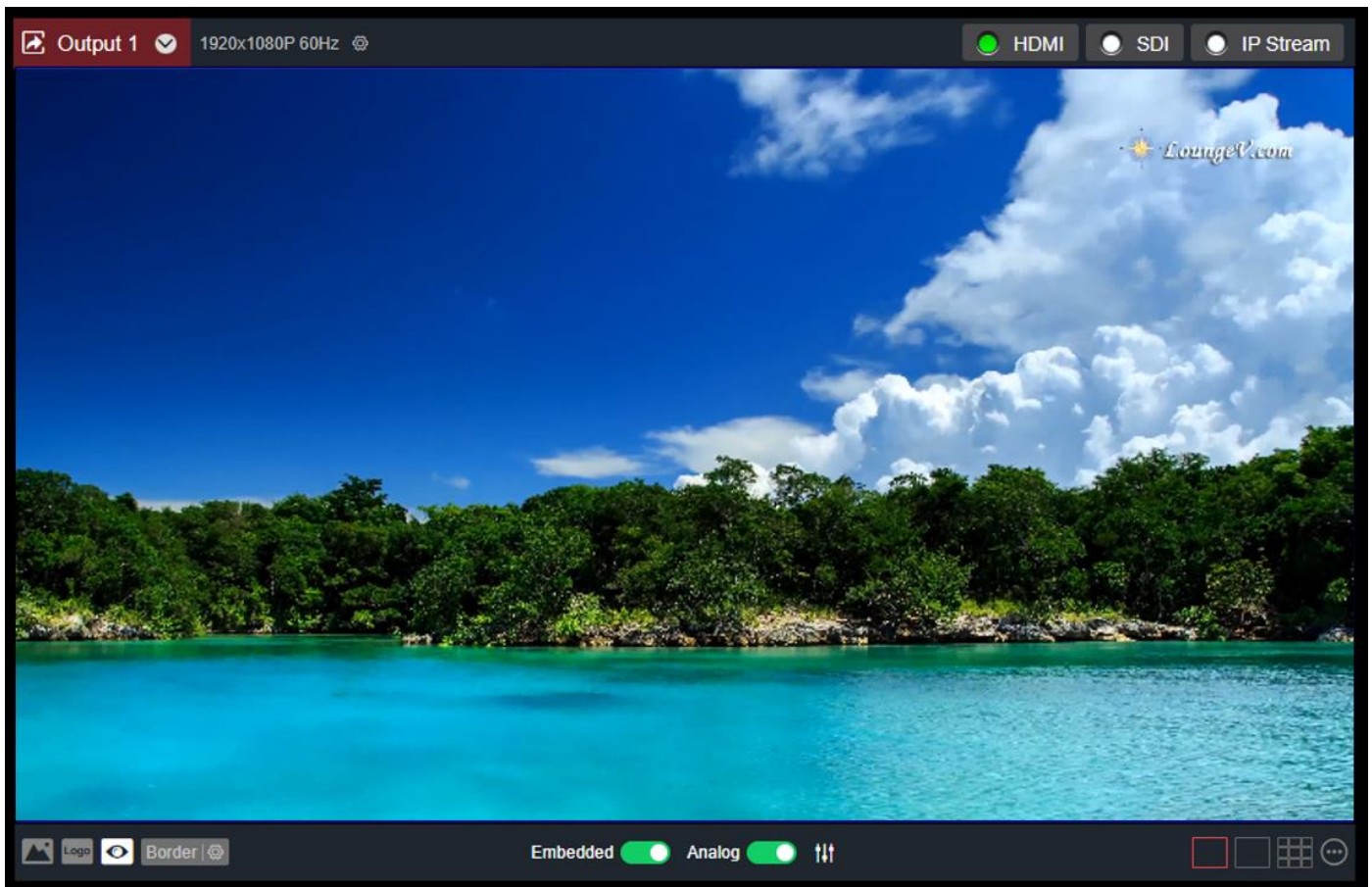


Introduction

- It is recommended to use the latest version of Chrome and Edge for preview function.
- Preview in browser does not support video sources with **B-frame** and **H.265**.
- To preview, please use the service network IP address to login to the device.
- The "Source Preview" window is under "Image" mode by default, and the image refreshes every 3 seconds; if the CPU performance of the computer is well, you can click and switch to "Video" mode, and there will be smooth video.

4.3 Output

There are two output windows on the RMG-300 webpage. You can select SDI or HDMI to decode and output the same or different content in the upper right corner of the window. Drag the video source into the output window, that is, output with the selected SDI or HDMI interface.



Introduction

- The output resolution should be the resolution and frame rate that the receiving monitor can support.
- The audio is turned off by default, and it can be turned on by click the red speaker in the lower left corner of the output window.
- Multi-screen output needs to be configured by adding a layout, and supports up to 9 grids output



For more info about RMG-300 output layout configurations, please refer to:



<https://www.kiloview.com/en/support/docs/RMG-300/>

5. Stream service



Login to the MG300 webpage, click “Stream Service”- “Add Publishing Points” to add a publishing point, and select the video source that needs to be forwarded.

1. Click “Source” and select the video source in the source list on the right, then the border of the selected video source will turn to red.

+ Add Publishing Points

zhibo1  

Status Source Service Reset

test  


Status Source Service Reset

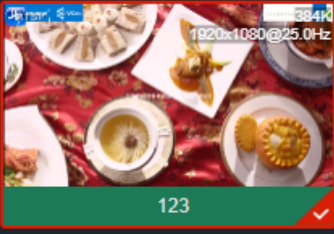
Main Stream Sub Stream

RTMP 1884K 1280x720@25.0Hz

The video is not previewed, please switch to the media page to preview

rtmp


123 




2. Click “Service”- “Add Stream Service”, and then choose the “Service Type”.

Add Stream Service

* Name

Service Type **RTMP** 

Push Service **Open** 

* Push Address

Username

Password

OK **Cancel**



For more information about the RMG-300 streaming service:

<https://www.kiloview.com/en/support/docs/RMG-300/>

6. Firmware Upgrading

6.1 Download upgrade firmware



Kiloview will continue to provide the firmware of updating functions and fixing bug for RMG-300, please refer to:

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

Select "video decoders" > "RMG-300", find and download the latest firmware

6.2 Upgrade device firmware

Login to the web page of RMG-300, 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 Update

Current firmware version: 6.0.0
Current software version: 4.6.2508

Note: After a firmware update, the system will automatically restart to complete the update!

[Select a file](#) [Upgrade](#)

You can only update bin files

File not selected



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.

7. 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 user name 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.
-

8. Others

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.

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