

mini-edge SDI

10 Channel All-in-One Switcher



Quick Start

Notes:

mini-edge does not have SDI inputs, for any SDI input connection and operation, it is not available for mini-edge.

Need to go with model mini-edge SDI.

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Product Overview

Key Features

- Embedded 5.5-inch monitor
- 10 input connectors (4 x HDMI 2.0, 4 x 3G-SDI, 2K UVC, and 2K NDI)
- 6-CH customizable video inputs
- Maximum 8 channels for audio mixing
- 2-CH independent HD HDMI
- 2K streaming and live via IP and UVC
- Streaming supports NDI | HX2
- Streaming and management via RGBlink TAO Cloud
- Manual real-time control of PTZ cameras, such as zoom in/out, rotation, and focus,

via VISCA or NDI

• Third-party control and integration via free RGBlink Central Control Protocol

Interface Panel



No.	Interface	Description
		UVC audio and video output port.
		• Recognized as a webcam to provide an audio and video source in streaming or
		remote video conference when connected to a computer (via USB-C cable) or an
		Android device (via OTG cable).
		• Connect to a USB camera as the fifth input signal (default function).
		Insert an SSD or U disk for recording.
2	USB-C	Insert a U disk to import audio, video, and graphic files.
		• Network sharing from a cell phone with a USB-C cable connection and also Network
		sharing enable on the cell phone.
3	Ethernet Port	Achieve network connection and camera connection for streaming and remote control.
4	PROGRAM Output	Default to output real-time scenes, and can be set as Multi-view Preview or Test Pattern.
5	MULTI-VIEW Output	Default to a multi-viewer output, and can be set as Program or HDMI 1~4 and SDI 1~4.
6		Four HDMI input channels for connecting HDMI sources.
		• 4K resolution and downward compatible with all resolutions.
7	Locking Hole	Use the T-lock to fix the device.
8	USB-C Power Socket	PD protocol support, 12V 3.3A.

9	Power Switch	Boat-shaped switch. Press downward to turn on the switch.
10	Headphone Output	3.5mm mini-jack for audio monitoring.
1	6.35mm TRS Jack	Balanced TRS audio output.
12	Line-in	Balanced 6.35mm TRS jack to connect to PC, mobile phone, or audio console.
B	MIC in	• XLR+TS input port to connect to microphone.
	• 48V Phantom Power supported.	
		48V Phantom Power switch
+48V DIP Switch	Default to OFF.	
		• Four SDI input interfaces can be connected to HD cameras, computers, and other
	CDI 101 Innute	input sources.
Ð		Input resolution support up to 2K and backward compatible.
		Input supports 3G/HD/SD-SDI.



Layer Settings

Function Settings	Transition
 5.5" HD Screen SHORTCUTS/Number Button MENU/EXIT/LOCK Button Menu Browsing/Confirm Button (ENTER) RECORD Button 	 Transition Effect Selection Button (EFFECTS) Transition Duration Selection Button (DURATION) T-Bar CUT Button AUTO Button
ON AIR Button	Layer Settings
Camera Control	Layout Selection Button (PICTURE-IN-PICTURE) Chroma Key
FOCUS knob with indicator	Layer A/B Button
Toggle (ZOOM in/out)	Preset Loading Button (VIEWS)
• 5-Direction Joystick	PROGRAM Source Row
Volume Control	PROGRAM Layer ButtonPROGRAM FTB Button
Volume Control Knob	PREVIEW Source Row
AFV Button	PREVIEW Layer Button

