MSP 325N

4K Ultra HD Video Encoder/Decoder

User Manual

RGBlink®

Content

Thank you for choosing our product!
This User Manual is designed to show you how to use this converter quickly and make use of all the features. Please read all directions and instructions carefully before using this product.

Declarations

FCC/Warranty

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be responsible for correcting any interference.

Guarantee and Compensation

RGBlink provides a guarantee relating to perfect manufacturing as part of the legally stipulated terms of guarantee. On receipt, the purchaser must immediately inspect all delivered goods for damage incurred during transport.

The period of guarantee begins on the date of transfer of risks, in the case of special systems and software on the date of commissioning, at latest 30 days after the transfer of risks. In the event of justified notice of compliant, RGBlink can repair the fault or provide a replacement at its own discretion within an appropriate period. If this measure proves to be impossible or unsuccessful, the purchaser can demand a reduction in the purchase price or cancellation of the contract.
If the purchaser or a third party carries out modifications or repairs on goods delivered by RGBlink, or if the goods are handled incorrectly, in particular if the systems are commissioned operated incorrectly or if, after the transfer of risks, the goods are subject to influences not agreed upon in the contract, all guarantee claims of the purchaser will be rendered invalid. Not included in the guarantee coverage are system failures which are attributed to programs or special electronic circuitry provided by the purchaser, e.g. interfaces. Normal wear as well as normal maintenance are not subject to the guarantee provided by RGBlink either.
The environmental conditions as well as the servicing and maintenance regulations specified in this manual must be complied with by the customer.

Operators Safety Summary

The general safety information in this summary is for operating personnel.

Do Not Remove Covers or Panels

There are no user-serviceable parts within the unit. To avoid personal injury, do not remove the

top cover. Do not operate the unit without the cover installed.

Use the Proper Power Cord

Use only the standard power cord for your product.

Do Not Operate in Explosive Atmospheres

To avoid explosion, do not operate this product in an explosive atmosphere.

Installation Safety Summary

Safety Precautions

For all MSP 325N installation procedures, please observe the following important safety and handling rules to avoid damage to yourself and the equipment.

Unpacking and Inspection

Before opening MSP 325N shipping box, inspect it for damage. If you find any damage, notify the shipping carrier immediately for all claims adjustments. As you open the box, compare its contents against the packing slip. If you find any shortages, contact your sales representative. Once you have removed all the components from their packaging and checked that all the listed components are present, visually inspect the system to ensure there was no damage during shipping. If there is damage, notify the shipping carrier immediately for all claims adjustments.

Site Preparation

The environment in which you install your MSP 325N should be clean, properly lit, free from static, and have adequate power, ventilation, and space for all components.

Chapter 1 Your Product

1.1 In the Box

1.2 Product Overview

The MSP 325N is a high-performance, compact streaming processor that combines exceptional portability with powerful features. Its sleek, small design makes it easy to carry and versatile enough for various scenarios. Supporting H.265/H.264 high-efficiency encoding to ensure excellent video quality while minimizing bandwidth usage and decoding capability (Multi-stream decoding: 1×2160p60 + 2×2160p30 + 4×1080p60).

The MSP 325N handles input resolutions up to 4K@60Hz, making it ideal for high-resolution video processing. It is compatible with a range of streaming protocols including HTTP, SRT, RTMP, RTSP, and NDI, catering to diverse streaming needs.

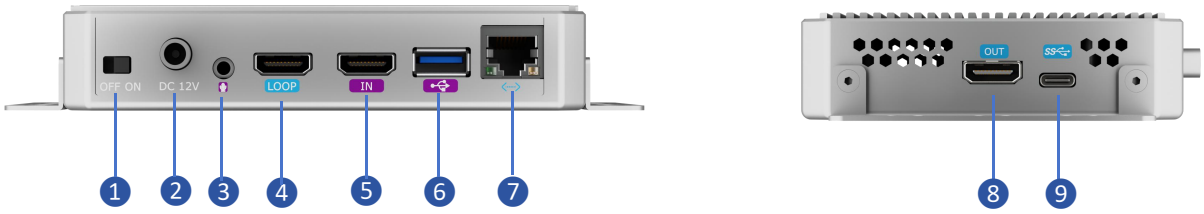
Additionally, the MSP 325N also features USB connectivity for video recording, allowing users to replay content anytime, offering enhanced flexibility. With PoE power support and TAO cloud integration control, installation and management are simplified. The low-latency transmission makes the MSP 325N an ideal choice for live streaming, conference, and other video IP transmission applications.

1.2.1 Key Features

- Small and compact, easy to carry
- H.265/H.264 high-performance encoding and decoding capability
- Input resolution up to 4K@60Hz
- HTTP/SRT/RTMP/RTSP/NDI protocols supported
- Multi-stream decoding capability
- Feature with one USB interface for recording

- PoE & DC 12V power supply
- TAO Cloud integrated control
- Low latency transmission

1.2.2 Interface Panels



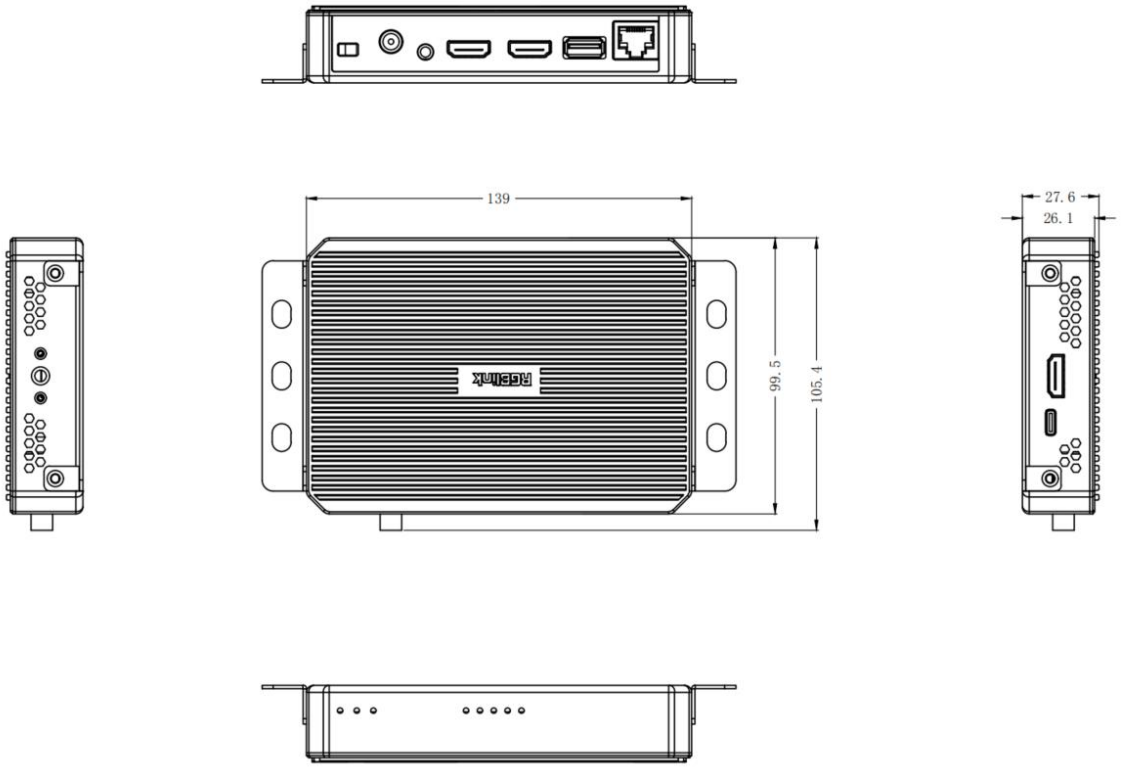
❶	Power Switch	After connecting power, push left to turn off the device (OFF), push right to turn on the device (ON)
❷	Power Interface	Connect the DC power plug. Power specification is 12V/2A or above
❸	Line in	3.5mm analog audio signal input interface, connect a powered microphone
❹	HDMI Loop Out	Loops the connected HDMI IN signal
❺	HDMI Input	HDMI input interface, can connect to HD cameras, computers, and other input sources
❻	USB-A Interface	Connect USB drives, portable hard drives, etc., for storage and data transfer
❼	1000M Ethernet Port	Connect for network live streaming and online updates. Supports PoE power supply
❽	HDMI Output	HDMI output interface, main output display, used to connect a monitor for main display switching and monitoring
❾	USB-C Interface	Connect external UVC cameras, etc.

1.2.3 LED Light

Light	Name	Color	State	Description
	**Power**	White	Solid On	Power connected
			Off	Power off or malfunction
	**LINK**	White	Blinking	Network connected
			Off	Network Error or Disconnected
	**Run**	White	Blinking	Normal operation
			Solid On	Booting up
			Off	Device Malfunction or Not Started

1.2.4 Dimension

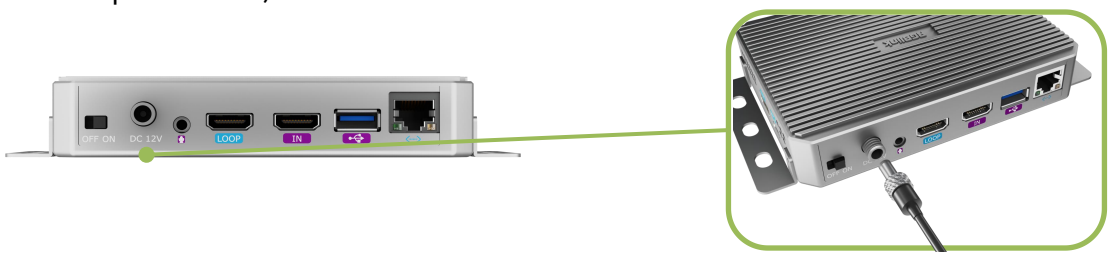
139mm × 99.5mm × 27.6mm (without mounting ears)



Chapter 2 Install Your Product

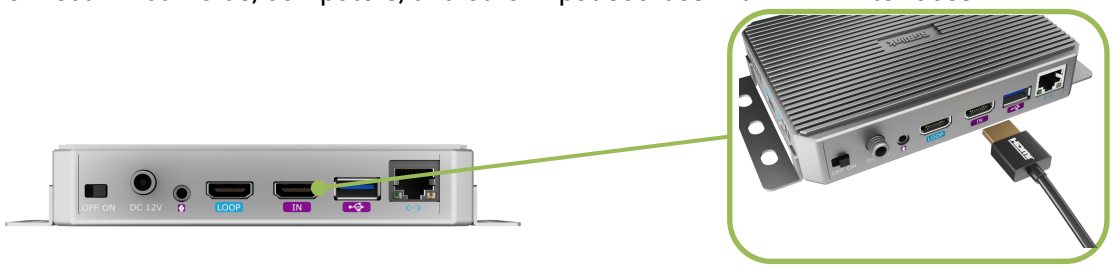
2.1 Connect Power

Insert the power cable, then slide the switch to ON to start the MSP 325N.



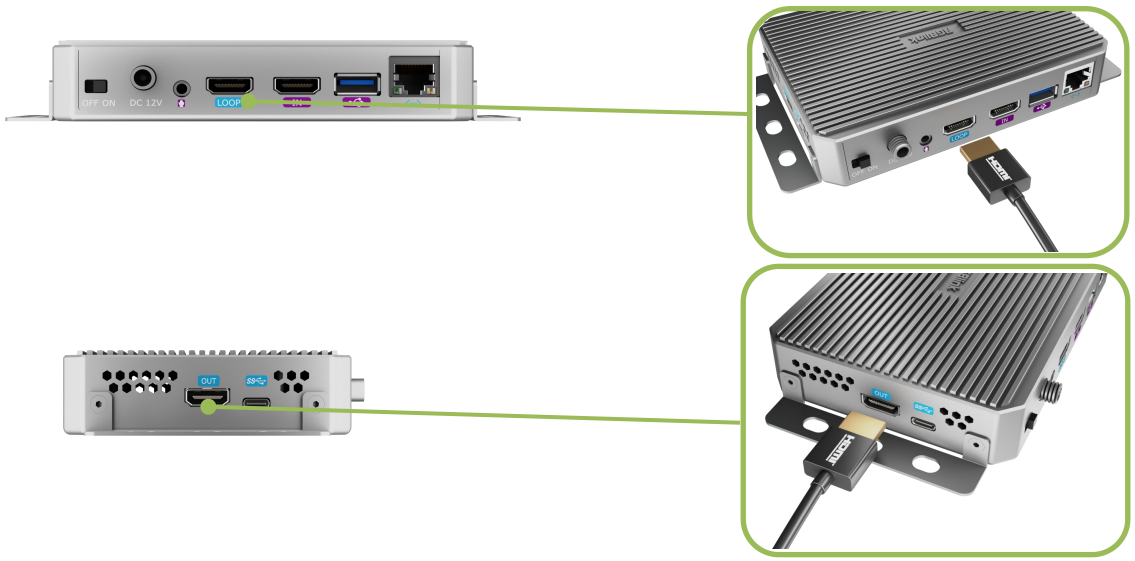
2.2 Connect HDMI Input Cable

Connect HD cameras, computers, and other input sources with HDMI interfaces.



