



W-R01 Series

Portable Recording and Broadcasting Solution

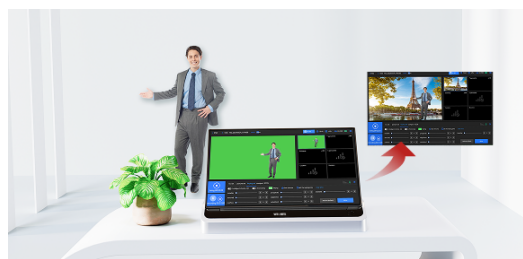


-  Portable design
-  1 TB Storage
-  Quick setup in 5 mins
-  4K Decoding & Display
-  Wireless connection
-  One Package to carry
-  Built-in battery supports 6 hrs Continuously recording



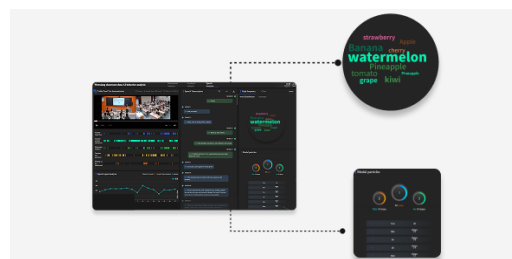
Virtual Micro-class Application

It can automatically identify the keying area, support color picking, and quickly complete keying. It supports keying settings for blue and green backgrounds to realize the production of virtual micro - classes. It supports multi-layer scene superposition, which increases the richness of courseware and improves students' learning initiative.



Powerful Behavior Analysis and Speech-to-Text Conversion

It has a built-in behavior analysis system that supports real-time statistics of students' behavior data. For speech-to-text conversion, it enables real-time subtitles and hotword extraction, without relying on the network or external devices.



AI Tracking Algorithm for Automatic Tracking

Equipped with an advanced AI algorithm, it enables monocular human tracking, allowing for real-time automatic tracking, shooting and composition of human figures.



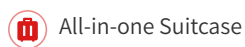
Portable Design

With an embedded architecture design, it integrates functions such as real-time directing, live broadcasting, remote interaction, built-in speakers, wired network, and wireless network.



High Integration, Flexibility and Efficiency

Equipped with an octa-core processor and a Linux system, along with a built-in large-capacity battery, it supports three network connection methods: wired, wireless WiFi, and SIM card. This meets the needs of different scenarios and facilitates convenient use anytime, anywhere.



All-in-one Suitcase



Travel Friendly



Hard-shell and Rolling



layer1



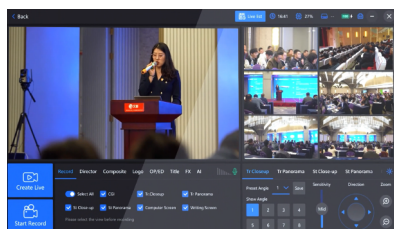
layer2



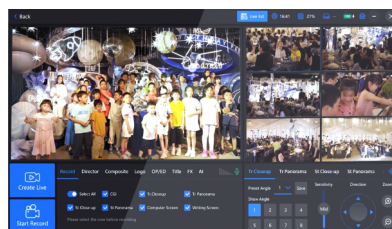
Quick Wireless Connection

Both the portable recording and broadcasting all-in-one machine and the wireless PTZ camera support wireless network transmission. Just place the equipment according to the shooting position, and the equipment can connect automatically after startup. The entire operation process does not require the assistance of others at all.

◆ Usage Scenario



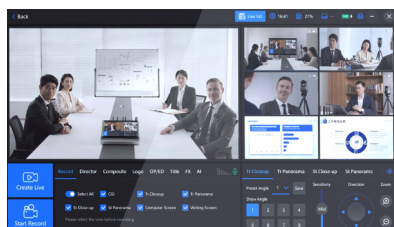
Lecture



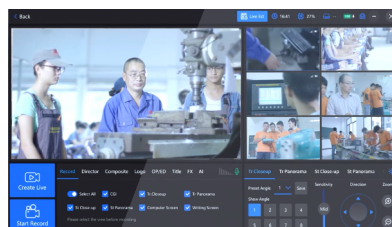
Party



Sports



Meeting



Training



Teaching

Specifcations

Poratable R&B Host

Product configuration	
Processor	RK3588 8-core
Internal Dimension	8G
Memory	1T
System	Linux
Screen Parameters	
Size	15.6 inches
Material quality	Capacitive touch LCD screen
Resolution ratio	1920*1080
Technology	Anti-fingerprint, anti-glare
Function	Gesture screen-off, backlight control

Video coding	
Encapsulation Protocol	H.265 H.264
Recording Resolution	4K resolution (3840*2160)
File format	MP4 FLV TS

