



mini-ISO

10-Channel All-in-One Switcher



Quick Start

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Product Overview

Key Features

- Mini and convenient to carry
- 3.5-inch TFT touch screen for menu operation, signal preview, and working status display
- 4-CH HDMI 2.0 inputs (HDCP 1.4 compliance), resolution up to 4K@60
- 4-CH SDI inputs support signals from camera, recorder, etc
- 2-CH HDMI 1.3 outputs for monitoring of multi-view Preview, Program, or Test Pattern
- Seamless video switching between 5 channels (4 x HDMI / SDI and 1 x NDI/UVC) with transition effects
- 4 HDMI/SDI for mixed signals and 2-channel external audio mixing support
- UVC input supports signal from webcam, UVC Camera, USB capture, etc
- NDI encoder output as an NDI source in the ethernet range
- T-bar switch and 15 transition effects support
- Fast mode and preview switch mode support
- USB 2.0 for recording in exFAT or FAT32 format with bitrate up to 16Mbps
- USB 3.0 output supports YUY2 or MJPEG format, which can be recognized as webcam for streaming or capture

- RTMP(s) network streaming up to 4 platforms
- One NDI output support
- Independent control of PTZ, zoom, and focus of up to 5 PTZ cameras; fast view saving and view recall.
- 5-direction joystick and toggle for controlling PTZ camera (IP VISCA Protocol supported)
- Specify either "green" or "blue" as the key color for Chroma Key
- TAO Cloud control support, compatible with mobile devices and desktop

Front Panel



No.	Item	Description
1	ZOOM IN/OUT	<ul style="list-style-type: none"> Function as focus adjustment and zoom in/out when a PTZ device is being controlled. Adjust the layer size when a layer is selected.
2	Streaming and view recall button	<ul style="list-style-type: none"> Tap to turn on/off the streaming. S is the shortcut key for layer (PIP) or PTZ control selection. Tap to illuminate the button and enter layer scaling and layer position adjustment.
3	3.5-inch touch screen	<ul style="list-style-type: none"> Ten preview windows by default. Tap the screen to start the MENU interface.
4	ENTER MENU A/B	<p>ENTER Tap the button to select and confirm the selection.</p> <p>MENU</p> <ul style="list-style-type: none"> Tap the button <ul style="list-style-type: none"> Tap the 10 pre-monitoring windows screen to open the main menu. Tap the menu screen to return to the previous interface and the main menu with a long press. Tap the main menu to exit the menu interface and enter the 10 pre-monitoring windows screen. <p>A/B Tap to select a layer.</p>

5	Five-direction joystick	<ul style="list-style-type: none"> • Move the joystick up, down, left and right ◦ Adjust the direction of a PTZ when it is being controlled. ◦ Adjust the layer position when a layer is being controlled. Tap to enable the layer scaling and tap again to reset the layer size to full screen and another tap can reset the layer to the previous size.
6	Audio Adjustment Knob AFV Mute	<p>Audio Adjustment Knob:</p> <ul style="list-style-type: none"> ◦ The knobs with digital logos are used to adjust the volume of the input signals HDMI 1~4 (embedded audio). Tap [AFV] to enable the audio-follow-video function of the current channel. ◦ The left bottom knob controls the analog audio input. Tap the button to mute and tap again to cancel the mute. ◦ The right bottom knob is for the program output volume control. Tap the button to mute and tap again to cancel the mute.
7	①②③④⑤	<ul style="list-style-type: none"> • Press button 1~5 above to switch the dedicated input directly to the program output. • Press button 1~5 below to switch the Preview signals according to the layer selected. • Press "CUT" to switch between PRE and PGM. • Press "AUTO" to switch the layer effects between the PRE and PGM. • Button unlit: no input signal • Button lit white: an input source loaded but unselected • Button lit green: preview output status • Button lit red: program output status
8	T-Bar	<ul style="list-style-type: none"> • Switch manually between the preview and program outputs according to the selected switching effect.