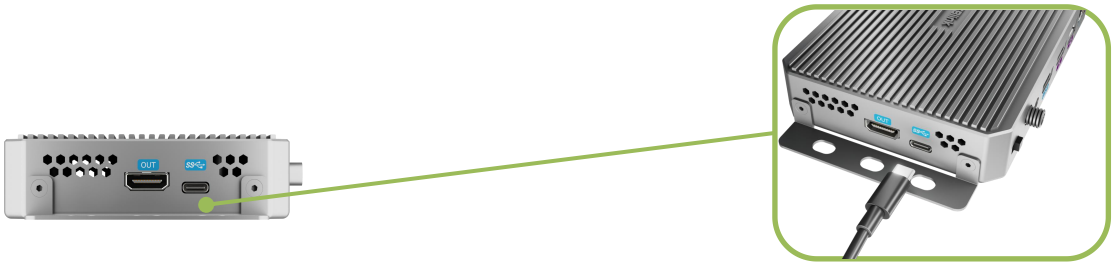
2.3 Connect HDMI Output Cable

HDMI OUT: Use an HDMI cable to connect the MSP 325N to a monitor as the main output.
HDMI LOOP: Use another HDMI cable to connect the MSP 325N to a monitor, looping the HDMI input signal.



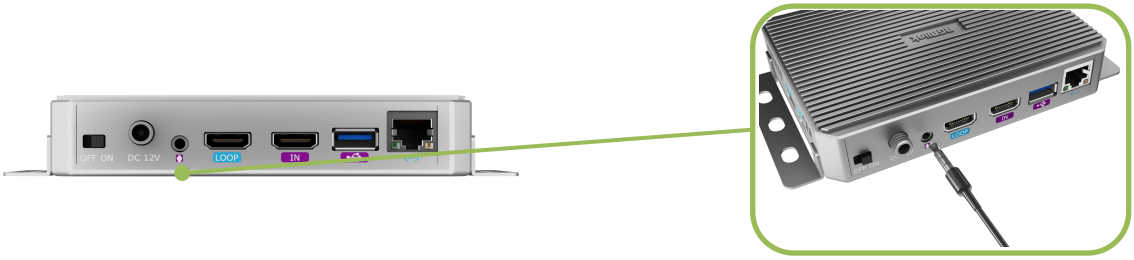
2.4 Connect USB-C Cable

Use a data cable supporting the UVC protocol to connect a USB input camera.



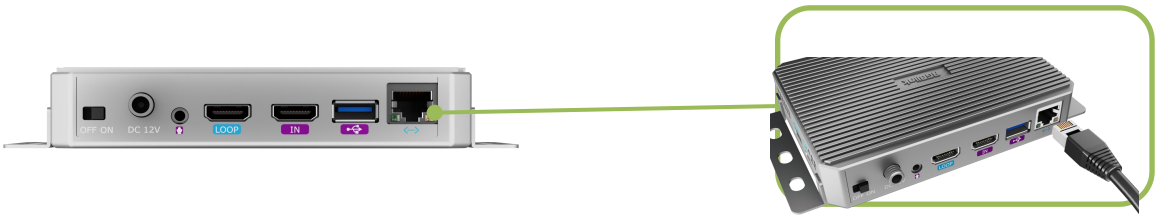
2.5 Connect Audio Cable

Connect a microphone to the Line-in interface.



2.6 Connect Ethernet Port for Streaming

Use an Ethernet cable to connect the Gigabit Ethernet port to enable NDI encoding/decoding and network streaming.



Chapter 3 Product Usage

3.1 Log into the Device Management Page

3.1.1 Logging in via Device Static IP

The device management page address of the MSP 325N is its IP address. Its factory default static IP is 192.168.5.100. For first-time use, you need to set the IP of the login device (e.g., computer) to an IP in the same LAN as the MSP 325N's static IP, i.e., 192.168.5.x (the first three digits of the IP are the same, x is any number from 0 to 254).

Please proceed as follows:

1. Use an Ethernet cable to connect the computer and the MSP 325N (if the computer lacks an Ethernet port, use a USB to Gigabit Ethernet adapter).

2. Disable the computer's current network to set a static IP address.

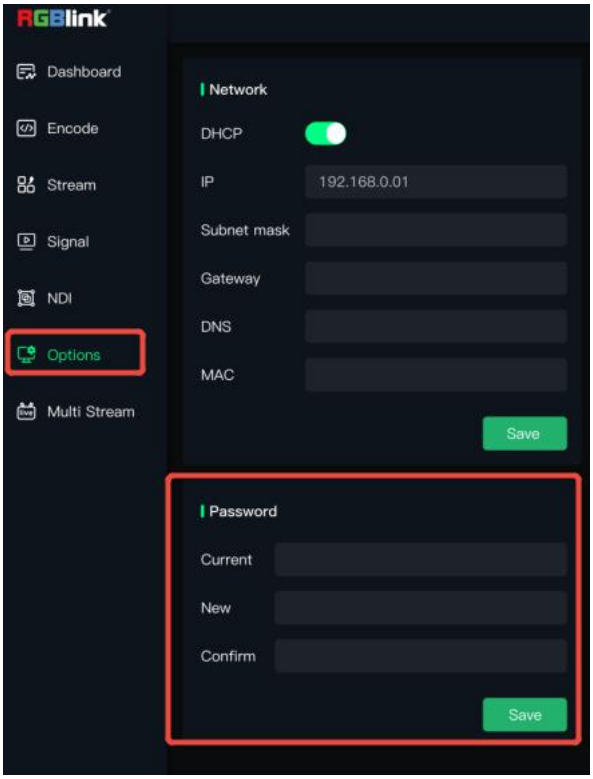
a. Configure the computer's network settings: Go to System Settings > "Network & Internet Settings" > "Network and Sharing Center".

b. "Change adapter settings" > "Ethernet" > "Internet Protocol Version 4 (TCP/IPv4)"

c. Select "Use the following IP address", enter the IP address (first three digits same as MSP 325N's static IP, i.e., 192.168.5.x) and subnet mask (set to 255.255.255.0). The default gateway should also be set to 192.168.5.x. After confirming the settings, the computer and MSP 325N will be on the same LAN.

3. Open a browser, enter the MSP 325N's static IP (192.168.5.100). The default login username and password are both 'admin'.

4. After logging in, you will enter the device management page. It is recommended to change the account password after the first login to ensure device management security.

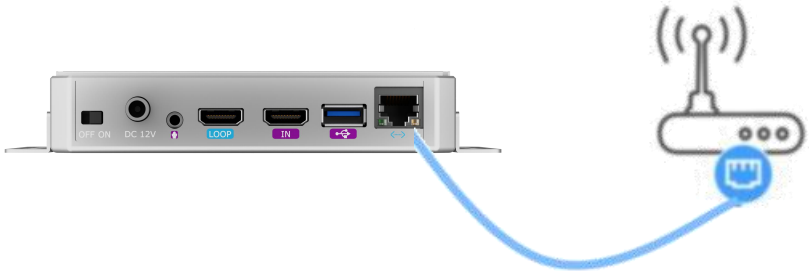


3.1.2 Connect the MSP 325N to the Network

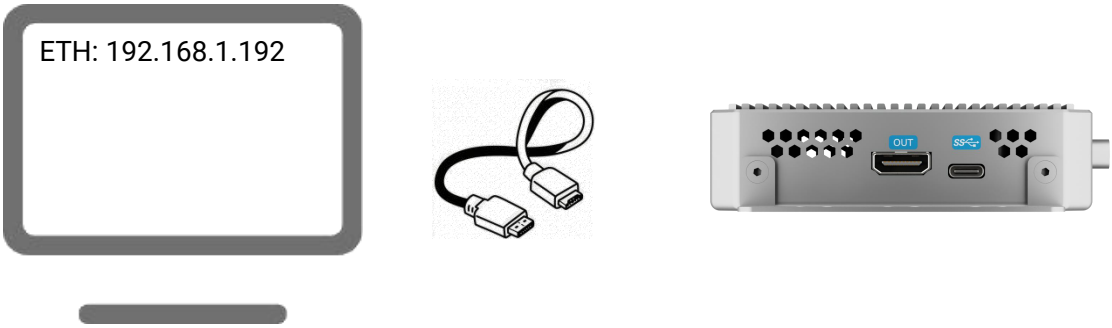
The MSP 325N's DHCP function (automatically receiving assigned IP address) is disabled by default. After the first login using the static IP, you need to go to "Network" in Options" to enable DHCP. This allows the device to obtain an IP address assigned by the router and access the

network.

1. Power on the MSP 325N and connect it to the router using an Ethernet cable.

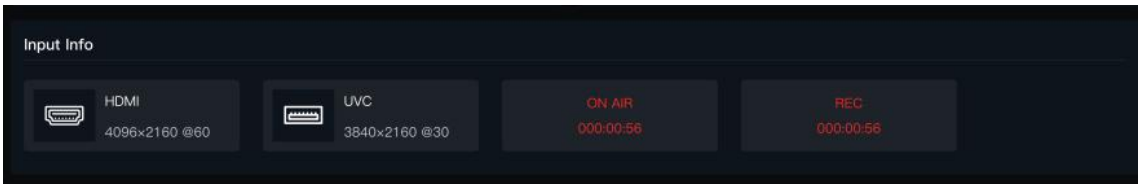


2. Use an HDMI cable to connect the HDMI OUT interface on the right panel of the device to a display. The display will show the IP address assigned to the device by the router (the URL in the example is for illustration only; please use the actual IP address assigned by your router). Example: ETH: 192.168.1.192

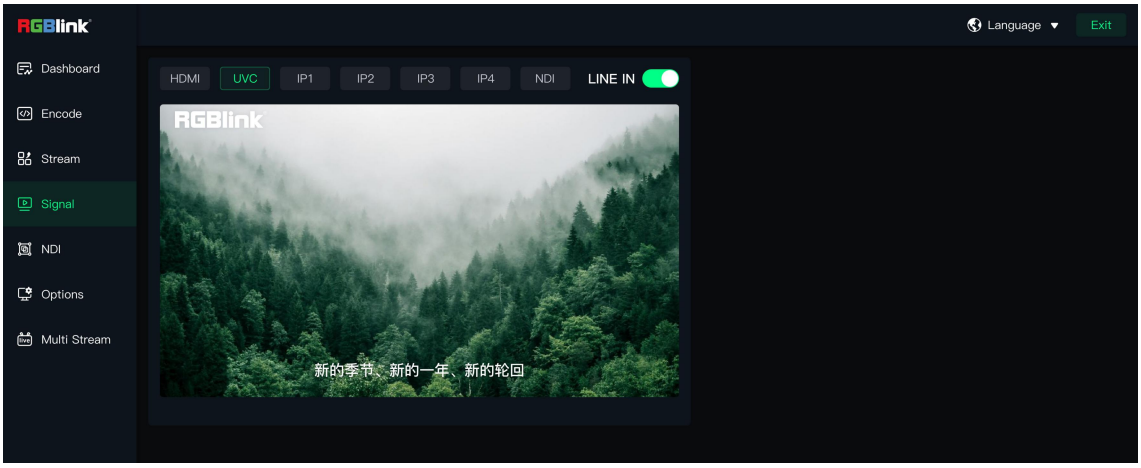


3.2 Dashboard

On the Dashboard, you can view the current system status of the device (CPU usage, memory usage, core temperature), current network status, and connected port status. After enabling the recording function and multi-platform live streaming function, REC will display the current recording duration, and ON AIR will display the current live streaming duration.

