

Premium Recording and Broadcasting Solution



Cameras' angle can be switched randomly



17.3 inch multi-point touch screen with low consumption and high performance



Supports smoothly select and switch the 6 views



Embedded AI tracking algorithm, behaviour analysis and keying



POE camera integrates power supply, control and transmission in one



Embedded architecture design



Wall-mount design

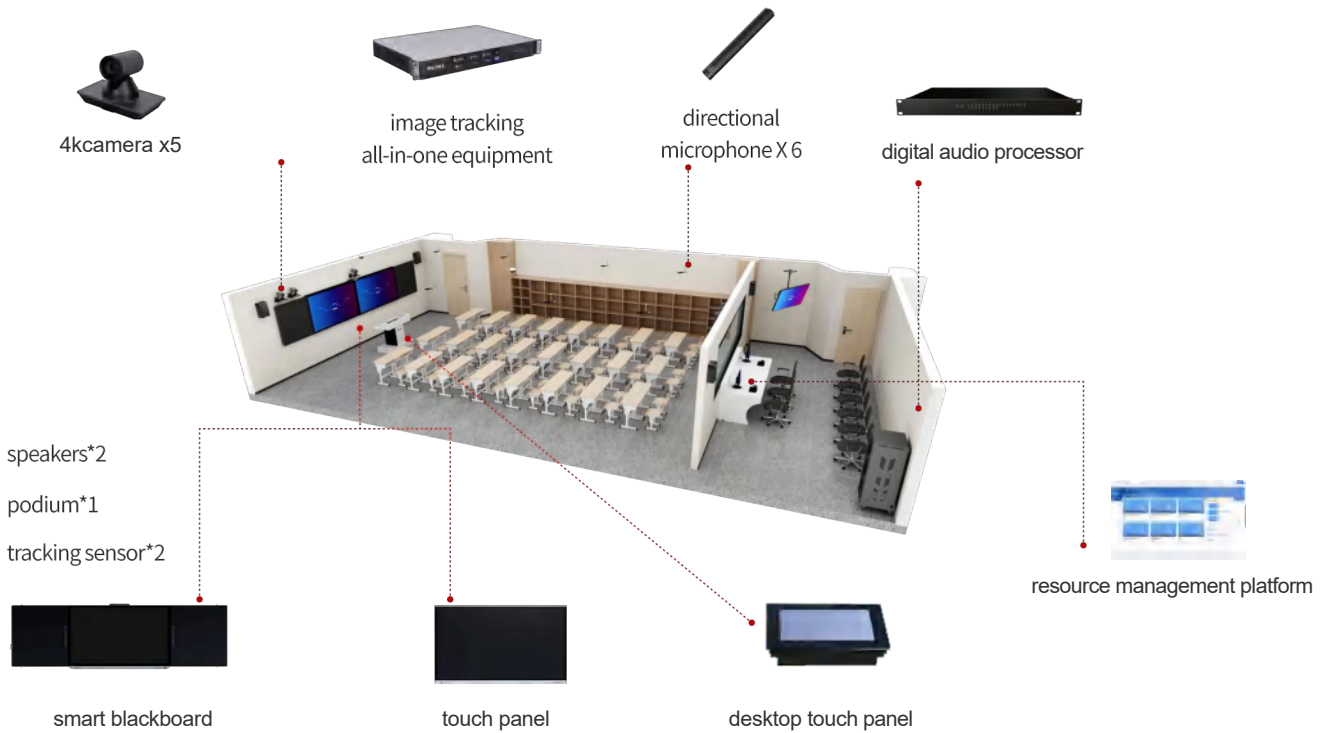


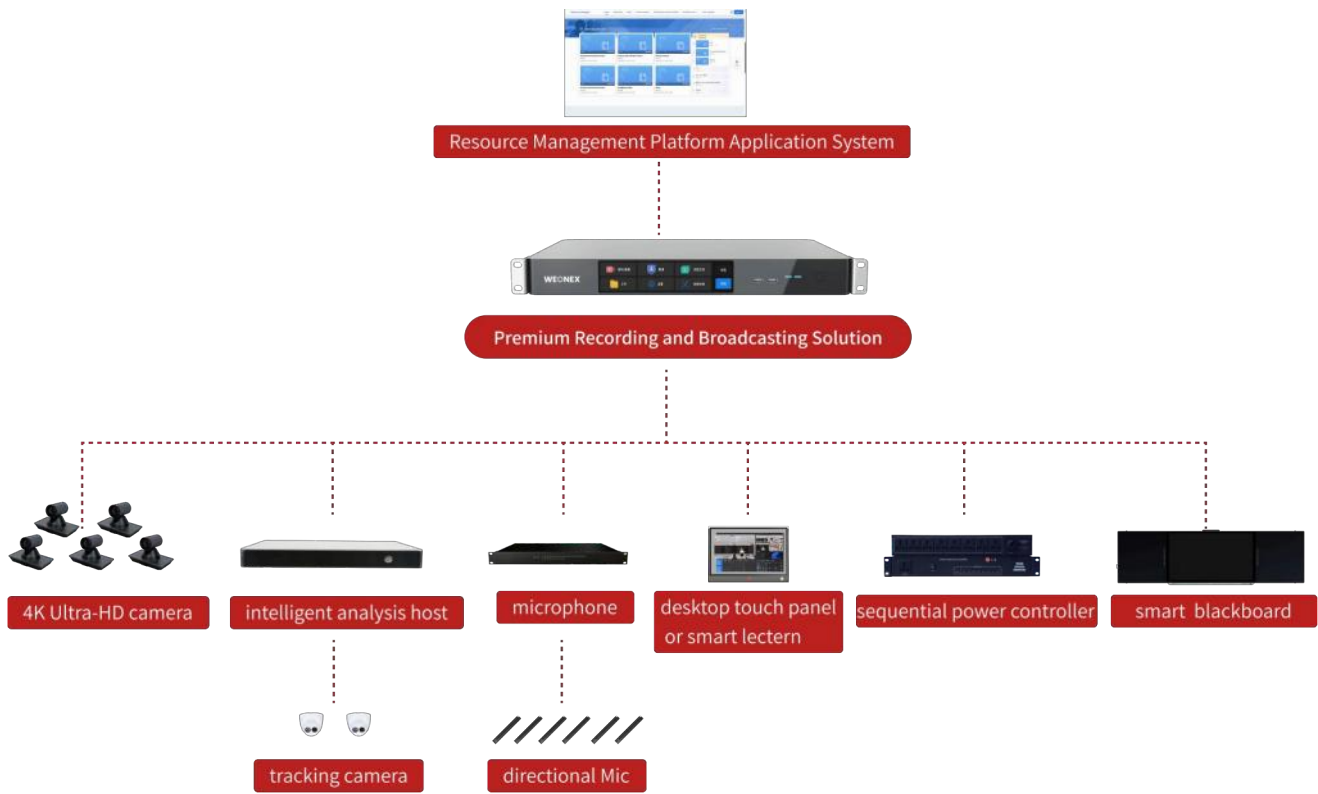


Recording and Broadcasting solution

It adopts an embedded domestic octa-core processor, with video acquisition, transmission, encoding, and recording all meeting the 4K standard. The device highly integrates functions such as multi-party interaction, online directing, synchronous recording, real-time live streaming, virtual keying, and AI analysis, catering to the needs of full-scenario teaching recording, live streaming, teaching research, and interaction.

Premium Recording and Broadcasting solution Topological Graph





High-performance Hardware Architecture