Interface Panel



No.	Item	Description
1	HDMI multi-screen preview output port	Default multi-screen pre-monitoring output, selectable program output, HDMI 1 ~ 4, AUX output.
2	HDMI 1~4 input port	<ul style="list-style-type: none"> • Four HDMI input ports that can be connected to HD cameras, computers and other input sources. • Input resolution supports up to 4K and is backward compatible.
3	USB-C power connector	Support PD protocol, 12V/2.5A.
4	Power switch	Boat-shaped switch and downward openable.
5	Headset Interface LINE IN	<ul style="list-style-type: none"> • Headset interface; Through the headset separation cable, you can split the interface into one passive MIC input and one audio output.

		<ul style="list-style-type: none"> • Active audio input to connect to a cell phone, computer or audio console.
6	Gigabit Ethernet Port	<ul style="list-style-type: none"> • Control: connect a camera and can directly control the camera. • Streaming: connect to the Internet and can be used for webcasting. • TAO Cloud web control
7	Record	<p>Insert the mobile SSD or U disk to record PGM directly.</p> <p>Act as a video input when connecting to a camera.</p>
8	HDMI Main Output	<p>Program output port: Default output real-time screen, can choose to output multi-screen monitor screen and test color bar.</p>
9	Webcam	<p>USB Push Streaming Interface: Capture the screen through the third-party streaming software and stream it to the live broadcasting platform for live broadcasting.</p>
10	SDI 1~4 Inputs	<ul style="list-style-type: none"> • Four SDI input interfaces can be connected to HD cameras, computers, and other input sources. • Input resolution support up to 2K and backward compatible. • Input supports 3G/HD/SD-SD.

Installing mini-ISO



Connecting HDMI Inputs

Connect laptop, camera, or DVD to mini-ISO's HDMI IN port via HDMI cable.



Connecting SDI inputs

Connect PTZ, camera or other SDI sources via SDI IN cable.

Connecting HDMI Output

Use HDMI cables to connect MULTI-VIEW and PROGRAM output ports to a monitor with an HDMI input port to check Preview and Program views in real-time.





Connecting a Microphone or External Monitoring Devices

mini-ISO features two audio inputs, allowing the user to connect the microphone to the MIC IN/LINE IN port and one audio output to connect the speaker or earphone to the AUDIO OUT port.

Connecting a USB for Streaming

Connect the laptop to mini-ISO's USB port labeled as webcam via USB cable, and mini-ISO will be captured as a webcam source.



Connecting the LAN for Streaming

Using the LAN port, users can perform live streaming directly to the live platform.



Connecting a USB for recording

mini-ISO supports recording streaming media content to an external USB storage device, such as U disk or SSD through the USB port labeled as **RECORD**.



Notes: Format the SSD and the U-disk before recording.





Plugging in Power

Connect mini-ISO to power plug by a power adapter or a power cable.

Turning on mini-ISO

Push the power switch on the rear panel, the device will show the logo of mini-ISO and then enter the operation interface.



Using mini-ISO

MENU Introduction



Start the Journey from the MENU

Tap the "M" Button and the 3.5-inch LCD screen will show the MENU Interface.

MENU Introduction

Tap an icon to enter the corresponding function management interface. Swipe from right to left to switch the MENU list.

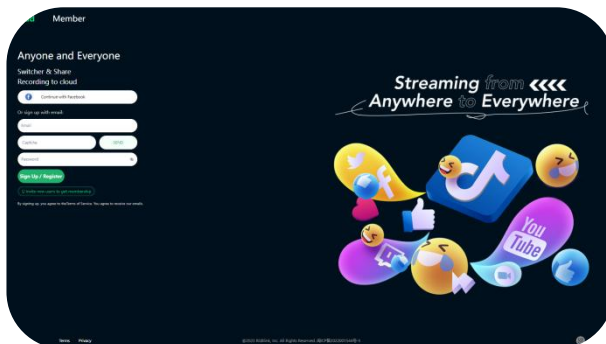
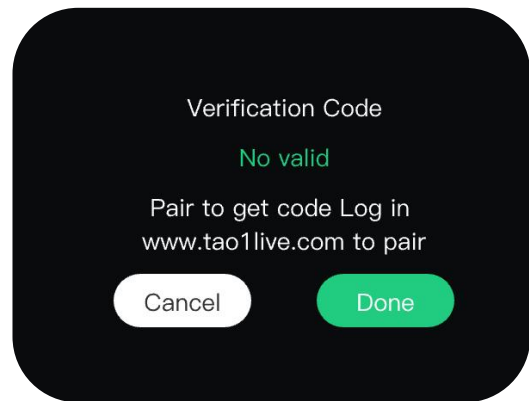


