RGBlink®

mini-max

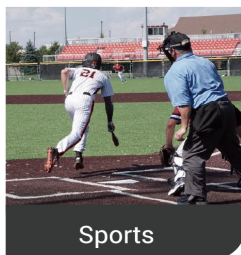### Elevating Content Creation to 4K Excellence

The mini-max 4K All-in-One Video Switcher elevates the mini-series legacy with true 4K operation. It expands upon the mini-edge models with two added 12G-SDI inputs, supporting 4K output, recording, and streaming in one compact unit. A 5.5-inch touchscreen offers multi-view monitoring and menu control, complemented by physical buttons for flexible operation.

With four HDMI 2.0 and two 12G-SDI inputs, plus support for UVC and NDI® sources, it connects seamlessly to a wide range of devices. Dual HDMI outputs allow multi-view or test patterns, and the USB 3.0 port serves as a UVC webcam for direct streaming. Integrated TAO Cloud and Web App support enable remote management and multi-platform broadcasting.
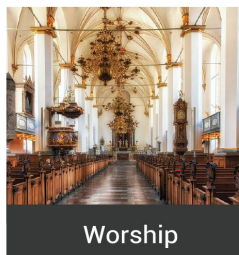
Despite its small size, the mini-max delivers pro features including dynamic output control, audio noise reduction, and PTZ camera control—making it ideal for both live production and remote workflows.
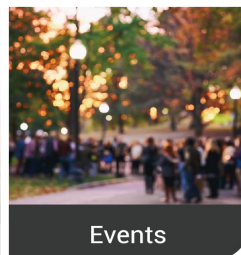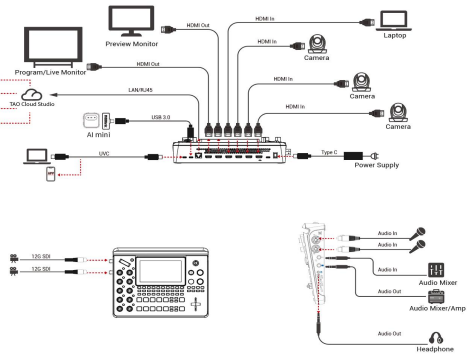
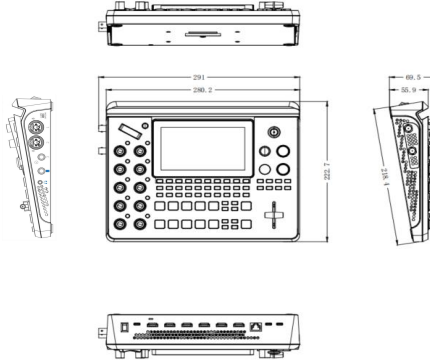| Education | Sports | Worship | Events | Conference |

Key Features

- 5.5-inch touchscreen for icon menu control, preview, and working status display
- 9 input connectors (4 x HDMI 2.0, 2 x 12G-SDl, 2K UVC, MP4, and NDI)
- 6-CH customizable video inputs
- Maximum 8 channels for audio mixing
- 1-CH HDMI 2.0 main output and 1-CH HDMI 1.3 for preview
- Cut mode and preview transition mode support
- USB 3.0 4K recording capability, bitrate up to 32Mbps

- UVC recording which is USB and UAC devices compatible (including AI mini)
- RTMP(s)/NDI streaming via Ethernet port, managed by TAO Cloud
- USB 3.0 UVC 4K capture and outputs via third-party platforms like OBS
- Independent control of PTZ, zoom, and focus of multiple PTZ cameras;
- Chroma key support (green and blue) and Luma key support
- Third-party control and integration via free RGBlink Central Control Protocol

Application

Dimension

unit: mm

Specification

Connectors	Input	HDMI 2.0	4 × HDMI-A
		UVC (4K Webcam)	1 × USB-C
		12G SDI	2 × BNC
		NDI	1 × RJ45
	Output	HDMI 1.3	1 × HDMI-A
		HDMI 2.0	1 × HDMI-A
		USB (4K Record)	1 × USB-C
		USB (4K Capture)	1 × USB-C
		NDI	1 × NDI
	Audio	MIC IN 1	1 × 6.35mm XLR + TS Jack (48V Phantom Power)
		MIC IN 2	1 × 6.35mm XLR + TS Jack
		LINE IN	1 × 6.35mm TRS Jack
		OUT	1 × 6.35mm TRS Jack
			1 × 3.5mm mini-Jack
	Communication/Stream/Upgrade	LAN	1 × RJ45
	Power	Power Supply	1 × USB-C
Performance	Input Resolution	HDMI 2.0 SMPTE	720p@50/60｜1080p@30/50/60｜2160p@30/50/60
		VESA	1024 × 768p@60｜1280 × 720p@60｜1280 × 768p@60｜1280 × 800p@60｜1280 × 1024p@60｜1360 × 768p@60
			1366 × 768p@60｜1440 × 900p@60｜1600 × 1200p@60｜1680 × 1050p@60｜1920 × 1080p@60
			1920 × 1200p@60｜3840 × 2160p@60｜4096 × 2160p@60
		12G-SDI SMPTE	2160p@30/50/60｜1080p@30/50/60
			1080i@50/59.94/60｜720p@50/59.94/60
	Output Resolution	HDMI 1.3 SMPTE	1080p@60
		HDMI 2.0/USB (Webcam) SMPTE	1080p@30/50/60｜2160p@30/50/60
	Video	Video Formats	HDMI 2.0｜HDCP 2.2
		Grayscale/ Video Sampling	HDMI 2.0 Input　　　YUV444｜YUV422｜RGB (8/10/12bit)
			HDMI 2.0 Output　　RGB 8bit
			USB (Record)　　　　YUV420 8bit
		Video Latency	<4 frames
	Audio	Line In Delay	up to 8 frames
		Audio Format	HDMI　　　　Linear PCM, 24 bits/48 kHz, 2 ch
			USB　　　　　Linear PCM, 16 bits/48 kHz, 2 ch
	Record/Storage	Record Formats	MP4
		Disk Formats	FAT32(≤32 GB)｜exFAT(64GB~2T)
	Supported Standards	HDMI	2.0
		USB	3.0
		H.265	ITU-T H.265/ ISO/IEC 23008-2
		NDI	NDI｜HX3
Power	Compatability	USB Power Delivery (PD) 3.0	
	Supported Cables	Certified USB PD Aware	
	Input Voltage	Type-C 12V/3.3A	
	Maximum Power	40W	
Environment	Temperature	0℃~45℃	
	Humidity	10%~85% RH	
Physical	Net Weight	1.48kg	
	Packaged Weight	2.80kg	
	Net Dimension	291.0mm × 222.7mm × 69.5mm	
	Packaged Dimension	332.0mm × 238.5mm × 109.0mm	

Order Codes

Order Codes	Item
230-0012-01-0	mini-max

[1] Recommended but not limited to 2TB.
[2] Simultaneously streaming on multiple platforms depends on the network.