Peripheral Interface	
HDMI	HDMI IN*2 HDMI OUT*3
USB	USB 3.0*4 USB2.0*1
RJ45	POE*4 LAN*1
Audio frequency	3.5mm IN*1 3.5mm OUT*1 LINE IN*1 LINE OUT*1
Independent Audio Module	MIC IN*2 LINE IN*2 LINE OUT*2
TYPE C	1
RS232	3
Debug	1
Loudspeaker	Built-in 5W*2

General Specification	
Size	384*313.5*59mm
Net weight	5.28kg
Input voltage	DC48V
Input currenton	3.13A
Battery capacity	12000mAh

PTZ Camera

Image parameter	
Sensor	1/1.8 inch, CMOS, effective pixels: 8.42 million
Camera lens	20×, f = 6.25mm ~ 125mm, F1.58 ~ F3.95
Signal system	4KP30, 4KP25; 1080P30, 1080P25
Scanning mode	Line by line
Digital Zoom	16×
Minimal illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White balance	Automatic, Indoor, Outdoor, One-Click, Manual, Specified Color Temperature

Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Noise-signal ratio	≥ 55dB
Horizontal rotation range	±170°
Vertical rotation range	-30° ~ +90°
Horizontal rotation speed range	2.7° ~ 35.7° /s
Vertical rotation speed range	2.7° ~ 31.5° /s
Horizontal field of view angle	60° ~ 3.5°
Vertical field of view angle	35.7° ~ 2.0°
Horizontal and vertical flipping	Support
Voluntarily ICR	Support
Night vision mode	Support
Freeze frame	Support
Number of preset positions	255
Pre-set position accuracy	0.1°
Lens hood	Support

Peripheral Interface	
USB interface	1 × USB 3.0, Type-C socket
High Definition Output	1 × HDMI 1.4b
Network interface	1 × RJ45:10M/100M adaptive Ethernet port
Audio Interface	1 × LINE IN, 3.5 mm audio interface
Communication interface	1-channel RS485 In (optional): 3-pin Phoenix interface, maximum distance: 1200 meters,
Power interface	JEITA type (DC IN 12V)
Reduction button	Pinhole RESET
Remote Receiver	Supports infrared remote control
Mains switch	Key

Display screen	It display informatio suc a output resolution , batter level wireles signal strength, camera status, and IP address.
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General Specification	
Size	189.3mm*143mm*201.6mm
Net weight	1.9KG
Input voltage	DC12V
Input currenton	3.0A
Battery capacity	9450mAh

Wireless microphone

Microphone Parameters

Display screen	OLED
Transmission mode	2.4 GHz digital frequency band
Operation range (barrier-free)	>100 meters
Frequency response	20Hz-20KHz
Battery Specifications	3.7V/400mAh

Power supply mode	Built-in lithium battery power supply/charging case with contact charging/Type-C charging port (DC 5V)
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Built-in battery life	About 8 hours
Size	56x38x15.5mm

Charged case specifications

Power supply mode	Type-C charging port
Charging case battery capacity	2000mAh
Charging time of the charging case	<3 hours

Number of charge cycles for the microphone	2 times
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Working temperature	0°C-50°C
Storage temperature	-10°C~50°C

General Specification

Weight	0.257kg
Size	123x99.5x38.5mm
Input voltage	DC5V
Input current	1.75A

Omnidirectional microphone (optional)

Sound pickup parameters

Picking distance	Radius: 5 m
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Microphone type

Frequency response	100 Hz to 12 kHz (24 kHz high sampling rate)
Noise-signal ratio	(MEMS unit) 65 dB
Sensitivity	(MEMS unit) -26 dBFS

Amplification Parameters

Voice Channel	1
Power	5W
Impedance	4ohm
Maximum sound pressure level	82dB SPL@1m, pink noise, maximum power
Distortion	≤ 1% @1W, 1kHz
Noise-signal ratio	75dB circuit
Frequency response	120Hz~18kHz

Peripheral Interface

Type-C	1 USB 2.0 port
Key	7 (Microphone, Volume Up, Volume Down, Answer/End Call, Bluetooth, Power, Cascade).

LED lamp	There are notifications (for battery, volume, microphone, incoming calls, etc.)
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Wireless Dongle

Radio Frequency	2.4 GHz digital frequency band
Communicating protocol	Privately-owned
Transmission audio bandwidth	16kHz
Operating distance	10m

General Specification

Overall dimensions of the machine	(Diameter × Height) 126 mm × 126 mm × 34
Net weight	0.40 kg
Cell	4400mAh/3.7V
Charge	5V/1A