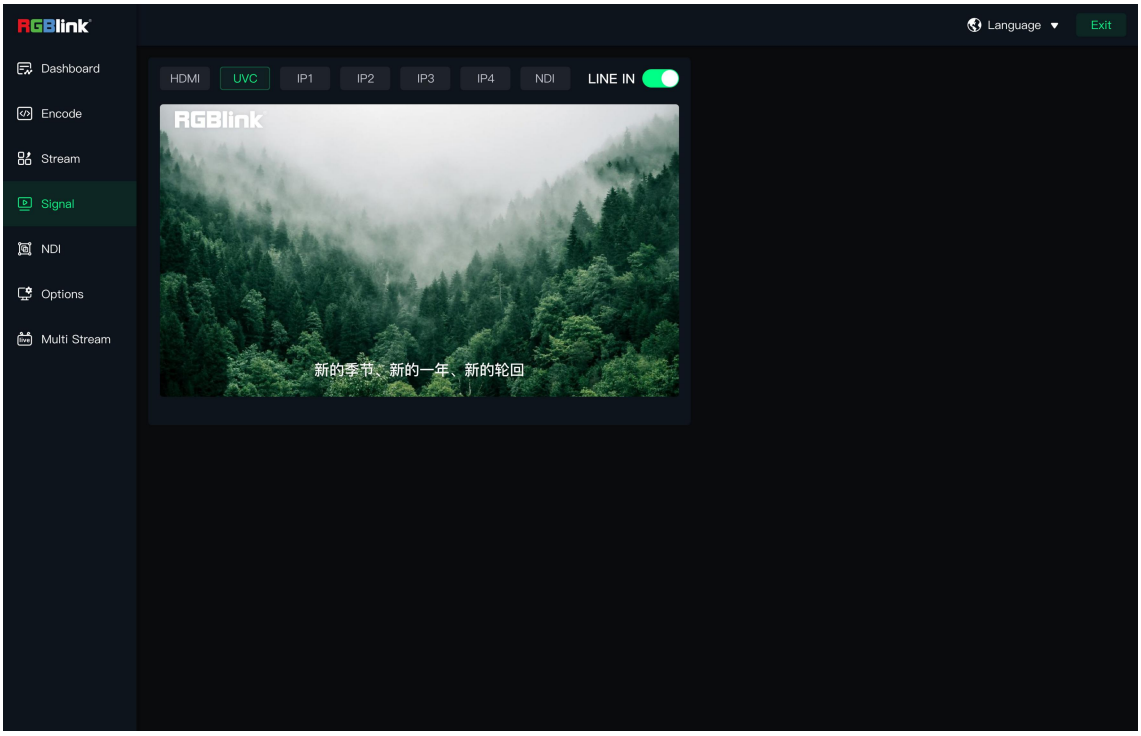


After the MSP 325N connects to a signal or input stream address, if "Preview" is enabled, you can preview the connected signal on the Dashboard.



3.3 Signal Switching

On this page, you can preview all signal sources connected to the MSP 325N via physical interfaces and network inputs. Click on which signal, that signal will appear in the preview window and on the main output display device connected to the HDMI OUT port.



3.4 Encoding Settings

Encoding settings involve the configuration of compression parameters for video and audio, including resolution, codec format, bitrate control method (such as CBR or AVBR), frame rate, GOP and more. These settings are designed to reduce file size or transmission bandwidth while maintaining perceptual quality, making them suitable for both local storage and streaming applications. On this page, you can globally configure parameters for the Main Stream, Sub Stream video, and audio.

3.4.1 Main/Sub Stream Video Parameters

Main/Sub Stream parameters are typically used for video conferencing or RTMP live streaming. The Main Stream is used for high-quality, high-definition main picture transmission and is the core content for viewing. The Sub Stream is usually for screen sharing (PPT, documents, etc.) or abackup relatively low-resolution stream switched to when the network is poor.

1. Resolution: The resolution can be set up to 4K@60Hz.
2. Encoding Method:
   - H.264 (AVC): Video encoding standard, balances compression rate and picture quality, good compatibility, suitable for live streaming, video conferencing, etc.
   - H.265 (HEVC): An upgrade to H.264, improves compression efficiency by about 50% (lower bitrate at the same quality) but requires stronger hardware support. Suitable for 4K/8K ultra-high-definition video.

Note:
Baseline/Main/High encoding cofigurations sequentially provide higher picture quality but requiring slightly higher computational demands.

3. Bitrate Control:

Mode	Name	Picture Quality	Applicable Scenarios
CBR	Constant Bitrate	Fluctuates greatly, unstable	Network live streaming, video conferencing
VBR	Variable Bitrate	High and stable	Local recording, movie encoding
AVBR	Adaptive Variable Bitrate	Very high and more stable	Live streaming requiring both quality and network stability
FIXQP	Fixed Quantization Parameter	Constant	Video quality testing, extreme quality recording

4. GOP (Group of Pictures): The interval duration between two keyframes, in seconds. Affects video error tolerance and compression efficiency.

3.4.2 Audio Parameters

The audio can be set to AAC (Advanced Audio Coding) format, with a maximum sample rate of 48Kbps, supporting stereo dual channels. The bitrate can be set to 128Kbps to ensure audio quality details.

3.4.3 Local and Group

After completing the configuration, you can choose "Apply to Local", meaning the settings only apply to this MSP 325N unit. Or choose "Apply to Group", meaning the settings will be saved to all

discoverable MSP 325N units on the local area network (connected to the same network as you). Click "Apply to Group", the system will automatically search and display MSP 325N units on your same LAN. Click "Start Sync" to synchronize the encoding settings to these devices.

3.4.4 Network Input

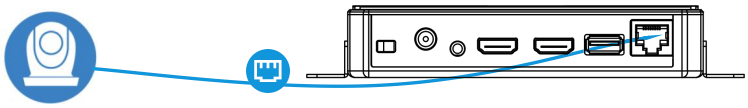
The MSP 325N also supports network input as a signal source, supporting HTTP/SRT/RTMP/RTSP/NDI streaming protocols. Enter the corresponding stream address to obtain the picture.

This section uses pulling the picture from an IP-enabled PTZ camera into the signal monitoring picture as an example. "The IP address of the device must be on the same network segment as the camera's IP address, meaning the first three digits of the device's IP address are the same as the first three digits of the PTZ camera's IP address."

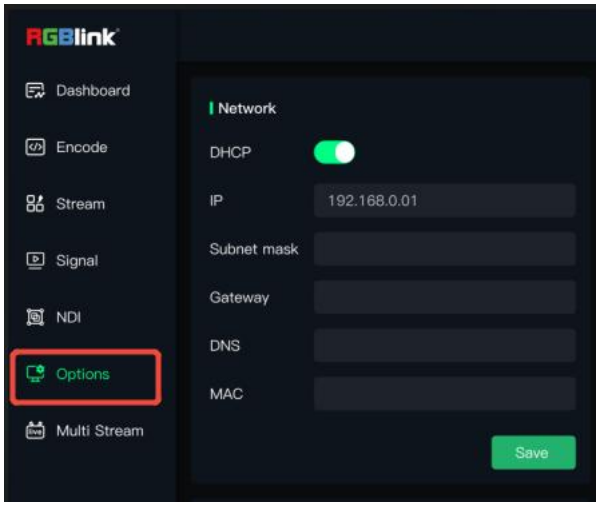
Using Static IP:

Case 1: One PTZ and one MSP 325N

1. In this case, you can make the MSP 325N match the PTZ's IP. Connect the PTZ and MSP 325N with an Ethernet cable.



2. After obtaining the PTZ's IP address from its manual or control panel, go to Options on the MSP 325N, disable DHCP. Manually configure the MSP 325N's IP address, setting the first three digits of the MSP 325N's IP to be the same as the PTZ's IP. Click Save after setup.



Case 2: Four PTZs and one MSP 325N

1. Plan a unified network segment, such as 192.168.1.x with subnet mask 255.255.255.0.
2. Disable DHCP on the MSP 325N and assign it a static IP (e.g., 192.168.1.x, where x is 1–254). Save the settings and refresh the page.
3. Power on the four PTZ cameras and assign each a static IP within the same range

(192.168.1.x).

4. Connect the MSP 325N and all PTZ cameras (all with static IPs) to the same switch via Ethernet cables.
5. Also connect your computer to the same switch. Press Win + R, type cmd, and press Enter. Ping each device's IP address one by one—a successful reply confirms the device is reachable.

For Automatic/DHCP Setup:

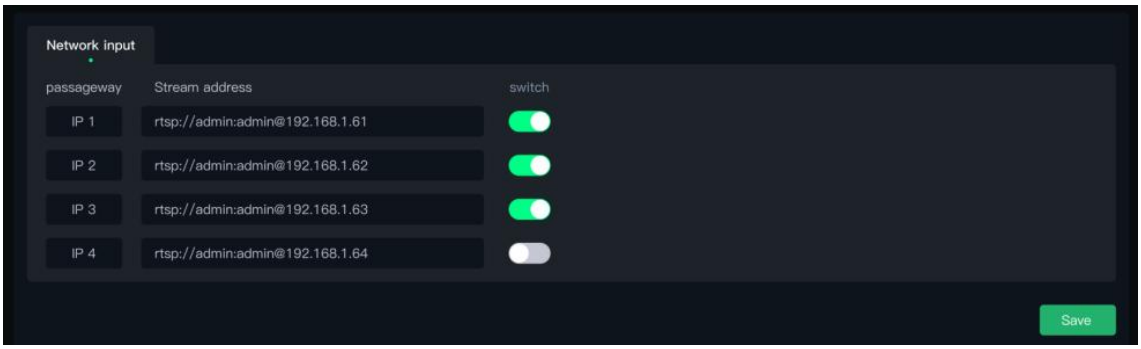
1. Ensure both the PTZ cameras and the MSP 325N are set to obtain IP addresses automatically (via DHCP).
2. Connect all devices—including the MSP 325N, PTZ cameras, and your computer—to the same switch. The router will assign IP addresses to all devices, keeping them on the same network segment.

Note:
The MSP 325N supports PoE power supply. If the chosen PTZ camera also supports PoE, it is recommended to use a PoE switch. In this case, neither the MSP 325N nor the PTZ requires a power adapter, simplifying wiring.

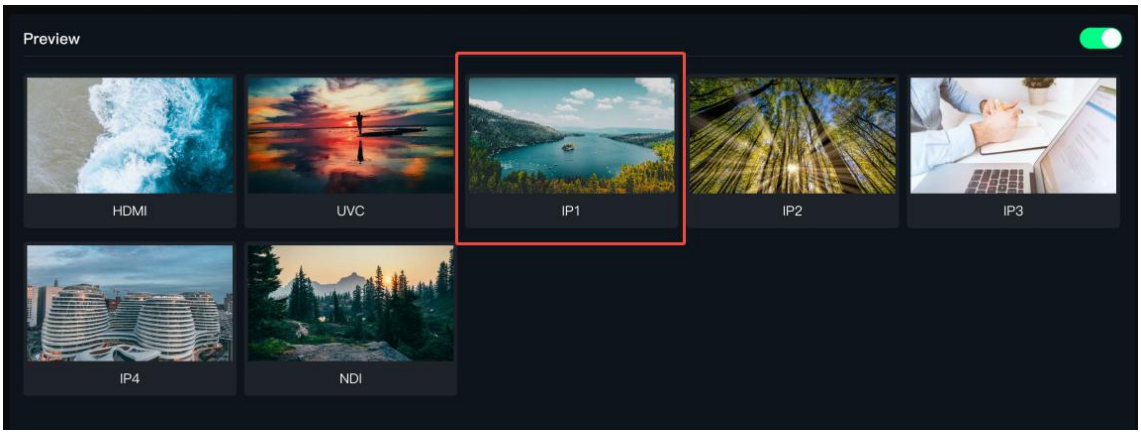
Add Stream Addresses in MSP 325N:

If you confirm that the MSP 325N and the PTZ camera are on the same LAN, this device supports accessing the PTZ camera's (pan-tilt-zoom camera) picture via standard network protocols. To connect successfully, you need to provide the camera's streaming address.

