Preliminary



mini-ultra

Elevating Content Creation to 4K Excellence

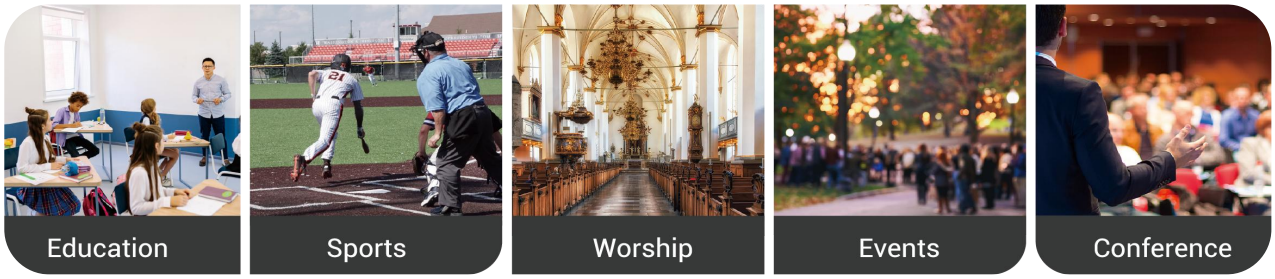
Building on the legacy of the mini series, the mini-ultra marks a leap from FHD to UHD, empowering content creators to effortlessly transition into 4K production and elevate their work to new heights.

The mini-ultra's 4K journey begins with versatile input options, including 2 x HDMI 2.0 inputs, 1 x 4K NDI|HX3 input, 1 × 4K UVC or media input. Seamless content integration is achieved via USB drives or the TAO cloud, offering access to graphics and media assets. Creators can design and customize two live canvas windows, blending media and backgrounds into presets that can be seamlessly switched to Program Outputs.

The output capabilities are equally robust, featuring 2 x HDMI 2.0, 1 x NDI, RTMP(s) for live streaming, 1 x USB 3.X for capture, and 1 x USB 3.0 for recording.

For audio, the mini-ultra offers advanced onboard management with support for 4 digital embedded audio channels and 1 analog input. It includes a professional -grade equalizer, echo effects, fusion processing, and mixing tools for precise sound control. Outputs can be customized with features like AFV (Audio Follow Video) or mute.

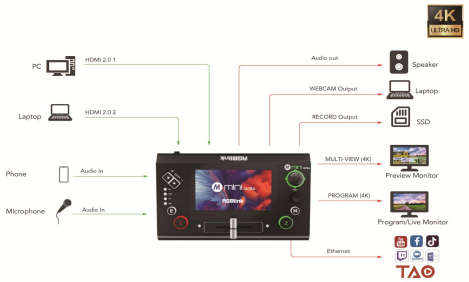
The mini-ultra also excels in PTZ camera remote control, particularly with 4K UHD PTZ cameras. Whether capturing content via HDMI 2.0 or 4K NDI, the mini-ultra delivers unparalleled flexibility and performance for content creators looking to push their craft to the next level.



Key Features

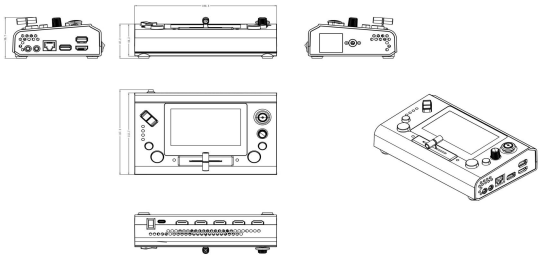
- Mini and convenient to carry
- 4-inch TFT touch screen for icon menu control, preview, and working status display
- USB 3.0 4K recording capability, maximum recording bitrate is 16 Mbps
- 2-CH HDMI 2.0 input, maximum resolution 4K@60, HDCP 2.0 support
- 1-CH 4K NDI / HX3 input and output
- USB 3.0 recording which is USB and UAC devices compatible (for example, AI mini wireless microphone)
- Materials imported via U disk and API protocol can be used as independent background layers
- USB 3. X supports RGB24 / YUY2 / NV12 / I420 / P010 / MJPEG formats, which can be recognized as a camera for live streaming by computers or mobile phones
- Support 4K streaming via RTMP(s) and 4K NDI|HX3
- 1-CH HDMI 2.0 main output and 1-CH HDMI 1.3 for preview
- 2-CH HDMI and NDI support embedded audio and 1-CH external audio mixing
- Independent control of PTZ, zoom, and focus of multiple PTZ cameras; fast view saving and view recall
- Overlay of logo
- Chroma key support, green and blue real-time keying support
- T-bar supports seamless transition between background, 2-CH HDMI 2.0, 1-CH NDI, 1-CH UVC, 2-CH video signals, and multiple background layers; up to 15 transition effects
- Luma key support
- Cut mode and preview transition mode support
- TAO cloud control, compatible with mobile phones and computers

