

Quick Start Guide

MG300 v2 Media Gateway

Easily Bridges Most IP Protocols

(2022-11 version)

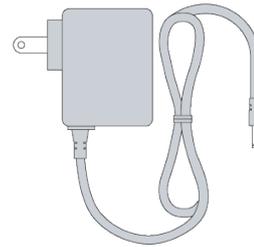


Contents

- Packing List
- Device interfaces and functions
- Device connection, login and use guide
- Device upgrade and restore to 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 Packing List

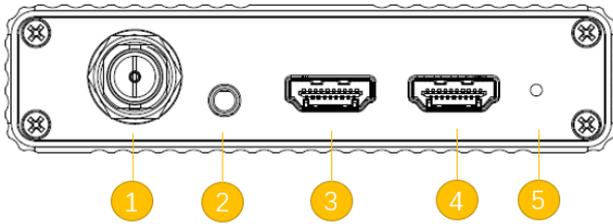


- (1) MG300 v2 ×1
- (2) Power Supply ×1

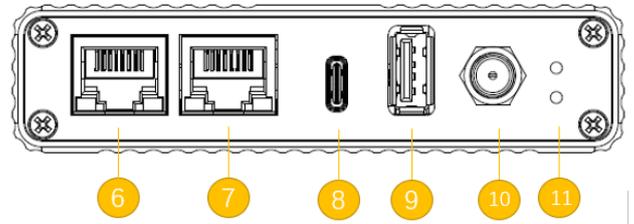


- (3) Warranty Card ×1
- (4) Quick Start Guide ×1

2 Device Interfaces



- (1) SDI output
- (2) LINE OUT
- (3) HDMI output 1
- (4) HDMI output 2
- (5) Reset
- (6) 1000M Ethernet Port 1