Function Settings			
Area	Description		
	5.5" HD Screen		
	For showing input, output, recording and live streaming status, and		
	displaying the menu content.		
	SHORTCUTS/Number Button		
	Button Definition		
	○ Shortcuts Button		
	• Number Button		
	Button Color Description		
1 2 3 4 5 6 7 8 9 0	• Button Unlit: no shortcuts saved.		
	• Button Lit White: shortcuts saved.		
	• Button Lit Blue: act as a number button		
	Button Operation		
	• Short Press: to distribute shortcuts.		
	• Interface with Input Box: to input numerical values.		
	MENU/EXIT/LOCK Button		
	Button Definition		
	• MENU Button		
	• EXIT Button		
MENU	◦ LOCK Button		
	MENU Browsing/Confirm Button		
	Button Definition		
	• MENU Browsing Button		
ENTER	• Confirm Button		
LIVILIN			
	RECORD Button		
	• External Hard Disc Status Display		
	\circ Recording OFF: 1) unlit if no hard disc connected; 2) lit white with disc		
	space more than 300M.		
	• Recording ON: button blinks red if space is less than 300M.		
	Press to Enable/Disable Recording		
RECORD	\circ Press to start the recording. Button lit red to indicate normal recording		
	process.		
	\circ Press button again to stop the recording. The Button blinks red to indicate		
	the video-saving process.		

	ON AIR Button
	Network Status Display
	• Streaming OFF: button lit white for normal communication
((0))	• Streaming ON: 1) button blinks red to show failed streaming but normal
	communication; 2) button blinks white to show failed streaming and
	communication; 3) button blinks yellow to show successful streaming with
	unmatched upstream bitrate; 4) button turns green to show successful
	streaming with matched upstream bitrate.
ON AIR	Press to Enable/Disable Streaming
on ran	• Press to start streaming: 1) button lit green to indicate a successful
	streaming; 2) button blinks red to remind the user to configure the streaming
	address.
	• Press once again to stop streaming: 1) button turns red to indicate the
	video-saving process: 2) button goes dark if streaming is completed

Camera Control

Area	Description	
	FOCUS Button with Indicator	
	• Focus Status Display	
\circ	• Manual Focus: indicator unlit.	
	• Auto Focus: indicator lit blue.	
FOCUS	• FOCUS Button	
10005	\circ Rotate the button for manual focus.	
	\circ Press the button for auto focus.	
	Tagela	
	Size adjustment for Lever A and Lever P	
	• Size adjustment for Layer A and Layer B.	
	• Zoom in/out for P1Z control.	
	5-Direction Joystick	
	• Move the joystick up, down, left and right	
	○ to adjuzt position for layer.	
	\circ to set pan, tilt and zoom for a PTZ camera.	
PAN TILT	• Short Press	
	◦ to enter PTZ Control Interface.	
Volume Control		
Area	Description	

	 Volume Control Knob Knob Number 1~4: volume control of HDMI/SDI embedded audio. Other Six Knobs: volume control of MIC, USB Input, Line-in, Bluetooth, Headphone Out and Program Out. 		
AFV	AFV Button Button Color Description Button Unlit: AFV off. Button Lit White: AFV on. Button Operation Short Press: enable/disable AFV. Long Press: to enter AUDIO		
	Mute Button • Button Color Description • Button Unlit: MUTE off. • Button Lit Red: MUTE on. • Button Operation • Short Press: enable/disable MUTE . • Long Press: to enter AUDIO.		
Transition			
	 Transition Effect Selection Button Default: MIX, fade in/out. For more transition effects, tap the "EFFECTS" on the MENU to select. Button Lit White: a transition effect selected. 		
0.5 1.0 1.5 2.0 DURATION	 Transition Duration Selection Button Default: 1.0 second. Button Lit White: a transition duration selected. 		
	■ T-Bar PVW and PGM views can be transitioned by pushing T-bar.		

СИТ	CUT Button Press to fast switch between PVW and PGM views with no transition effect.
AUTO	AUTO Button • Button Operation • Press to automatically transition PVW and PGM views according to the selected duration and transition effect. • Button Color Description • Button Blinks Red: transition is being applied. • Button Goes Dark: transition completed.
]	Layer Settings
Area	Description
E E E E E E E E E E E E E E E E E E E	 Layer A/B Button Button Unlit: layer OFF or not be placed on PVW. Short Press Press the Button Unlit: the button turns blue to indicate an enabled and selected state, which allows the user to use the toggle and joystick for size and position adjustment. Press the Button Lit Blue: to disable the selected layer and the button turns dark. Press another layer button except the Layer A/B button: the button pressed turns blue and the Layer A/B button changes from blue to green. Long Press: to enter LAYOUT. Layout Selection Button Short Press: to set the layout for the selected layer, and the button turns green. Long Press: to enter CROP/SCALE.
	 Chroma Key Short Press: to enable or disable Chroma Key (layer B is set by default). Long Press: to enter the Chroma Key interface.
1 2 3 4 5 6 7 6 9 0 Views	 Preset Loading Button Button Color Description Button Unlit: no view contained. Button Lit Green: view contained. Button Lit Red: view being loaded. Button Operation Long Press: to save the current view or not. Short Press the Button Lit Green: to place the view on Preview, after which this button turns red. If you switch to another view, the button of the loaded view changes from red to green.