TAO Cloud Device Access

Capturing Verification Code

Tap the "M" Button to enter MENU. Tap "SETTINGS" > "TAO Cloud" to enter the interface as shown.

Follow the steps in the box to get the verification code and bind mini-ISO to TAO Cloud.



TAO Cloud Login

Access the website below to enter TAO Cloud. Enter the email and password, then click "Sign Up/Register" to enter the homepage.



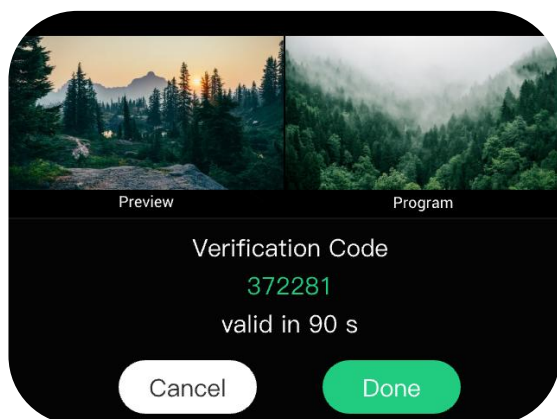
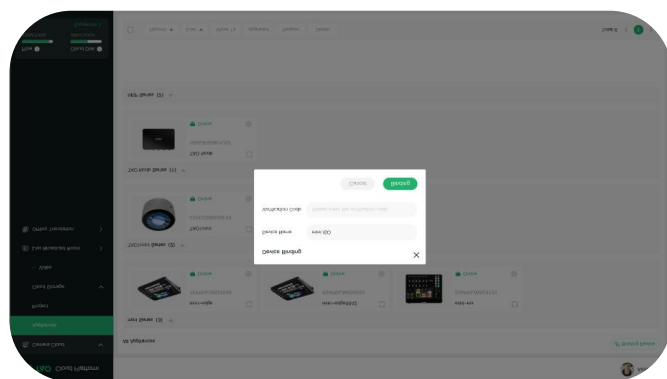
Notes:

TAO Cloud Website: <https://www.tao1live.com>

Binding a Device

Enter the TAO Cloud homepage, then click "All Appliances" > "Binding Devices".

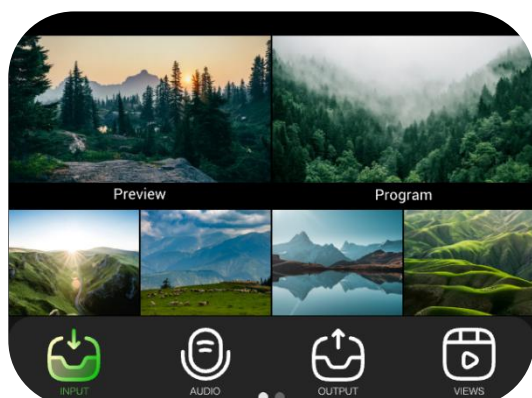
Enter the device name (customizable) and verification code, then click "Bind" to confirm. You can check the binding status in the "All Appliances" interface.



Unbinding a Device


If you want to unbind a device, click "TAO Cloud" on mini-ISO once again and then select "Rebind". Then you can choose to rebind or perform other operations.