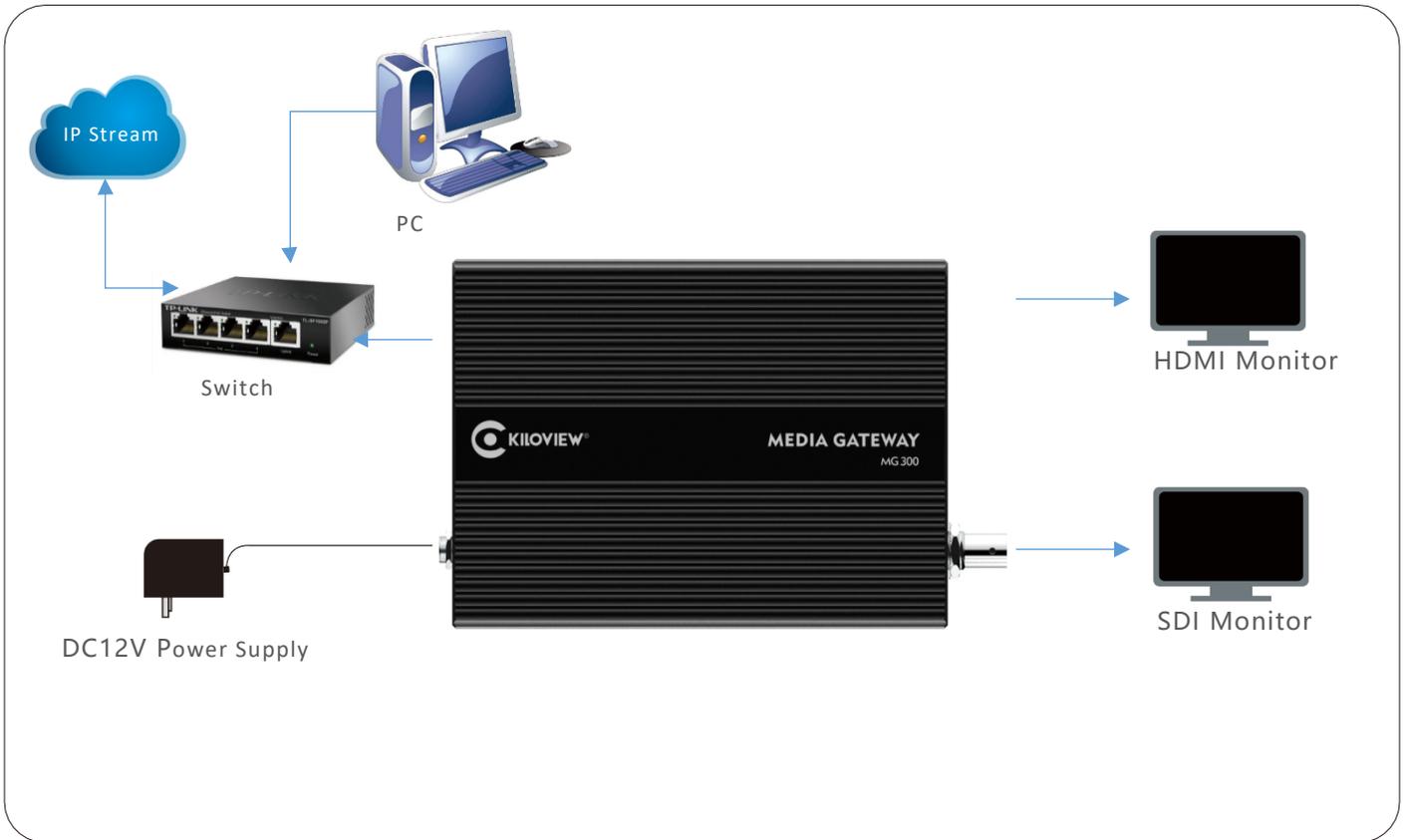


- (7) 1000M Ethernet Port 2
- (8) Type-C Expansion Port
- (9) USB Expansion Port
- (10) Power Port
- (11) Working Indicator

3 LED Indicators

	Name	Color	Status	Description
LED Indicators	 Power	Red	ON	Power connected
			OFF	Power off or failure
	 Run	Green	Flashing	Working
			Always ON/OFF	Device is abnormal or not started

4 Application



Note

- Please use the equipped power adapter to power the device. Other unqualified power supplies may damage the device.
- Connect your Ethernet cable to NET 1 port.
- MG300 v2 supports up to 9-channel decoding, HDMI and SDI output same or different contents.

5 Login to the device web page

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 page. The user name and password are admin by default.



When using the device for the first time, please configure the IP address of the device with your network.

Network1 (Connected)
Ping

Address1

IP: 192.168.28.67 / 255.255.255.0 MAC: 66:C9:7E:19:A9:48

Gateway: 192.168.28.254 DNS: 223.5.5.5

Set

Address2

IP: 192.168.1.168 / 255.255.255.0

Gateway:

Set

Network2 (Disconnected)

Address1

IP: 136.25.23.24 / 255.255.255.255 MAC: 56:48:6E:C6:6E:FB

Gateway: 136.25.23.248 DNS: 223.5.5.5

Set

Address2

IP: 192.168.2.168 / 255.255.255.0

Gateway:

Set

Host Name
>

Routing Strategy
>



Note

- 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 changing the device IP address, please restore your computer network to the working network IP address.
- If MG300 v2 is connected to the network by Ethernet port 2, the default IP address is: 192.168.2.168!

The username and the 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 or Edge.