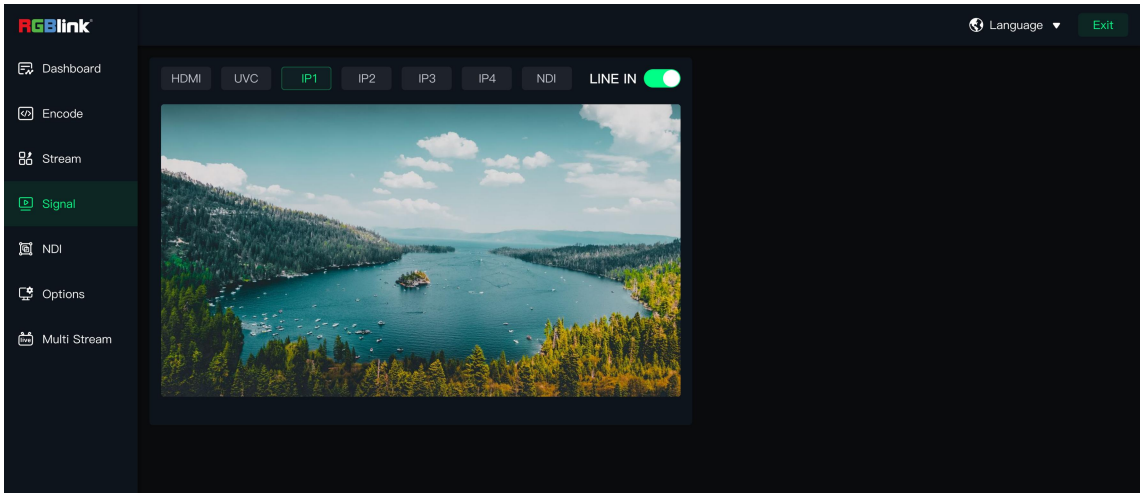
Most stream addresses follow this general structure; you only need to replace the variables. The IP address is the static IP you set for the PTZ when connecting it to the same network as the device, or the dynamic IP obtained from the router. The username, password, and stream path need to be checked in the PTZ's manual.



Enter a description for the stream address, then click “Save” below to save the settings. Now you can enable this stream address and view the PTZ signal in the preview column on the Dashboard.



On the "Signal Switching" page, select a IP signal for HDMI output display.



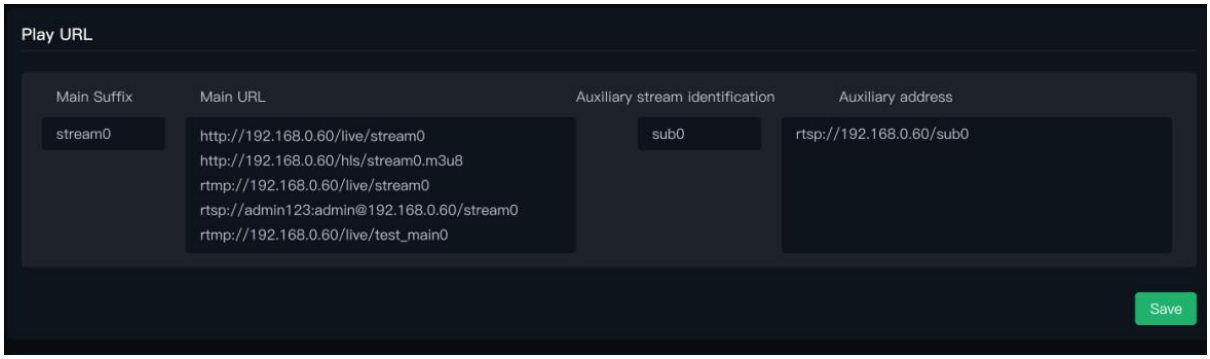
3.5 Output Settings

3.5.1 Global Configuration

In Global Configuration, you can choose the streaming protocol for the Main Stream or Sub Stream as HTTP/SRT/HLS/RTMP/RTSP/NDI/Multicast protocol. Select "Apply to Local" to save the settings to this machine, or select "Apply to Group" to synchronize the settings to other MSP 325N devices found on the LAN.

3.5.2 Playback Address

1. The Main Stream and Sub Stream code identifiers can be modified; however, the supported playback formats of the Main Stream and Sub Stream addresses are fixed and cannot be changed. The Main Stream supports playback in multiple formats including HTTP, RTMP, RTSP, and SRT. You can select the appropriate Main Stream URL format based on compatibility with your player, platform, or network requirements — all formats provide access to the same Main Stream video output. The Sub Stream, however, only supports RTSP format.



2. For the different protocols in the Main and Sub Stream address formats, a simple summary is as follows:

Protocol	Features	Scenarios
RTMP	Very low delay (usually 1-3 seconds), very	Streaming to live platforms (Douyu, Twitch,

Protocol	Features	Scenarios
	stable.	etc.), professional live production.
RTSP	Designed for streaming control (e.g., play, pause). Needs specialized players (like VLC).	Surveillance cameras, video conferencing systems, embedded devices.
HTTP	HTTP-based. Can cut the stream into small files for download and playback.	Web live streaming (Bilibili, YouTube).
SRT	Targets unstable network environments, low latency.	Remote production, high-quality low-latency transmission across public networks.

3. VLC software supports playing all the Main Stream address formats above. You can consider downloading VLC Media Player (https://soft.ljdwl.cn/vlc/bFqbx37.html).

a. Open VLC Player, click "Media" on the top menu bar. In the dropdown menu, select "Open Network Stream...".

b. An input box will pop up. Copy and paste the complete address you see into it, then click "Play".

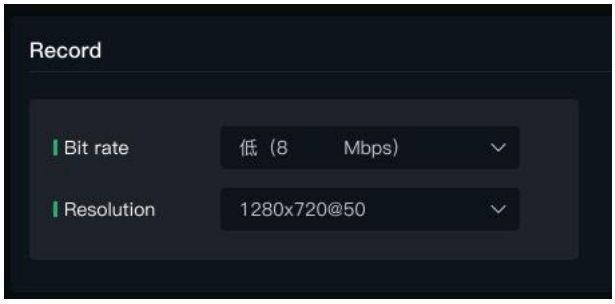
3.5.3 Recording

The MSP 325N supports recording the Main Output picture after inserting a USB drive or solid-state drive into the USB-A interface of the MSP 325N." The maximum supported capacity for USB drives is 128GB, for SSDs it is 2TB. The supported format is exFAT.

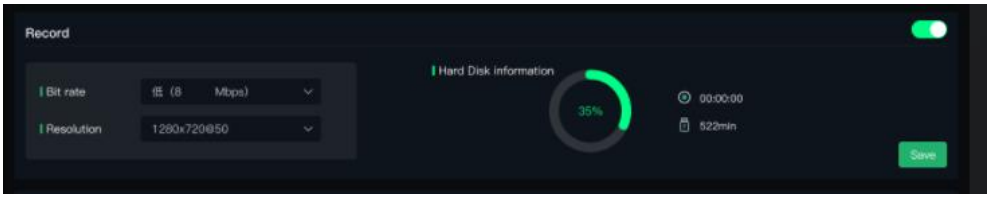
1. Set the recording bitrate and resolution.

a. Low quality recording bitrate is 4Mbps; Medium quality recording bitrate is 8Mbps; High quality recording bitrate is 16Mbps.

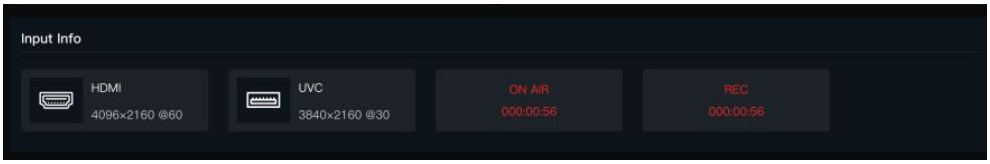
b. Supports up to 4K resolution.



2. Insert the USB drive. On the Recording interface, the MSP 325N will automatically read the used capacity and free capacity of the USB drive. Click the recording switch, and the MSP 325N will start recording and display the total recording duration and recording progress.



3. During recording, you can view the recording dynamics and time on the "Operation Status" page.



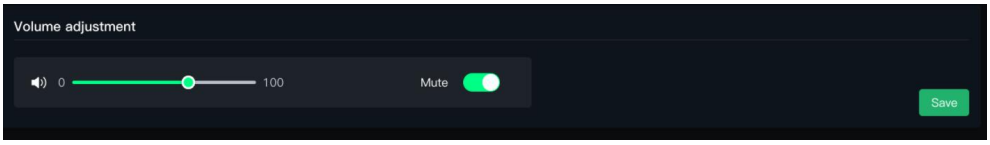
4. After turning off the recording button, the recording content is automatically saved, and the inserted USB drive or portable hard drive is automatically ejected from the device.
5. Insert the USB drive or portable hard drive into a computer to view the recording files. The file format is MP4.

Notes:

1. The supported format for USB drives is exFAT. If the drive is not formatted correctly, please reformat it: On a Windows computer, select "exFAT" as the file system and set the allocation unit size to 128KB.
2. Video recordings are automatically segmented into 4GB files. Recording will stop automatically when the disk is full. To avoid interruptions, regularly check the remaining space of the USB drive in the recording menu.

3.5.4 Volume Adjustment

You can adjust the volume of the Main Output picture here, or enable "Mute" to mute the Main Output.

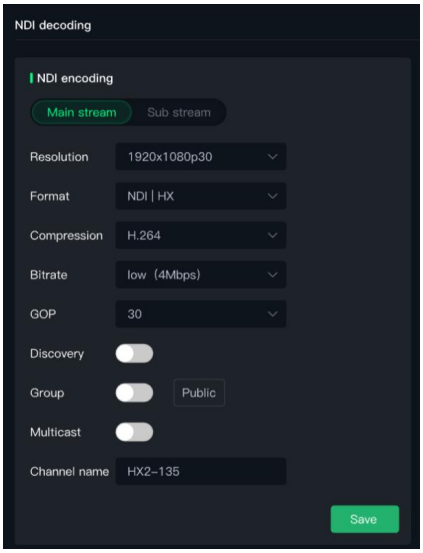


3.6 NDI Encoding

3.6.1 NDI Encoding Settings

The NDI encoding function converts the signal from a USB camera into an NDI stream via the network port. Specific steps are as follows:

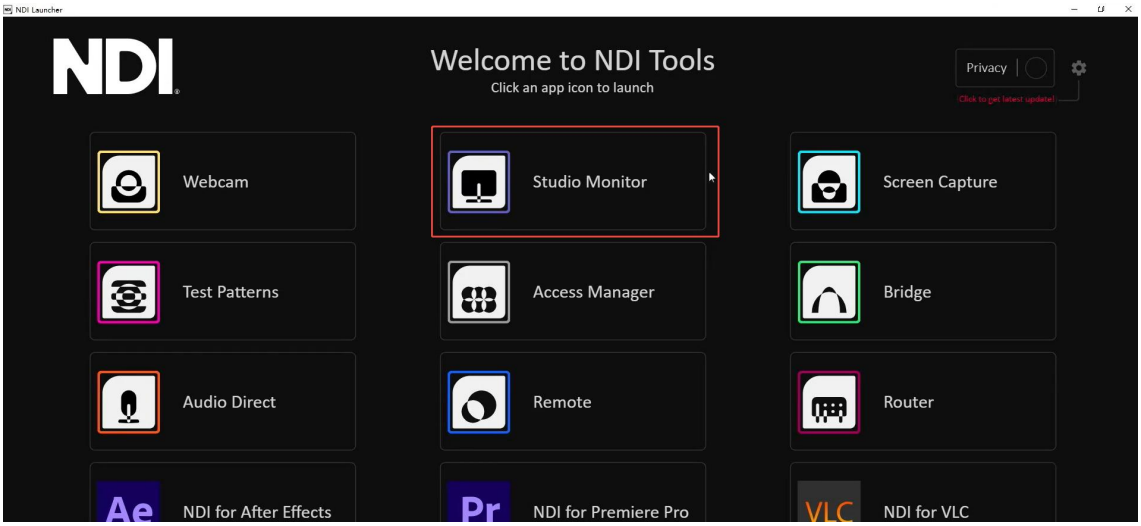
1. Connect the USB camera to the MSP 325N.
2. Configure the computer and MSP 325N to be on the same LAN. You can refer to Section 3.1.2 Connect the MSP 325N to the Network.
3. Set the NDI encoding format. Set the NDI resolution, format, compression format, bitrate, etc., and click "Save".