Application



mini-ultra

Dimension



unit: mm

Specification

mini series	mini-ultra		
Connectors	Video Input	HDMI 4K/LOOP	4 × HDMI-A
		UVC (USB Cam)	1 × USB-A (Record)
		Media	1 × USB-A (Record)
		4K NDI|HX3	1 × RJ45
	Video Output	HDMI 2K	1 × HDMI-A
		HDMI 4K	1 × HDMI-A
		USB 4K (Record)	1 × USB-A (Record)
		USB 4K (Stream)	1 × USB-A (Webcam)
		RTMP(s)/NDI	1 × RJ45 (LAN)
	Audio Input	Embedded Audio Input	4 × HDMI-A
		External Digital Input	1 × USB-A
		External Analog Input	2 × 3.5mm mini-Jack
	Audio Output	External Analog Ouput	1 × 3.5mm mini-Jack
	Communication/Stream/Upgrade	LAN	1 × RJ45
	Power	Power Supply	1 × USB-C
Performance	Input Resolutions	HDMI 2.0	
		SMPTE	1280 × 720p@50/59.94/60/100/119/88/120 | 1920 × 1080i@50/59.96/60 | 1920 × 1080p@23.98/24/25/30/50/60/100/120 | 3840 × 2160p@23.98/24/25/29/97/30/50/59.94/60 | 4096 × 2160p@23.98/24/25/29/97/30/50/59.94/60
		VESA	1024 × 768p@60/75/85 | 1280 × 800p@60 | 1280 × 1024p@60/75/85 | 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
		UVC	4K support
	Output Resolutions	HDMI 2.0	1024 × 768@75/85 | 1280 × 800@60 | 1280 × 1024@60/75/85 | 1920 × 1080@23.98/24/25/29.97/30/50 | 3840 × 2160@24/25/30/50/60 | 4096 × 2160@30/50/60
		USB	4K support
	Video	Color Space	Input: RGB 12bit | YcbCr 4:4:4 12bit | YcbCr 4:2:2 12bit
			Output: RGB 8bit
		Video Latency	<3 frames
	Audio	Audio Format	PCM/2ch/24bit/48kHZ
		Sampling Rate	48K
		Bitrate	24bit
	Record/Storage	Record Formats	MP4 (up to 16Mbps)
		Disk Formats	FAT32 | exFAT
	Supported Standards	HDMI	2.0
		HDCP	2.2
		USB	3.0
		NDI	NDI | HX3
Power	Compatability	USB Power Delivery (PD) 3.0	
	Supported Cables	Certified USB PD Aware	
	Input Voltage	12V/3.3A	
	Maximum Power	40W	
Environment	Temperature	0℃ ~ 60℃	
	Humidity	10% ~ 85%	
Physical	Net Weight	0.60kg	
	Packaged Weight	1.38kg	
	Net Dimension	180.5mm × 117.2mm × 47.2mm	

Order Codes

Order Codes	Item
230-0010-01-0	mini-ultra

Specifications are correct at time of printing and subject to change or alteration without notice!

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