Input Setting



Entering Input Setting Menu

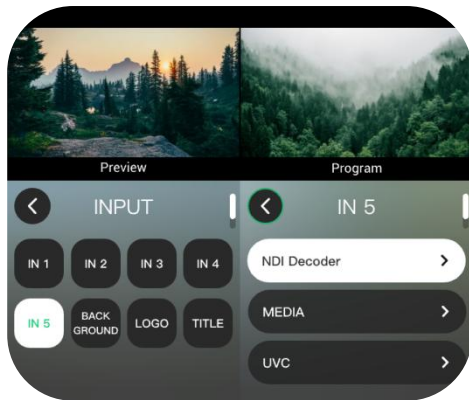
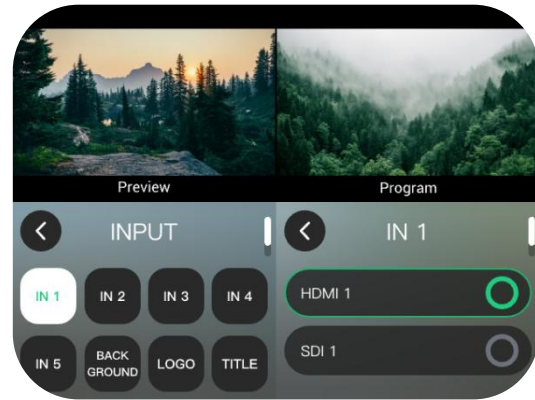
Tap "M" and enter MENU.

Tap  on the touch screen to enter input source configurations.

Selecting input sources

For IN1~IN4, each IN has a HDMI (HDMI IN1-IN4) and a SDI (SDI IN1-IN4) to select.

For IN5, there are NDI, MEDIA and UVC to select.



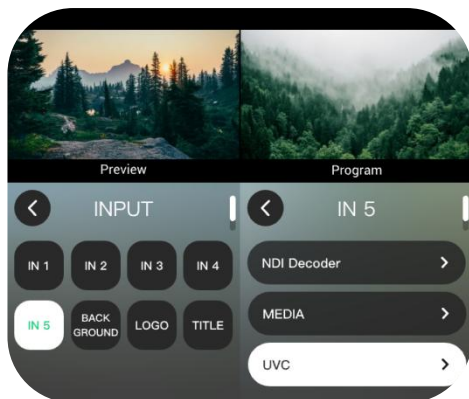
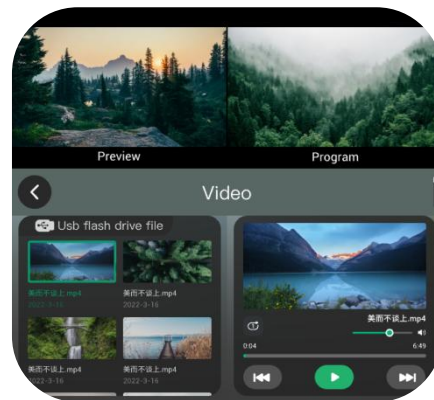
NDI Decoder

The NDI decoder is not available by default. If the NDI source is needed for IN5, users need to bind mini-ISO to TAO Cloud in advance.

Choose a MEDIA file

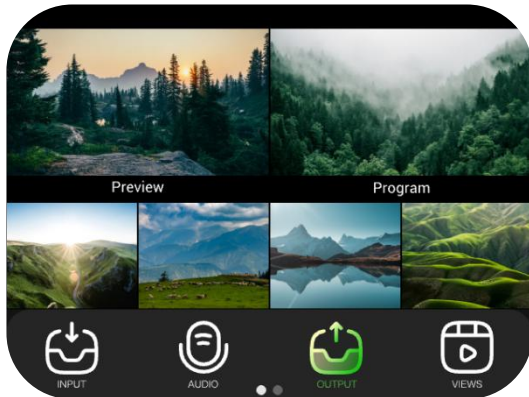
Choose a video from a U drive disk.

This function will be available by future firmware upgrade..




Enabling UVC Input

Output Setting



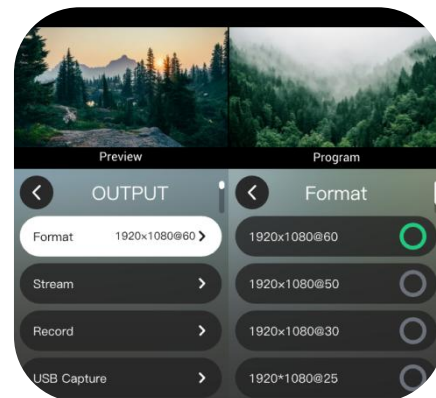
Entering Output Setting Menu

Press the button “M” and start the MENU,

Tap  on the touch screen to enter output sources configuration.