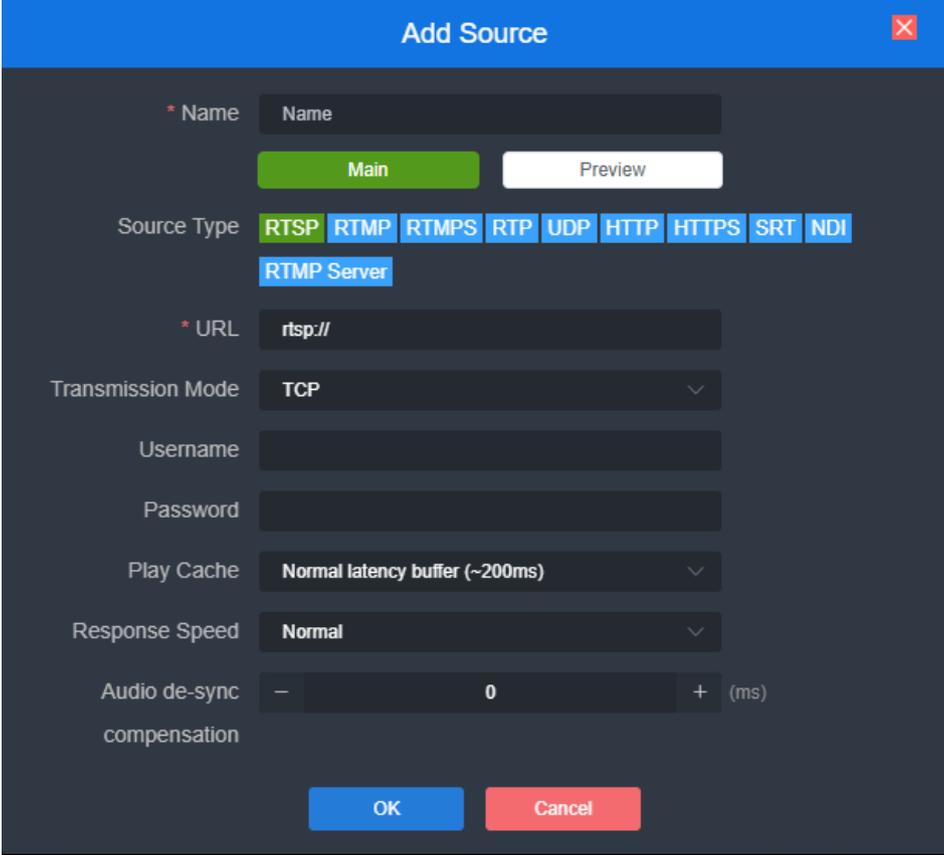


For more information about the MG300 v2 configurations, please refer to:
<https://www.kiloview.com/en/support/docs/mg300-v2/>

6 Decoding and output

6.1 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 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



Note

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



For more information about how to add the video source, please refer to:

<https://www.kiloview.com/en/support/docs/mg300-v2/>

6.2 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.