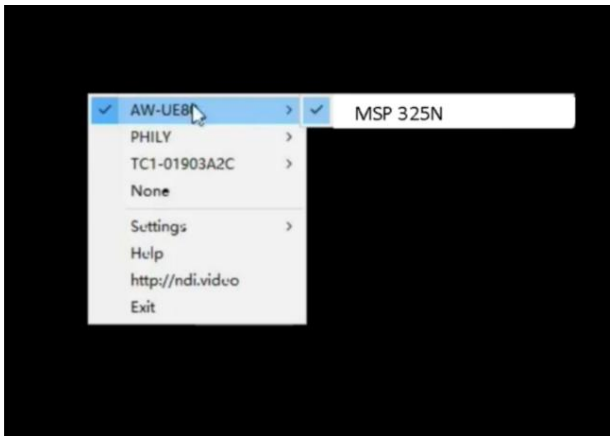
a. Resolution: Displays the resolution of the input signal source. Maximum resolution supported is 3840x2160p@60Hz.
b. Format: NDI encoding formats support Full NDI, NDI | HX3, NDI | HX2, NDI | HX.
c. Compression Format: Default is H.264.
d. Bitrate: Supports up to 8Mbps.
e. Channel Name: Not editable. If the channel name displays as HX-100, where HX is the format selected for NDI encoding, and 100 is the last field of the IP. Users can make overall modifications through the host software.
f. GOP: The interval between key frames. Larger settings save bandwidth but slow down scene switching and fault recovery. If the GOP length is 60 frames and the video frame rate is 30fps, it means there is a key frame every 2 seconds (60 frames / 30 frames/sec = 2 seconds).
g. Group: All NDI signals are in the public group by default if not grouped. You can enable "Group" for grouping.
h. Multicast: The encoder only sends one data stream to the network.
i. Discovery: Enabling this switch allows other devices on the network to automatically find your encoder without manually entering the IP address.

3.6.2 Using NDI Tools to Output NDI Source

1. Download URL:https://www.newtek.com/ndi/tools/
2. Open NewTek's Studio Monitor software.

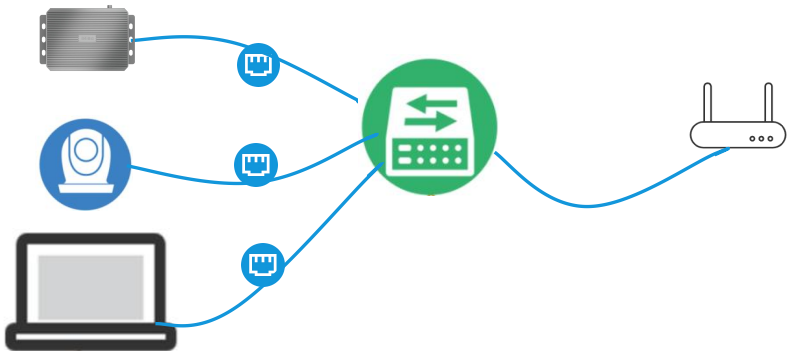


3. Click the icon in the upper left corner to display the list of device names discovered by the Monitor software. Directly select the device you need to connect to, and it will pull and play the currently selected video stream. After successfully pulling the video stream, you can click on the blank area of the device to view the NDI resolution.

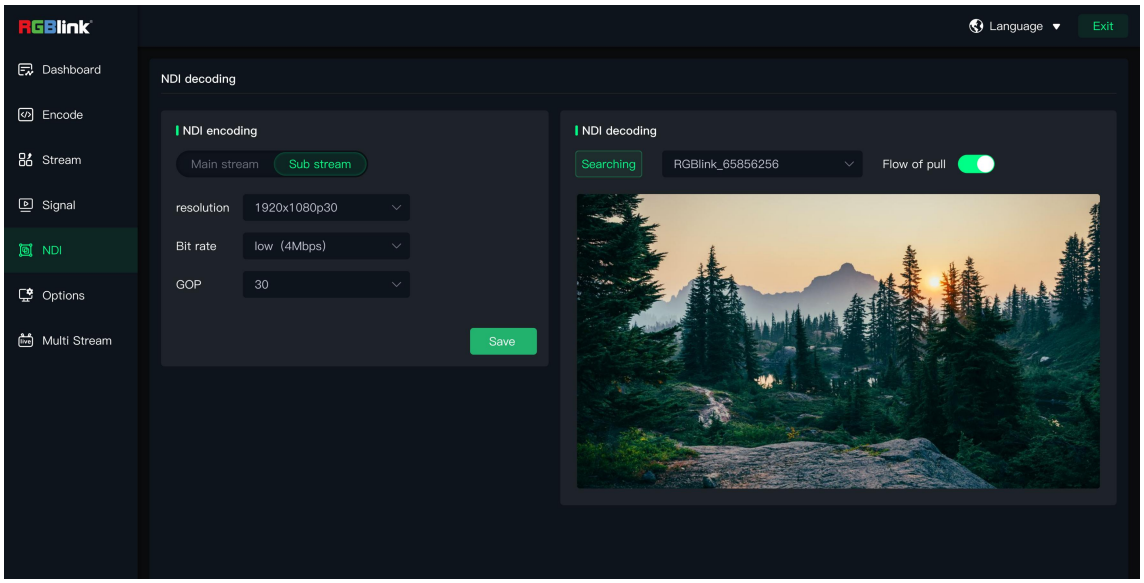


3.7 NDI Decoding

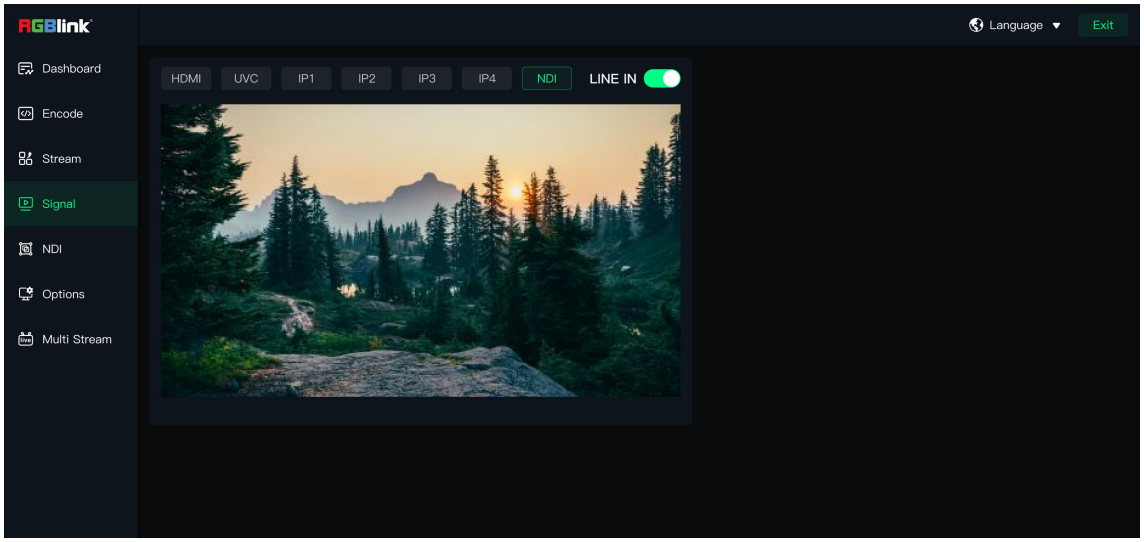
1. Connect the switch and router with an Ethernet cable, then connect the MSP 325N, NDI camera, and computer to the switch, placing them on the LAN.



2. On the NDI Encoding/Decoding page, under NDI Decoding, click Search for NDI Source. Then click Pull Stream, and the NDI source picture will appear in the preview window.



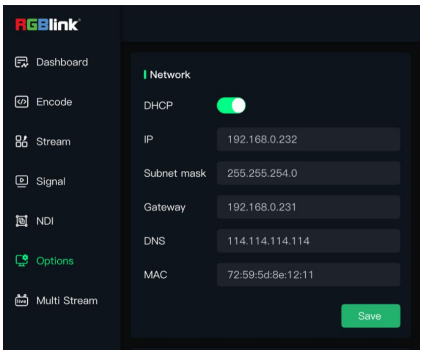
3. The decoded NDI video now becomes an input source. You can switch the HDMI output signal on the "Signal" page.



3.8 Options

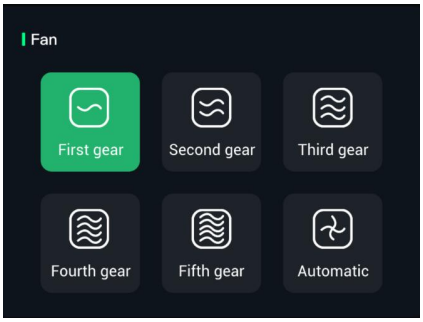
3.8.1 Network Port

When the MSP 325N leaves the factory, the DHCP function (automatically receiving assigned address) is disabled by default. After the first login using the static IP, you need to go to "Network Port" in “Options" to enable DHCP. Disabling DHCP allows manual IP address setting. For details, please refer to Section 3.1.2 Connect the MSP 325N to the Network.



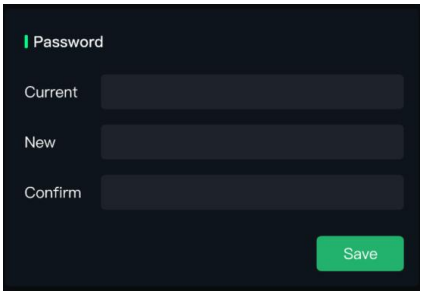
3.8.2 Fan

Click Fan Speed Adjustment to control the speed of the built-in fan of the MSP 325N, enhancing heat dissipation performance.



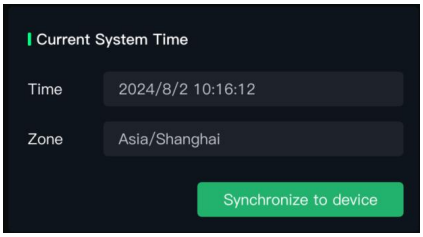
3.8.3 Change Password

After the first login, for the security of your account, it is recommended to change the password immediately.



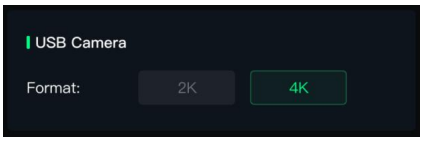
3.8.4 Time Setting

After connecting to the network, the device will automatically synchronize with the local network time, which cannot be modified. You can choose to synchronize to the device.



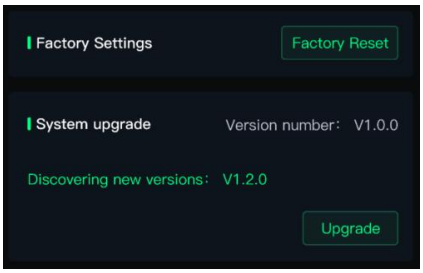
3.8.5 USB Camera

Here you can set the output resolution of the connected USB camera to 2K or 4K.



3.8.6 Factory Reset and Upgrade

Restoring factory settings will unbind the device and reset all user configurations. This operation is irreversible. Please back up important data before performing it! The MSP 325N supports online upgrades. When connected to the network, click "Check for Updates" to detect the latest version and upgrade online.