Setting the Output Format

Set output resolution for PGM HDMI OUT



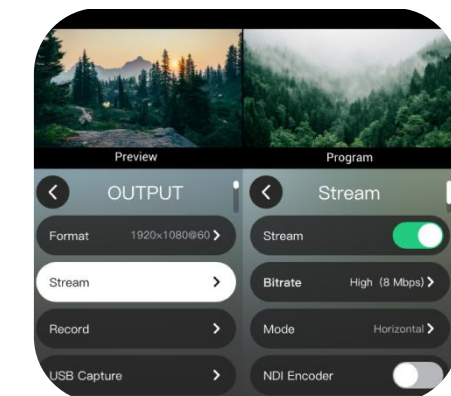
Enabling streaming

Stream: ON/OFF

Bitrate: the higher the bitrate, the better the image but count on the network support.

Mode: horizontal screen/vertical screen

NDI Encoder: ON/OFF

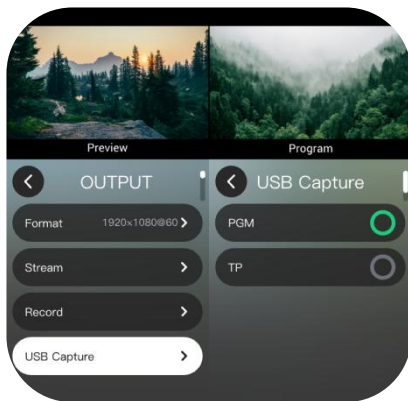
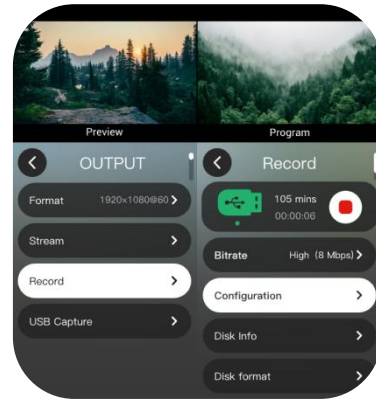


Recording

Bitrate: the bitrate is 8Mbps by default and other bitrates are configurable

Configuration (image quality): low (2 Mbps), medium (4 Mbps), high (8 Mbps), best (16 Mbps)

Disk information: storage used rate info



USB capture

PGM: Select PGM main content as webcam output

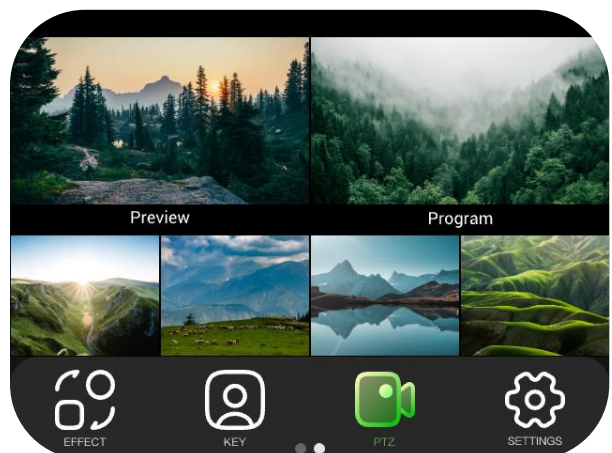
TP: Select the Test Pattern as webcam output

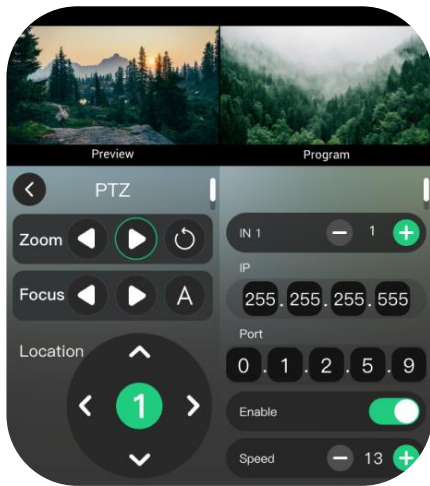
Controlling PTZ Cameras

Controlling PTZ Cameras

Press "M" Button to start the MENU. Tap "PTZ" to enter the PTZ control interface.

mini-ISO supports up to five cameras control at the same time. The switch between different cameras is achieved by switching the signals.