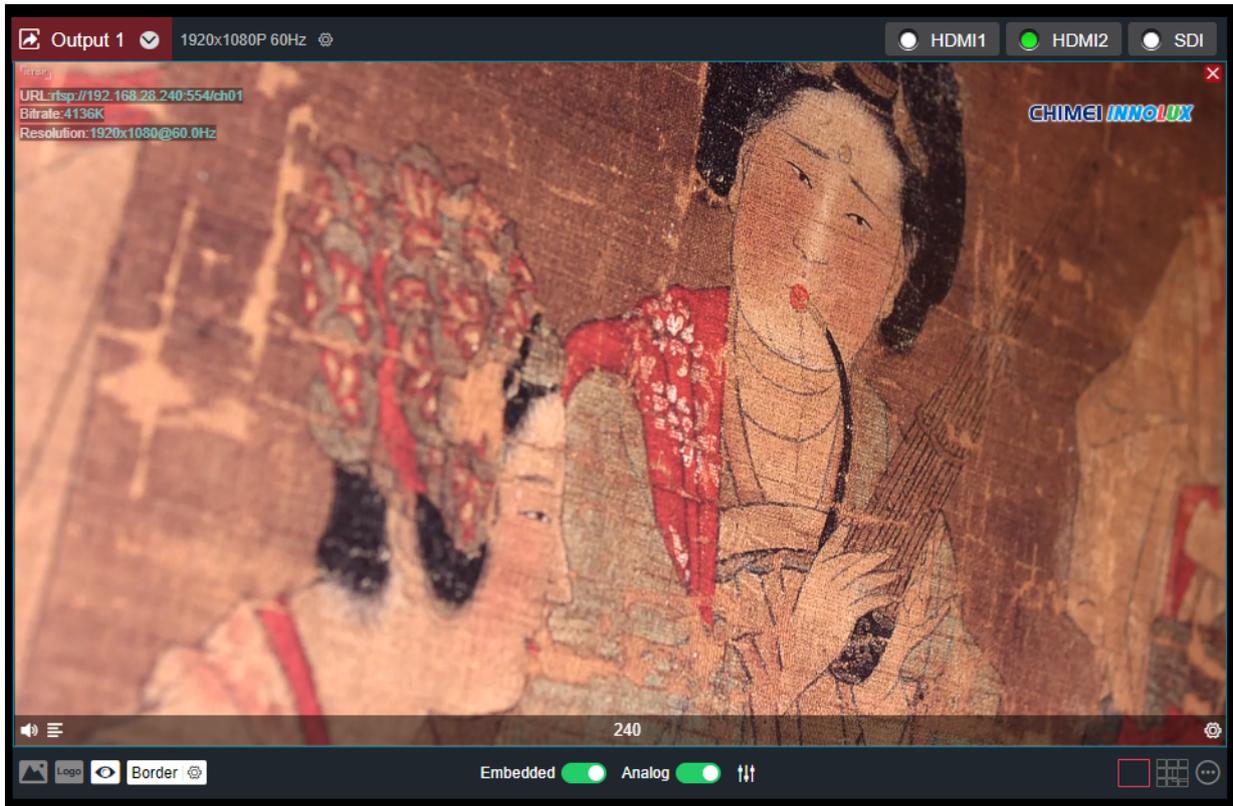


Note

- 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 your computer is well, you can click and switch to "Video" mode, and there will be smooth video.

6.3 Output

There are two output windows on the webpage of MG300 v2. 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.



Note

- 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.



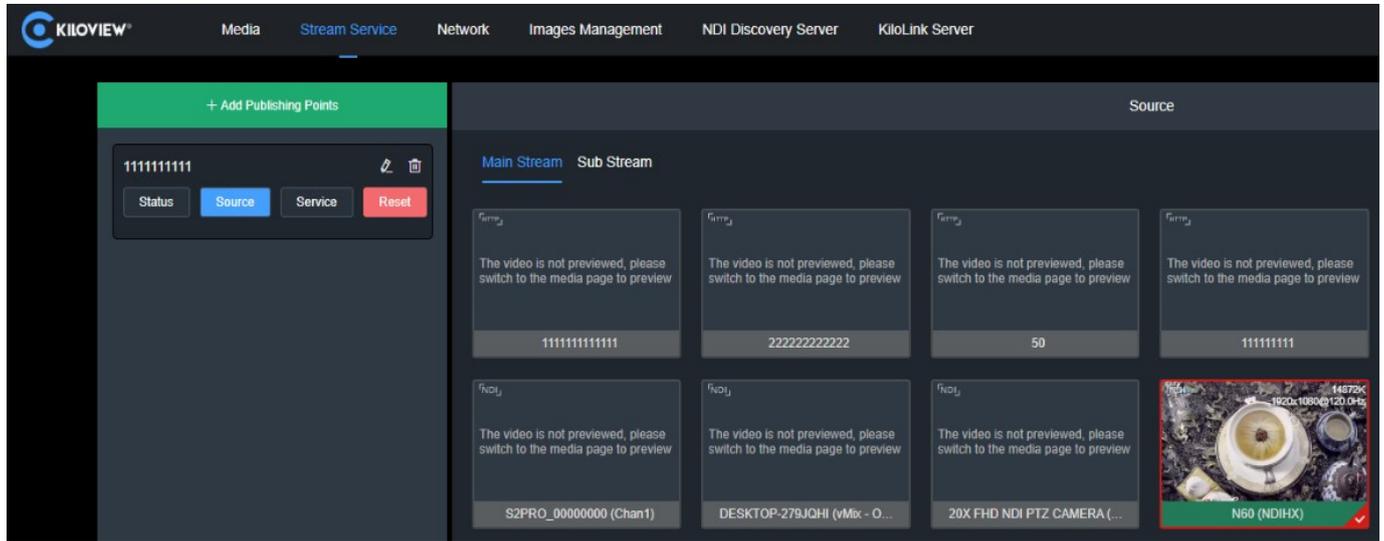
For more info about MG300 v2 output layout configurations, please refer to:

