PRELIMINARY



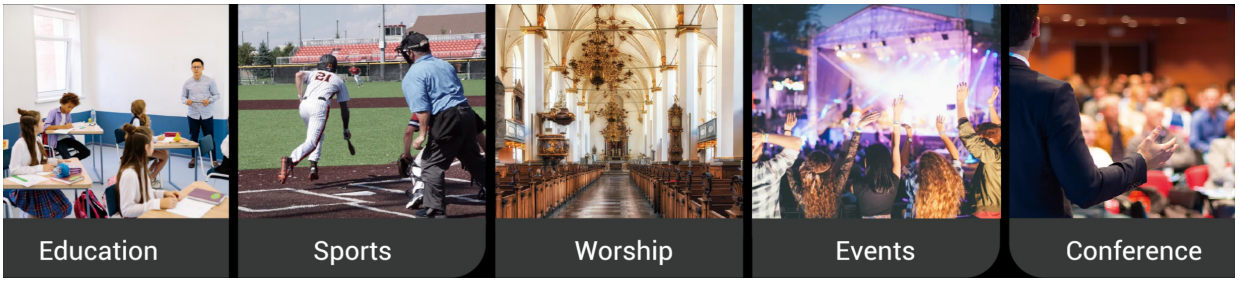
mini-extreme

Elevating Content Creation to 4K Excellence

The mini-extreme 4K All-in-One Video Switcher continues the legacy of the mini-series with powerful 4K performance. Building on the foundation of the mini-max, it retains all their functionalities while introducing a major upgrade:four HDMI 2.0 input and two broadcast-grade 12G-SDI inputs choosing from four 12G SDI interface; in addition to its native 4K60 HDMI outputs. This compact device integrates 4K60 I/O, recording, and streaming into one powerful unit, delivering an exceptional ultra-high-definition visual experience. The responsive 5.5-inch touchscreen enables both menu navigation and multi-view monitoring, while physical buttons provide tactile control for flexible operation across various scenarios.

In terms of source channel , the mini-extreme offers four 4K HDMI 2.0 inputs and two 12G-SDI inputs, along with UVC and NDI® video sources to meet up to 8-ch video source switch. It also supports both digital embedded audio and analog input, covering a wide range of audio and video equipment needs. On the output side, dual HDMI ports support multi-view preview and Program output. The USB 3.0 port enables UVC video capture and can function directly as a webcam for multi-platform streaming. Combined with support for TAO Cloud and the Web App, it enables advanced functions such as remote device management and synchronized live broadcasting.

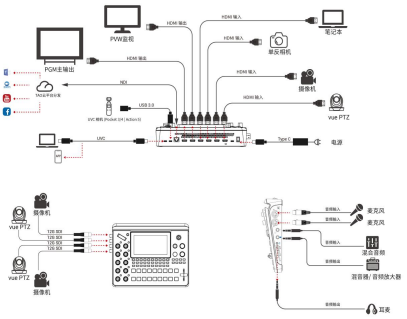
Despite its compact design, the mini-extreme enhances professional capabilities with support for dynamic output control, audio noise reduction, and PTZ camera control—making it a versatile solution for both live production and remote workflows.



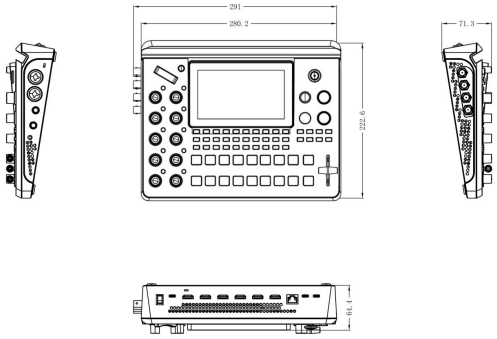
Key Features

- 5.5-inch touchscreen for icon menu control, preview, and working status display
- 8 video input chanels (4 x HDMI 2.0, 2 x 12G-SDI, UVC and NDI)
- Maximum 15 channels for audio mixing
- 1-CH HDMI 2.0 program output and 1-CH HDMI 1.3 for preview
- Cut mode and preview transition mode support
- USB 3.0 4K60 recording capability, bitrate up to 32Mbps
- UVC recording which is USB and UAC devices compatible (including AI mini)
- RTMP/NDI streaming via Ethernet port, managed by TAO Cloud
- USB 3.0 UVC 4K 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	4 × BNC (choose 2)
		NDI	1 × RJ45
	Output	HDMI 1.3 (Multiview)	1 × HDMI-A
		HDMI 2.0 (Program)	1 × HDMI-A
		USB (4K Record)	1 × USB-C (H.264)
		UVC (4K)	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	720p@50/59.94/60 | 1080p@30/50/60 | 2160p@30/50/60
	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	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
		NDI	NDI | HX3
Power	Compatability	USB Power Delivery (PD) 3.0	
	Supported Cables	Certified USB PD Aware	
	Input Power	Type-C 20V/3A	
	Maximum Power	65W	
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
230-0014-01-0	mini-extreme

[1] Recommended but not limited to 2TB.

[2] Simultaneously streaming on multiple platforms depends on the network.

Contact us

Tel：+86-592-5771197

Fax：+86-592-5788216

E-mail：sales@rgblink.com

Headquarter: Room 601A, No. 37-3 Banshang community, Building 3, Xinke Plaza, Torch Hi-Tech Industrial Development Zone, Xiamen, China

RGBlink®

www.rgblink.com