	PROGRAM Source Row		
	• Button Definition		
	• Button 1~4: 1~4 HDMI/SDI inputs.		
PROGRAM	• Button 5: UVC/NDI/MEDIA Source.		
	PROGRAM Layer Button		
	• Icon Description		
	• 🖾 indicates BACKGROUND.		
	\circ indicates LOGO.		
	• Dindicates OVERLAY.		
	Button Color Description		
	• Button Unlit: no layer contained.		
PROGRAM	• Button Lit White: layer contained.		
	• Button Lit Red: Program out layer.		
	Button Operation		
	\circ Button Lit White: to place layer on PGM out, and the button turns red.		
	\circ Button Lit Red: to remove the layer from the PGM out, and the button		
	turns white.		
	PROGRAM FTB Button		
	Button Operation		
	\circ Press Button Unlit: to fade the current source to black, and the button		
	turns red.		
	• Press Button Lit Red: to act in reverse from black to the currently selected		
	source, and the button goes dark.		
	PREVIEW Source Row		
	Button Definition		
	• Button 1~4: 1~4 HDMI/SDI inputs. If you use a PTZ as an input, the		
PREVIEW	TALLY light will turn green.		
	• Button 5: UVC/NDI/MEDIA Source.		
	PREVIEW Layer Button		
	• Icon Definition		
	• E indicates BACKGROUND.		
	• Li indicates LOGO.		
	• Lindicates OVERLAY.		
	Button Color Description		
	• Button Unlit: no layer.		
	• Button Lit White: layer contained.		
PREVIEW	• Button Lit Blue: Layer enabled on PVW and selected.		
	• Button Lit Green: Layer on PVW but not selected.		
	• Button Operation		
	• Long Press: to enter Media Interface.		
	• Short Press: 1) to enter Media Interface or not if no layer is contained; 2)		
	to remove the layer from PVW, after which the button turns white. The		
	button turns blue during the layer-adding process.		



Using mini-edge SDI

Adding Background

Inserting a U Disk

Insert a U disk into the USB port labeled number 1 to import background sources.





Entering Background Interface

The user can gain access to the Background Interface through the following methods:

1. Long press the **BKG** button along the **PREVIEW Outputs Row**.

2. Use **ENTER** knob to move the cursor to the **BKG icon** in source selection area, and press **ENTER** knob again to enter.

Adding Background Source

Please follow the steps below to add background Source.

1. Rotate **ENTER** knob to select background source saved in the U disk;

2. Use **ENTER** knob to move the cursor to "+", and press **ENTER** knob again to choose whether to add the source to source selection area;

3. The operations above also indicate the preview process, during which the BKG button will turn blue.



Votes:

1. Space and symbols are not allowed in the picture name.

2. Source format: jpg, png (32-bit depth), or bmp (24-bit depth); resolution within 1920x1080, subject to the actual output resolution. Picture size should be consistent with the resolution.



3. Cropping and scaling are not supported.



Enabling Background Layer

If the BKG button along the Program Source Row shines white, press the button to place a background layer on Program screen and the button will turn red.

Press the button lit red to remove it, and the button indicator will turn white.

Adding Layer A



Enabling Layer A

Press Layer A button on the front panel to enable and edit the layer.

Selecting Input Signal

Preview Source row is for selecting the signal source for preview. **Program Source row** is for selecting the signal source for program.

Press number 1~5 along the Preview Source row to select an input source for previewing, after which the selected PVW button will turn green.