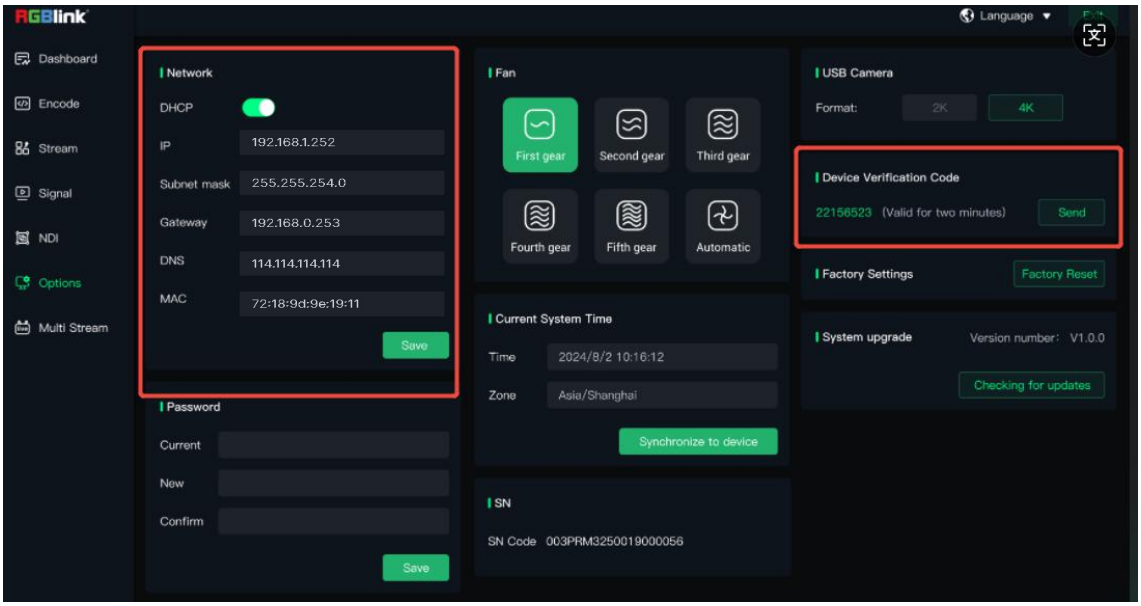
3.9 Multi-Platform Live Streaming

The TAO Cloud platform is a live streaming platform independently developed by Shicheng. It can be used for live streaming after binding Shicheng's live streaming devices and can also manage all bound devices. "TAO Cloud provides an efficient quick streaming platform to meet the needs of content creators to start streaming quickly. After logging into TAO Cloud, live content can be distributed to 30+ mainstream content platforms globally with the help of TAO Cloud's advanced network, breaking through geographical restrictions and achieving widespread dissemination."

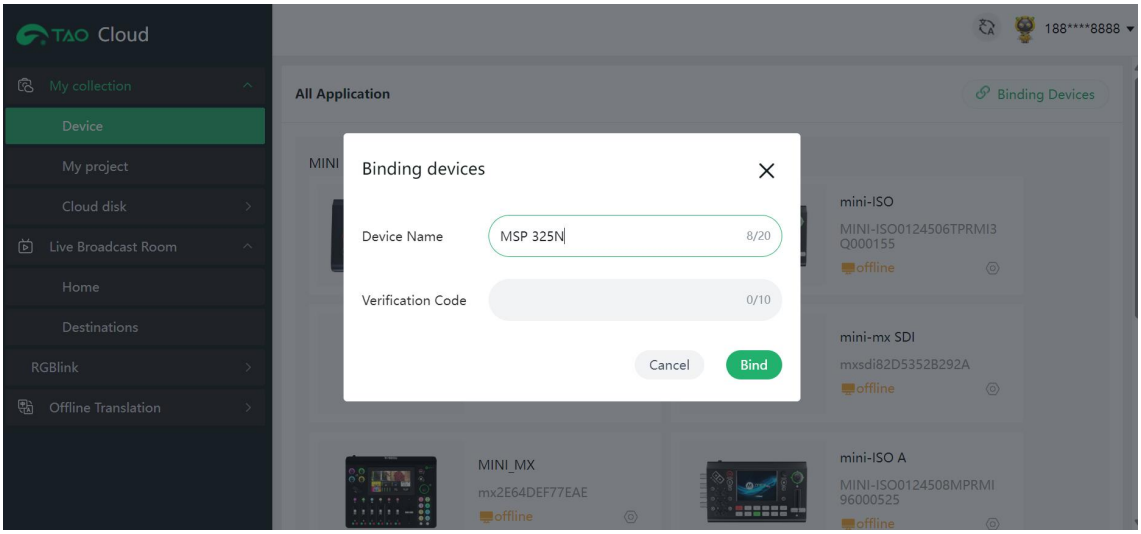
3.9.1 Binding to TAO Cloud Platform

1. Follow the steps in Section 3.1.2 Connect the MSP 325N to the Network to ensure the MSP

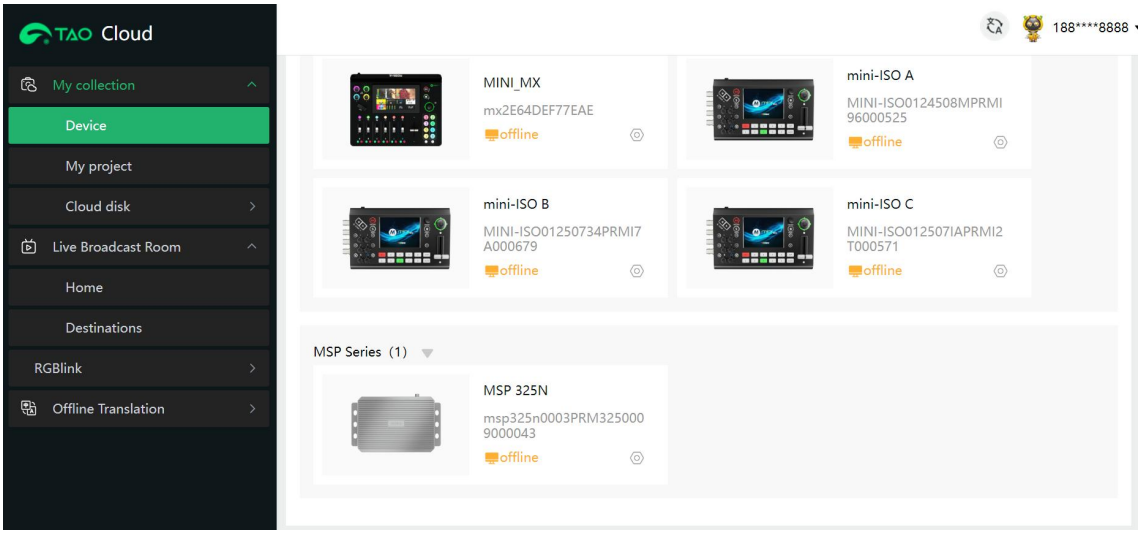
325N is connected to the network. When connected, the IP from your router and the 8-digit device verification code for binding TAO Cloud are shown in the Options page.



2. Register and log in to TAO Cloud (TAO Cloud address: https://www.tao1live.cn). Click "My Collection" > Device > "Binding Devices". If binding fails, return to the MSP 325N management page > Options, refresh the “Device Verification Code", and try binding again."



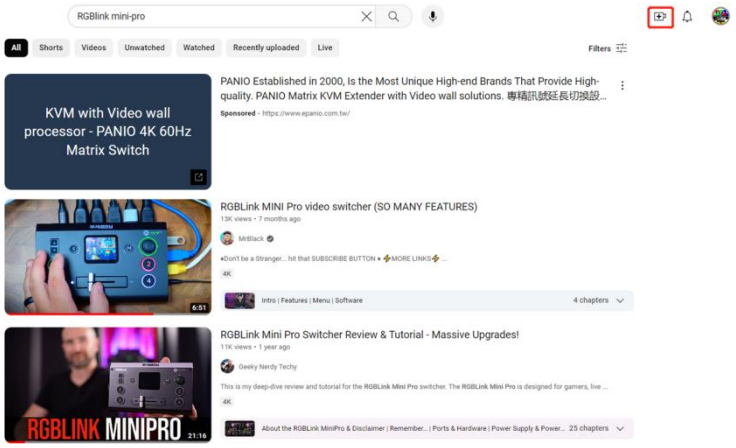
3. After successful binding, the MSP 325N will appear in the list of bound devices. If you want to bind another TAO Cloud account, retrieve the verification code again and use it to bind the other account.



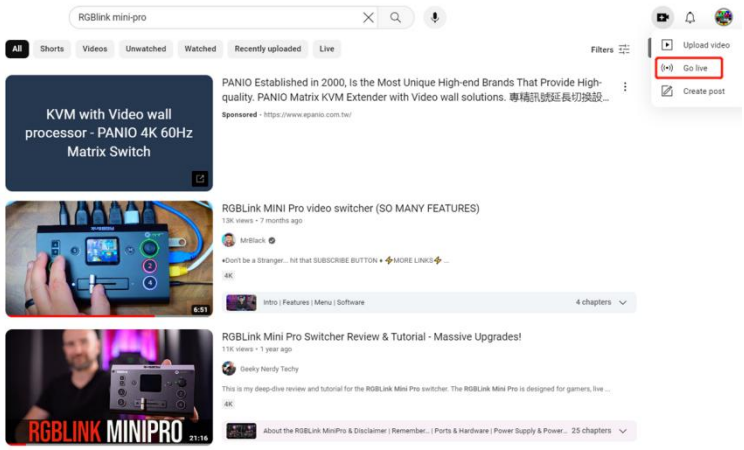
3.9.2 Streaming on Device (take YouTube Live as an Example)

In above operations, MSP 325N has been connected to the network. Then TAO cloud can assign a streaming address. To stream the content to a platform, proceed as follows. This section takes YouTube Live as an example.

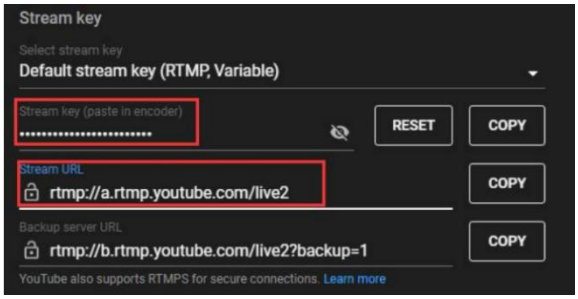
1. Log in your YouTube account on your computer;
2. Click the camera icon in the top right corner to create a video.



3. Select “go live”.



4. Type in a title and add a description in the dialogue box, click “create stream” and then copy the Stream URL and Stream Key.



5. Open TAO Cloud, connect it to the MSP 325N device, fill in the copied Stream URL/Stream key into the “Push Stream Address Box”, click “Send”, and the MSP 325N device will automatically recognize the push stream address. After the live streaming, the “ON AIR” box in the main interface will have a red border.

Copy the live platform's streaming address and stream key into the streaming address field of the MSP 325N. After saving, click Enable, and the device will automatically recognize the streaming address."

3.9.3 Monitoring Live Streams on TAO Cloud

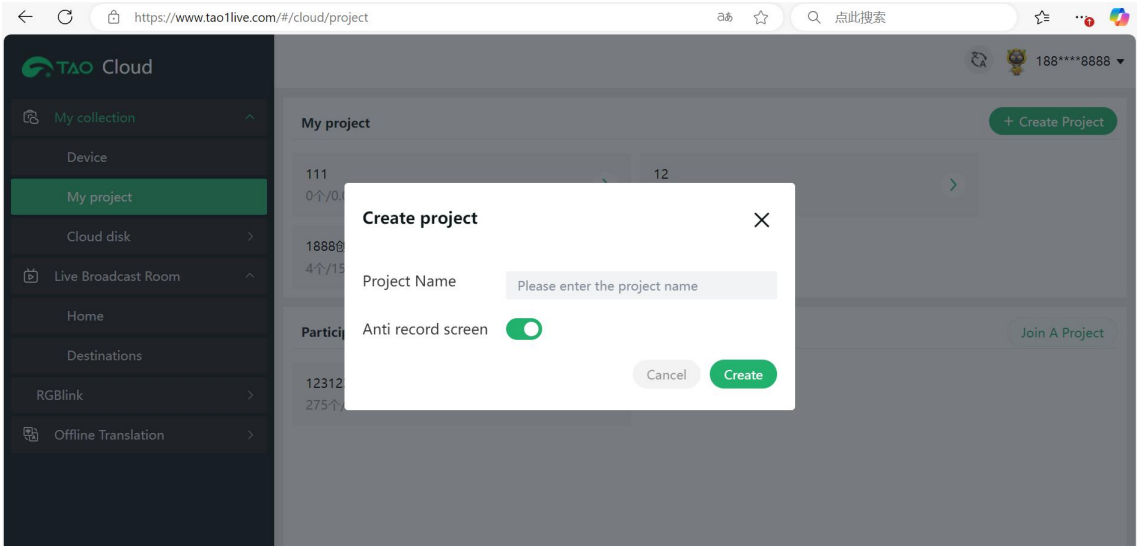
The first streaming address of the MSP 325N is used for streaming to TAO Cloud to monitor the live stream 画面 (picture). It is unmodifiable by default and can only be enabled after obtaining TAO Cloud membership.