<https://www.kiloview.com/en/support/docs/mg300-v2/>

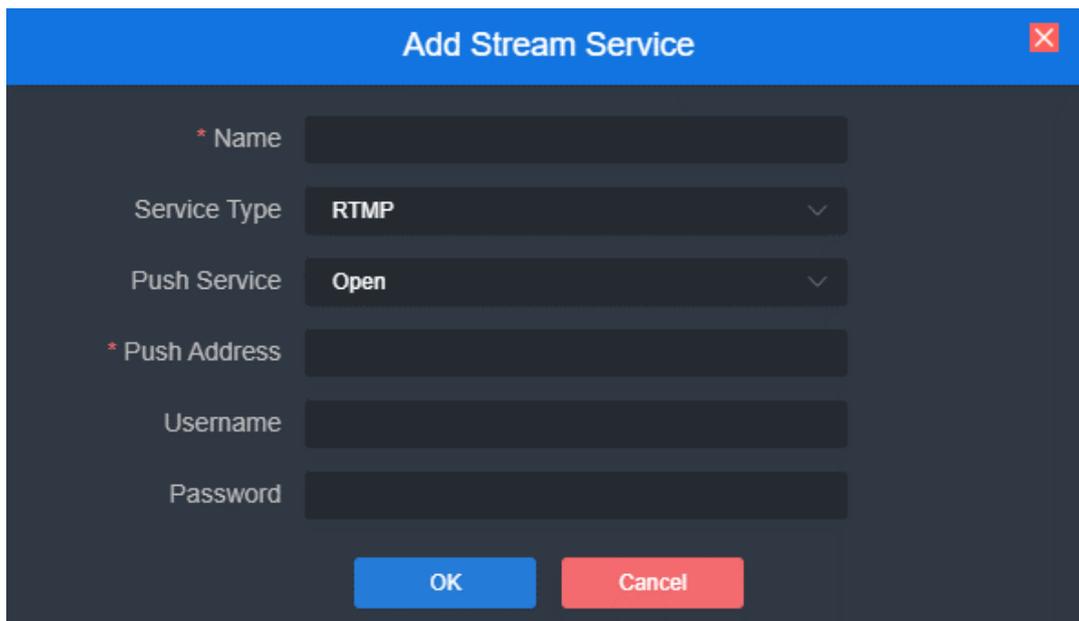
7 Streaming Service

Login to the MG300 v2 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.



2) Click “Service”> “Add Stream Service”, and then choose “Service Type”.





For more information about the MG300 v2 streaming service, please refer to:
<https://www.kiloview.com/en/support/docs/mg300-v2/>

8 Firmware Upgrading

8.1 Download firmware



Kiloview will provide the firmware of updating functions and fixed bugs, please refer to:

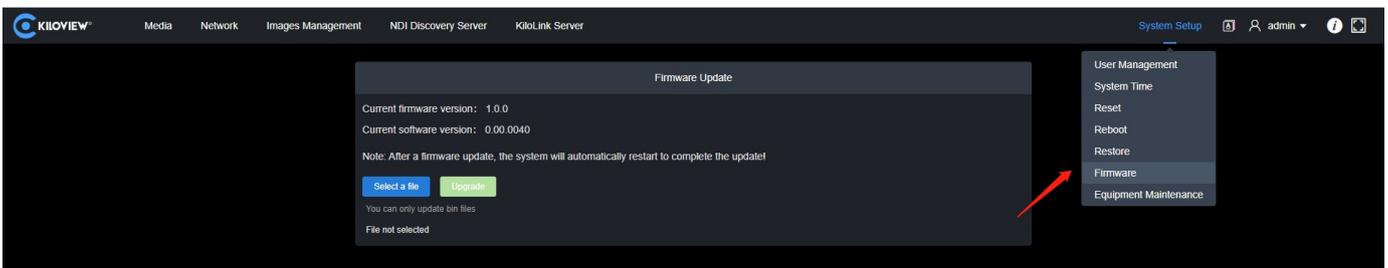
<https://www.kiloview.com/en/support/download/>

Select "video decoders" > "MG300 v2", find and download the latest firmware

8.2 Upgrade firmware

Login to the web page of MG300 v2, click "Settings">"Firmware Upgrade" to check if there is any latest firmware available to download. 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.



Note

- MG300 v2 and MG300 and RMG-300 v2 are different versions, and their upgrade firmware are different. Please download the correct firmware of MG300 v2 at Kiloview website before upgrading.

- Please not power off during the upgrade process, otherwise the device couldn't work.
 - Generally, this process can 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 to 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, 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 to factory setting, below parameters will be turned to default value:

- Login username and password will be "admin".
 - IP address will be restored to 192.168.1.168, subnet mask will be 255.255.255.0.
 - All decoding parameters of video and audio will be restored to default value.
-

10 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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