Setting IP Address

The IP address of mini-ISO and the camera being controlled should be in the same LAN.

When setting the IP address, tap the touch screen to select different IP segments. Then use the ENTER knob to adjust the value and press the ENTER to confirm.

Adjusting Parameters

Adjust focus, position, and speed.

Using Toggle and Joystick

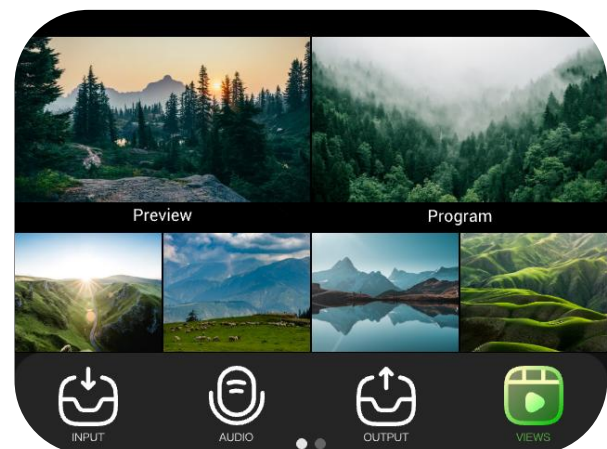
The user can use joystick to adjust pan and tilt of the PTZ and toggle to adjust the zoom.

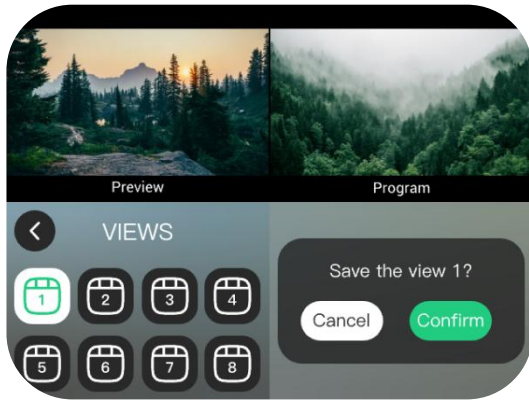


Saving Views

Entering View Interface

Press "M" Button to enter MENU. Tap "VIEWS" to enter the interface.





Saving Views

mini-ISO allows user to save 8 presets in total to the corresponding VIEW 1~8.

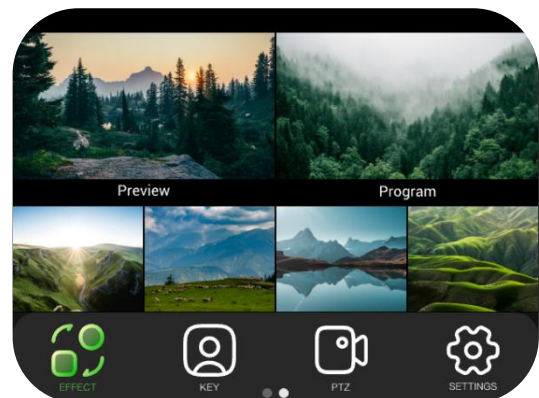
- Black: No operation
- Green: View loaded
- White: View selected

Save a view with a long press.

Transition Effects

Transition Effects

Press "M" Button to enter MENU and "Effect" to switch.



mini-ISO offers 15 transition effects in total.