1. Become a TAO Cloud Member

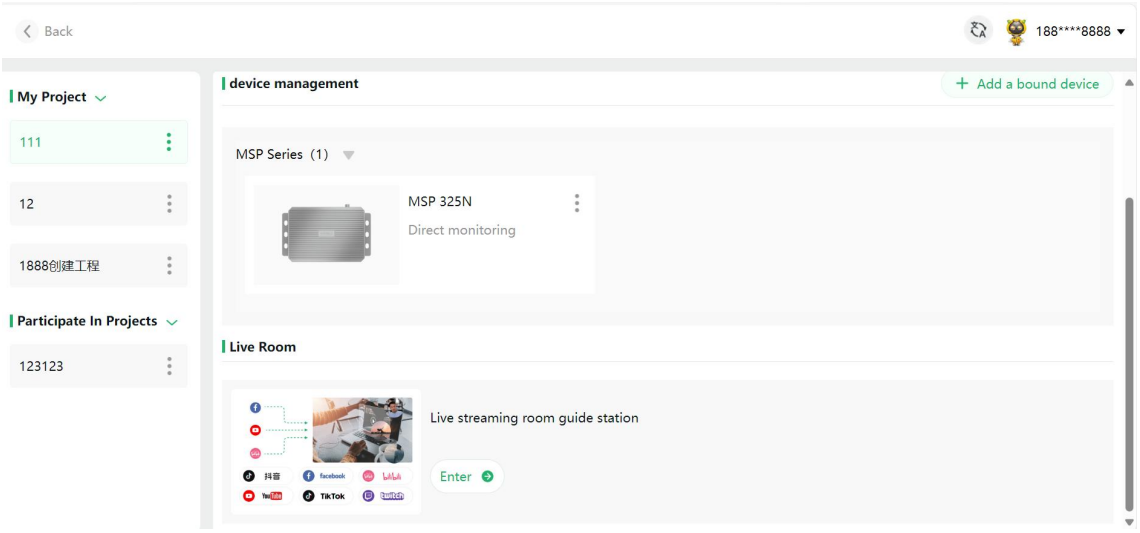
a. Click "Enable" to the right of the TAO Cloud address → Click "Buy Now" to jump to TAO Cloud → Click the avatar to purchase membership.

b. Select the subscription package you want to purchase, click on the payment method, jump to the payment platform to complete the payment, and you will become a TAO Cloud member. After becoming a TAO Cloud member, refresh the "Multi-Platform Live Streaming" page of the MSP 325N. Enter a description for the address as needed, click Save, and finally click Enable.

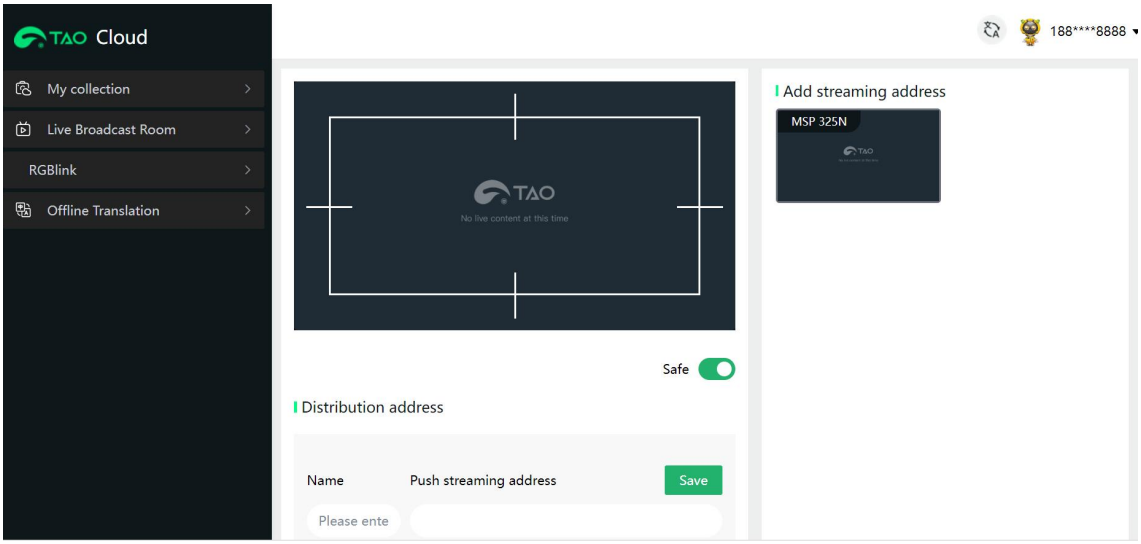
2. Ensure the MSP 325N is already "bound to the TAO Cloud platform". In the navigation bar, select "My Collection" > Project, and create a project. This project can be used to pull streams and view all live rooms after bound TAO Cloud devices start streaming. When you create a project, the video anti-screen recording function is enabled by default. If you need screen recording, you can manually disable it.



3. Enter the created project and click "Add Bound Device" to add the MSP 325N to the project. At this point, if you directly click on the MSP 325N in the device management bar, you will go directly to the device management page.



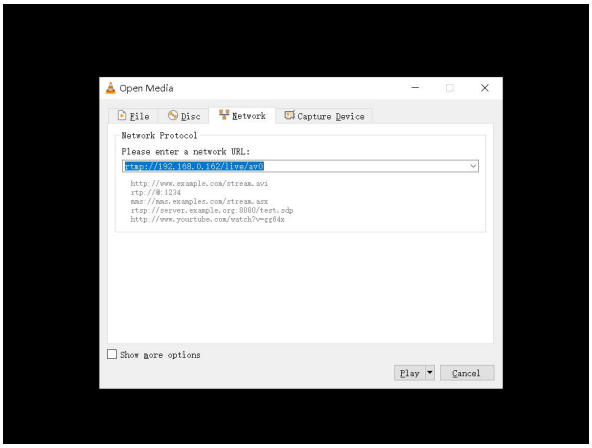
4. To view the picture streamed to TAO Cloud, click to enter the Cloud Live Room in the cloud director section below. Here you can view the live stream picture of the MSP 325N.



3.9.4 Using VLC to Monitor Live Streams

You can also choose other software like VLC Media Player or PotPlayer to view the live content. Download VLC software (https://soft.ljdwl.cn/vlc/bFqbx37.html) and open it:

1. Check the MAC address (Media Access Control address) in "Network Port" under Options on the MSP 325N.
   Example: 809d65020e28 (remove the colons between characters).
2. Open VLC Media Player, click "Media" > "Open Network Stream", then enter the network URL and click "Play" to view. The network URL input format is:
   https://play.tao1.info/809d65020e28.flv
   The website format remains unchanged; enter the MAC code provided by your network in the middle.

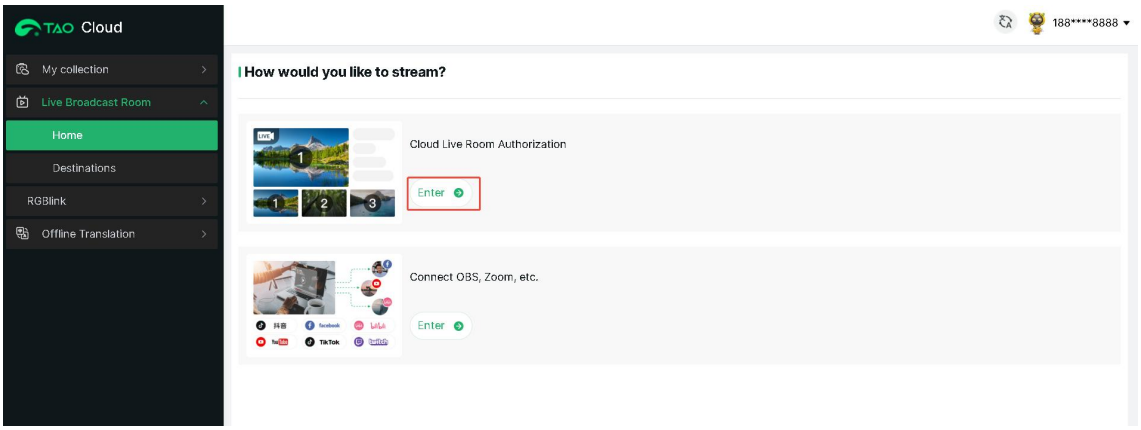


3.9.5 Using TAO Cloud for Multi-Platform Streaming

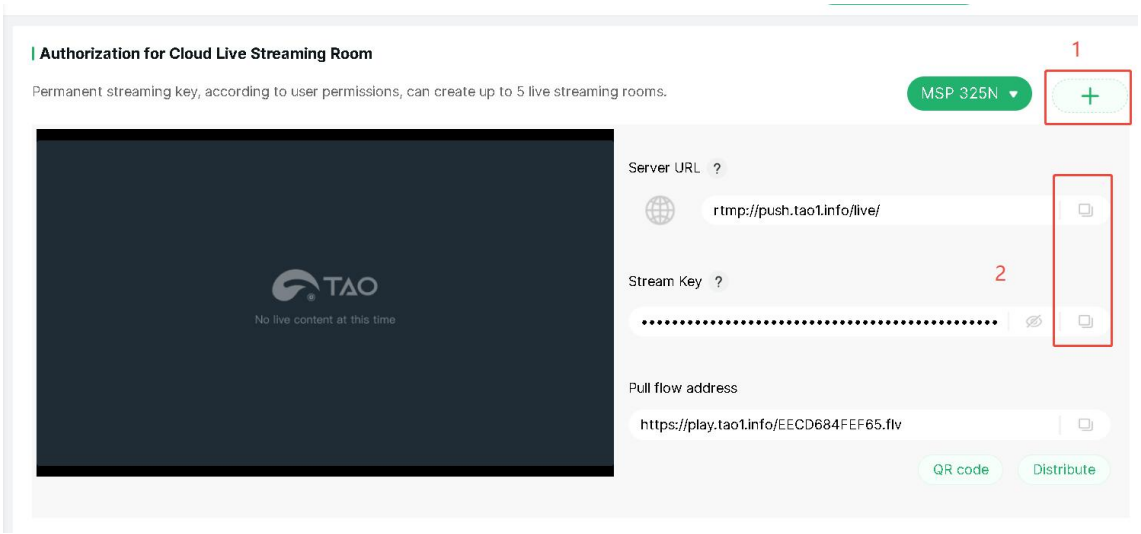
Becoming a TAO Cloud member also breaks through the quantity limit of local multi-platform streaming, allowing streaming to 30+ mainstream platforms globally.