Press number 1~5 along the Program Source row to add it to the PGM view and the selected PGM button will turn red.





Adjusting Size and Position

Use the toggle on the control panel for layer zoom-in and zoom-out and the joystick to set the position for more detailed adjustment.

Selecting Layout

The user can gain access to the layout interface through the following methods:

1. Long press Layer A or Layer B button.

2. Press **MENU** button to enter the menu interface. Use **ENTER** knob to move the cursor to **LAYOUT** icon, and press **ENTER** knob again to enter. Select the required layout for Layer A and place it on the background.





Layer Scaling and Cropping

mini-edge SDI supports layer scaling and cropping. Rotate **ENTER** knob to move the cursor to **SCALE or CROP** icon, and press ENTER knob again to enter the interface for more specific parameter settings. Use **ENTER** knob to browse through items and then do settings by using the toggle on the control panel.

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Adding Layer B



Selecting Layout & Setting Parameter

Operations such as layout selection, size and position adjustment, layer scaling and cropping, please refer to Adding Layer A.

Enabling Layer B

Press Layer B button on the control panel to enable and edit the layer.





Using Chroma Key

The chroma key defaults to off.

Press **Chroma Key** button on the control panel to activate the chroma key (performed on layer B by default).

Long press the button to set parameters for the actual use.

Notes: Activating the Chroma Key implies that layer B is turned on simultaneously.

Adding Logo

Inserting a U Disk

Insert a U disk into the USB port labeled number 1 to import logo sources.



Adding Logo Sources

Please follow the steps outlined as follows to add logo Source.

 Rotate ENTER knob to select logo source saved in U disk;

2. Use **ENTER knob** to move the cursor to "+", press ENTER knob again to choose whether to add the source to source selection area;

3. The operations above also indicate preview

process. The Logo button will be illuminated blue.

Notes: Sources should meet the following requirements:

- 1. Space and symbols are not allowed in the picture name.
- 2. png (32-bit depth), resolution within 1920x1080, subject to the actual output resolution.



Entering Logo Interface

The user can gain access to Logo Interface through the following methods:

Long press Logo button along the PREVIEW
 Outputs Row.

2. Use **ENTER knob** to move the cursor to **LOGO** in source selection area, press the knob again to enter.





Selecting Layout

Same as operations in <u>Adding Layer A</u>, choose layout required in LAYOUT interface.



Enabling Logo

Press the Logo button on the front panel to enable it.

If the Logo button along the Program Source Row shines white, press the button to place a logo on the Program screen and the button will turn red. Press the button lit red to remove the logo, and the button indicator will change to white.



Adjusting Position

Use the joystick to fast adjust the horizontal position and vertical position of the logo.

Input Setting

Entering Input Setting

Press Input to enter input sources setting.



□ OVERLAY □ LOGO □ LOGO □ LAYER B □ LAYER B

Select 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 and UVC to select.





NDI

The NDI decorder is not available by default. If the NDI source is needed for IN5, users need to bind mini-edge SDI to TAO Cloud in advance. Note that this is a paid operation.

		3.16	1 IN 1		SDI 1 >
		AP OF	2 IN 2		
	N. N.	Promp	t		
		Switch To The NDI I	nput Interface?		
		NO	YES 5 IN 5		
₿ 50°C € 17:09:56			A		٥



Tap "NDI" and a prompt interface will appear. Tap "Yes" and then you can select or add NDI sources.

Tap "Media" and a prompt interface will appear. Tap "Yes" and insert a U disk, then you can add media materials.

Controlling PTZ Cameras

Controlling PTZ

mini-edge SDI supports simultaneous control of up to four cameras (HDMI1~4 / SDI 1~4) and NDI PTZ.



Check if the port number of the camera is set to 1259. If not, enter the correct port number of the controlled camera.



Setting IP Address Manually

The IP address of mini-edge SDI and the camera controlled should be in the same LAN. Please follow the steps outlined as follows to set the IP address.





Rotate ENTER knob to move the cursor to "IP";
 Press ENTER knob and use the number buttons along the shortcut row to enter the IP address;
 Patter ENTER hashes the research the shortcut to the shortcut

3. Rotate **ENTER** knob to move the cursor to **"Enter"**, then press the knob again to save.

Adjusting Parameters

Adjust focus, position and speed to meet needs.