Fast mode

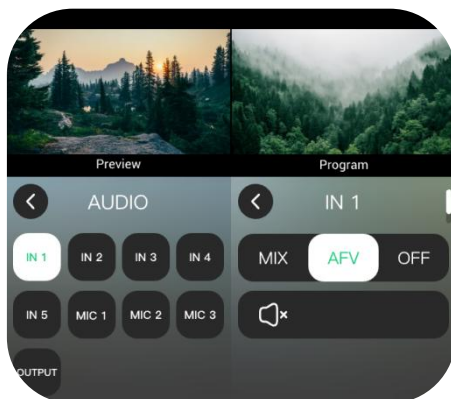
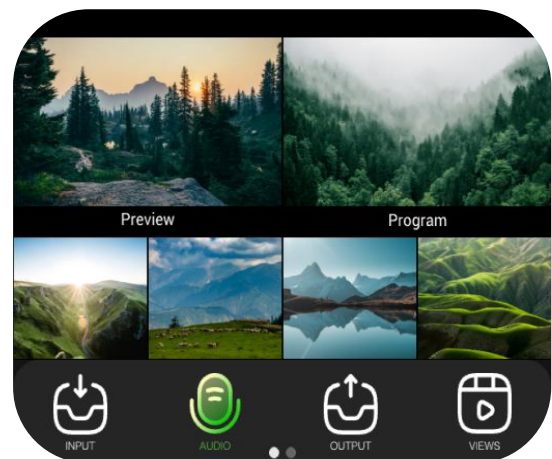
Press signals ①②③④⑤ on the front panel to fast select a signal and press CUT to switch the effect.



Audio

Default Configuration

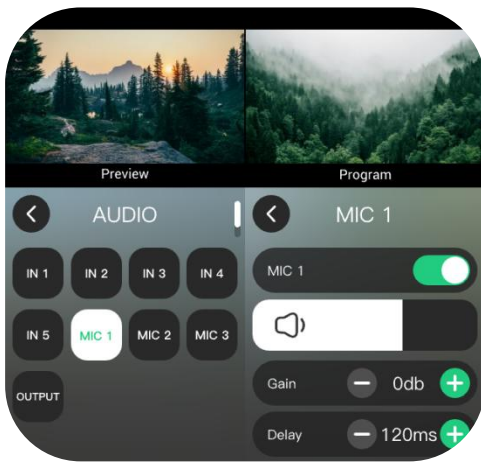
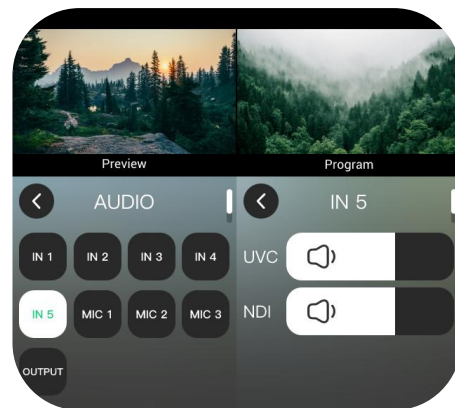
Press "M" Button to start the MENU. Tap "AUDIO" to enter the audio setting interface.



Eight channels are provided for audio mixing, facilitating multiple scenarios.

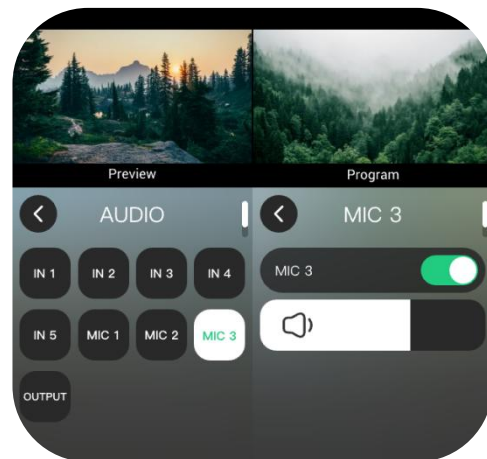
Tap MIC 1, MIC 2, MIC 3, IN1, IN2, IN3, IN4, and IN5 to make detailed settings. The HDMI inputs can be used for mixing, audio following video, or audio shutting down.

Slide the bar to adjust the volume. The NDI bar is not available when there's no NDI decoding.



MIC 1-2 is for setting gain and delay.

MIC3 will display AI mini when AI mini is detected.





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