1. **Create a Cloud Live Room on TAO Cloud**

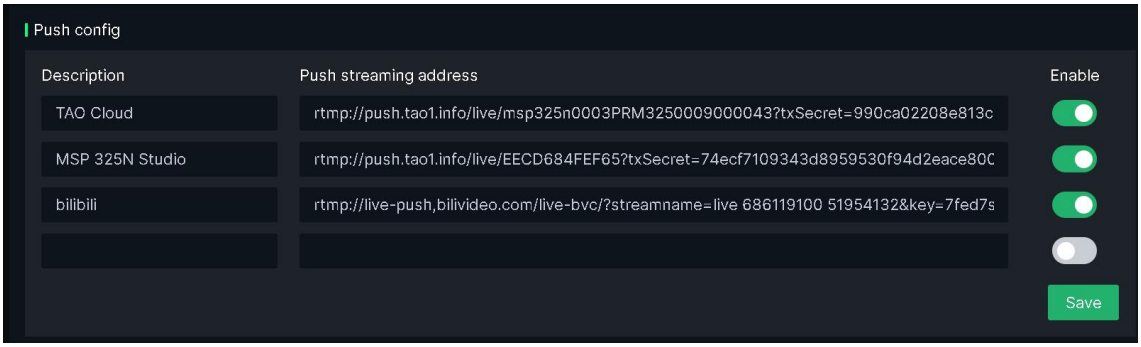
a. Log in to TAO Cloud (same account as TAO App registration). In the navigation bar, select "Lice Broadcast Room" → "Cloud Live Room Authorization".



b. Click the "+" sign to create a live room. Copy the server address and stream key to the streaming address field. The format for copying the TAO Cloud streaming address to the MSP 325N is: server address directly followed by the stream key.



c. Click Save, then click Enable for this streaming address.



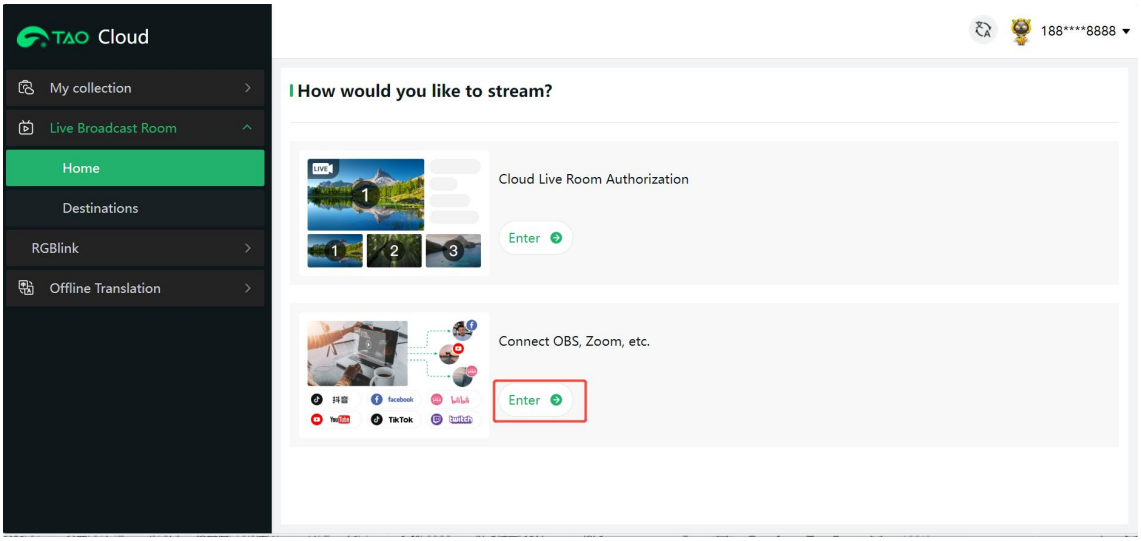
d. The video preview window will now display the picture from the TAO Cloud live room.

2. Set Up Live Rooms on the TAO Cloud Platform

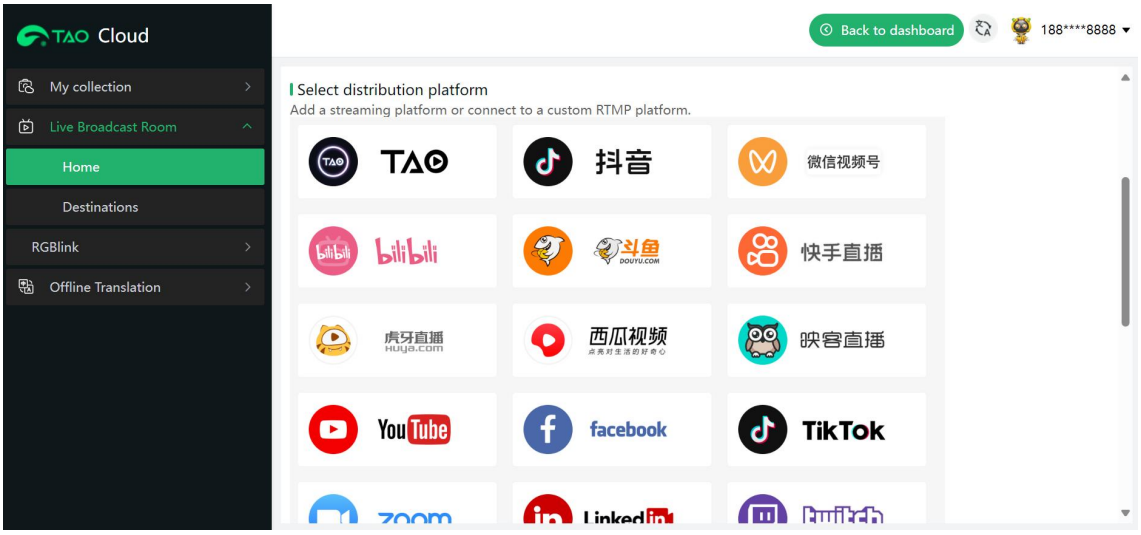
After enabling the TAO Cloud platform's live room address, to use this address to stream to multiple live streaming platforms, you need to set up the live room information for different platforms on TAO Cloud.

The operation is as follows:

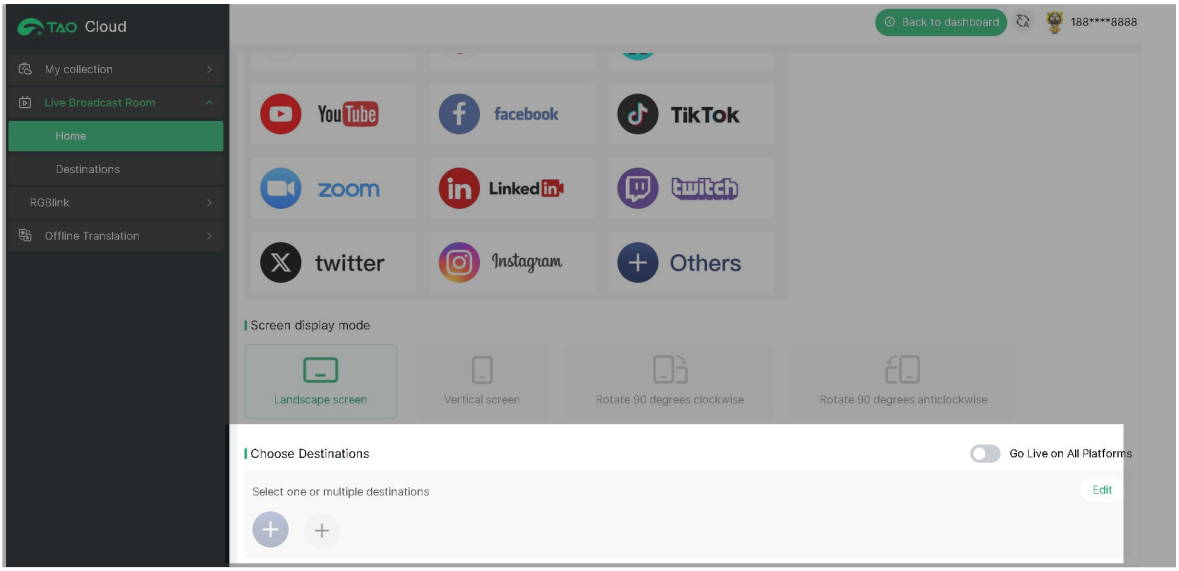
a. In the TAO Cloud navigation bar, select "Live Broadcast Room", enter "Connect OBS, Zoom, etc.".



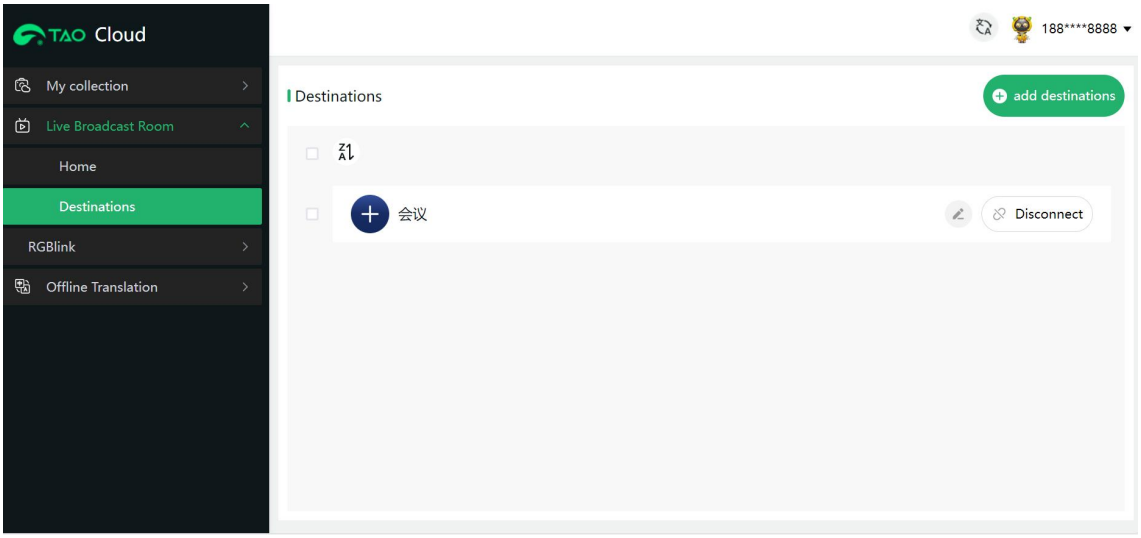
b. TAO Cloud comes pre-equipped with mainstream streaming platforms at home and abroad. Directly click on the platform you want to stream to and complete the information setup. Or click "Other" to add a new platform.



c. "Distribution" bar: Click the "+" sign to add the already set up distribution platforms. After successful addition, you can click the icons individually to start streaming, or turn on "All Platforms Online" to achieve multi-platform streaming with one click.



d. After achieving multi-platform streaming, if you want to modify the live room information, you can do so on the TAO Cloud Video Matrix management page.



Chapter 4 Appendix

4.1 Specifications

Interface	Input	HDMI 2.0	1 × HDMI-A
	Output	HDMI 2.0	1 × HDMI-A (Loop)
		HDMI 2.0	1 × HDMI-A
	Audio	Line-in	1 × 3.5mm Audio Jack
	Capture	USB	1 × USB-A
	Storage	USB	1 × USB-C
	Ethernet/Upgrade/ Stream	LAN	1 × RJ45
	Power	Power	1 × DC socket
Performance	Input Resolution	HDMI 2.0	720p@50 | 1920 × 1080i@50/60 | 1920 × 1080p@24/30/50/60 | 3840 × 2160@30/50/60
		Format	RGB/YYUV 4:2:2 8bits
		Deinterlacing	YES
		Embedded Audio	YES
		HDCP	2.2/1.X
	Output Resolution	HDMI 2.0	720p@50 | 1920 × 1080i@50/60 | 1920 × 1080p@24/30/50/60 | 3840 × 2160@30/50/60
	Audio Input	Analog Audio Input	LINE IN
	Record	Video	H.264, up to 32Mbps
		Audio	AAC, up to 48Kbps
	Storage	Built-in Storage	128GB
	Encoding	Performance	H.264/H.265
		Protocols	HTTP/SRT/RTMP/RTSP/NDI
		Resolution	up to 3840 × 2160p@60
	Decoding	1 × 4K@60Hz, 2 × 4K@30Hz, 4 × 2K@60Hz	

Power	DC Input	12V/2A
Working Environment	Temperature	0℃~55℃
	Humidity	5%~85%
Physical	Net Weight	0.33kg
	Package Weight	0.96kg
	Net Dimension (no mounting ear)	139mm × 99.5mm × 27.6mm
	Package Dimension	255mm × 147mm × 88mm

4.2 Revision History

Format	Time	ECO#	Description	Principal
V1.0	2025-08-25	0000#	First Release	Alyssa

Chapter 5 Technical Support

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