Saving Scenes

How to Enter Scene Interface

Press **MENU** button to enter menu interface. Use **ENTER** knob to move the cursor to **SCENE** icon, and press **ENTER** knob again to enter.





Saving Scenes

mini-edge SDI allows user to save 10 presets in total. Rotate **ENTER** knob to View 1~10:

1. If the selected window does not contain a preset, press **ENTER** knob to choose whether to form a static picture of the current scene and save it.

2. If the window has stored a preset, press **ENTER** knob to choose whether to delete or overwrite.

Loading and Switching Views

Loading Views

The user can load preset through the following methods:

1. Rotate **ENTER** knob to move the cursor to certain view with saved preset in Scene Interface, then use **ENTER** knob to select "Load" icon for direct loading.

2. Use number 0~9 along the **Views Row** on the control panel. Press button illuminated **Green** can add the preset to Preview screen and then the selected button will turn **Red**. Press other view buttons for signal switch.





Selecting Transition Mode

mini-edge SDI provides two transition modes, including T-Bar PVW Mode and CUT Mode. Tap the **Setting** icon on Menu or Button 8, then

Selecting Transition Effect

17 transition effects are available.

Users can select the transition effect from the EFFECTS menu as shown on the left or from the control panel buttons.

'System' > 'Mode'.

Rotate **ENTER** knob to move the cursor to SETTINGS in Menu, choose a Mode and then press **ENTER** knob for selection.

Notes:

Only the CUT mode supports time setting.





T-Bar Mode

Preview and Program views can be transitioned by pushing T-bar.

CUT Mode

Press number 1~5 along the Preview Source Row or Program Source Row for signal switch.



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Audio

Understanding the Mixer

Default Configuration

Press **MENU** button to enter the menu interface. Rotate **ENTER** knob to move the cursor to **AUDIO** and then press the knob to gain access to audio setting interface.

mini-edge SDI has eight separate inputs for connecting various devices and audio sources: **two XLR/TRS jacks** for connecting microphones, computers and audio consoles; **one USB (UVC) input** supports camera source from RGBlink vue PTZ and webcam; **one Bluetooth channel** for connecting computers and mobile devices wirelessly; **four HDMI / SDI inputs** support embedded audio volume adjustment.





Using the Mute Buttons

The other six knobs below are used for adjusting the volume of MIC, USB Input, Line-in, Bluetooth, Headphone Out and Program Out.

Press the mute button in the top right to mute a channel.

When a channel is muted, the mute button will turn red and the icon on the AUDIO interface will also turn red.



Using the AFV Buttons

The top four knobs are used for volume level adjustment of HDMI / SDI embedded audio. Press **AFV** buttons in the top right to enable the audio-follow-video function, that is, the audio follows the video switch to perform a soft gradual transition when a video is switched.

Activate the AFV function , the button will shine white, and AFV icon on the AUDIO interface will turn green.



Using the Volume Control Knob

mini-edge SDI features eight control knobs for volume adjustment.

The control knobs function like any other mixer: use the knobs to adjust the level for that channel.

The volume of that channel will be mirrored in the virtual fader position on AUDIO.



Using the Mute Buttons

The other six knobs below are used for adjusting the volume of MIC, USB Input, Line-in, Bluetooth, Headphone Out and Program Out.

Press the mute button in the top right to mute a channel.

When a channel is muted, the mute button will turn red and the icon on the AUDIO interface will also turn red.

Understanding the Audio Outputs

Default Configuration

mini-edge SDI comes with two separate outputs, including one headphone output and one program output.





Using Control Knob and Mute Button

mini-edge SDI features two volume control knobs to adjust audio outputs.

Perform the same operations as described before: use the knobs to adjust the volume for the output channel and the volume of that channel will be mirrored in the virtual fader position on **AUDIO**.

Press mute buttons to mute the channel at Program Out or Preview Out. When a channel is muted, the mute button will turn red and the icon on AUDIO will also turn red.

AI mini Identification

AI mini Indentification

mini-edge SDI features MIC1 and MIC2 by default and a MIC3 will be displayed when recognizing a camera signal. Attach the AI mini receiver to the device, the interface will display **AI mini**. If attaching other brand cameras, the inerface will display **MIC3**.



Advanced Function

Noise reduction

mini-edge SDI features noise reduction, functioning on MIC1. Press the icon on the audio setting interface to enter the microphone interface.



select an input and tap **Advanced** to enter the advanced function selection interface.

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Press **Noise Reduction** to activate the function and the icon trun purple..





Slide the bar to adjust the level of noise reduction.

Streaming and Recording

Streaming

Connecting USB for Streaming

The USB port labeled number 2 is for video capture, which allows users to capture videos to computer and the captured video content can be streamed to Facebook, YouTube, Zoom, Twitter and other streaming media platforms via a third-party video media player software like OBS.





To perform live-streaming, users can proceed as follows:

1. Log into Tao Cloud platform and bind the device to the TAO Cloud.

2. Fill in the basic information in any live platform you are ready to stream on, copy the streaming address and streaming key into the TAO Cloud, and tap "Distribute" on the interface.

3. Next, press "ON AIR" on the front panel to start the streaming.

Connecting LAN for Streaming

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



Choose the correct network mode when using the local network for streaming. (Press **MENU** button to enter the menu, then 'SETTINGS' > 'Network' > 'Cable')

E Back information	88 Back function	(9 and	S) Issuer		(ii) tatting	
Push stream address 1			Push stream address 2				
rtmp://mpipush.tao1.infu/live/MINHSO012	140617982100041152%Secret=167/0583+220682	© TAO 💿	mpplie-pushallideoz	onv/live-bic/?streamerame=live_586119100_519	541328key=7fedP5	Olala	

Recording

Connecting a USB Storage Device

mini-edge SDI supports recording streaming media content to an external USB storage device, such as U disk or SSD through the USB port labeled number 1.

- Votes:
- 1. Format the SSD or U-disk before recording.

2. Please remove the SSD or U-dick only after the recording is complete.



TAO Cloud Device Access

Login

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



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





Entering the Management Interface

Click "All Appliances" to check devices already connected to the cloud.

The user can also follow the steps below to bind a new device to the TAO Cloud platform.

Capturing Verification Code

Press **MENU** button to enter the menu. Use **ENTER** knob to click "OUTPUT" > "TAO Cloud" . Follow the steps in the box to get verification code.





Binding a Device

Enter the TAO Cloud homepage.

Click "All Appliances" > "Binding Devices" to enter the interface shown on the left. Enter the device name and verification code, then click "Bind" to confirm.

Checking	Devices
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Devices that have been bound will be displayed in this interface.

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	At Applement	@ testing two
	mini Santan (U) =	
	40-40 D	
	- 1971 	
Chul		
	Denvel + Link + March Gaganine Response Denvel	5441 C 🔘

OVERLAY				SRT
		Viewing Address	S	
				w(2Mbps) 🗦
	htt	ps://www.tao1.info/#/studio, eSig=fa1d63585e36d890ed69	/audience?invi 262d60ad64	Horizontal 🗦
		Confirm		=typed
8 50°C ○ 17,09,56			A	٥

Capturing QR Code

Press **MENU** button to enter the menu. Use **ENTER** knob to click "OUTPUT" > "Stream" . Choose a stream address to obtain the QR code.

Watching Streaming On TAO Cloud

Enter TAO Cloud platform by scanning the QR code. TAO Cloud supports private cloud live streaming and multi-platform streaming.

If you have any questions or need further assistance, go to <u>http://www.rgblink.com</u> and contact us.







Xiamen RGBlink Science & Technology Co Ltd.

- Tel: +86-592-5771197
- Fax: +86-592-5788216
- Customer Hotline: 4008-592-315
- Web: http://www.rgblink.com
- E-mail: support@rgblink.com
- Headquarter: The 6th floor, No. 37-3 Banshang Community, Building 3,

Xinke Plaza, Torch Hi-Tech Industrial Development Zone, Xiamen, China

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