Featuring an octa-core processor and a Linux system, it supports 4K ultra-high-definition recording and integrates 4-channel HD BaseT interfaces to enable 4K uncompressed long-distance transmission. Additionally, dual network cards support the IPv6 protocol, meeting the requirements for multi-channel signal processing.



Intelligent Director and Touch Interaction

Equipped with a 6-inch front-facing touchscreen for real-time device status monitoring, it features functions such as real-time directing, live streaming, remote interaction, speech-to-text & chroma keying, and AI behavior analysis.

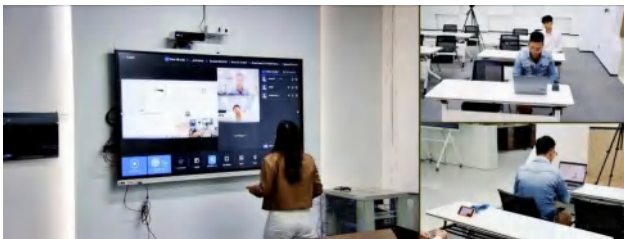


Remote Teaching

It breaks space barriers for efficient teacher-student connectivity and offers full-process interaction for cross-regional teaching, supporting synchronous instruction and enabling remote teaching & interaction.

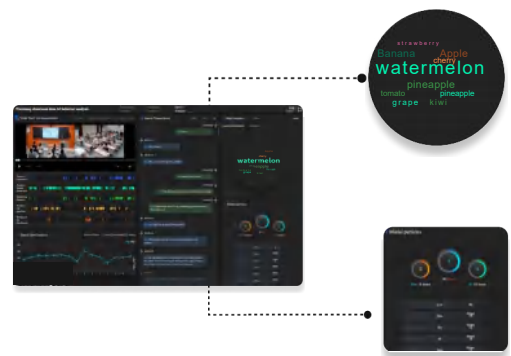
Supports computer, touch panel & mobile access; adapts to diverse devices for delay-free real-time interaction.

One-click video recording & saving; recorded files can be uploaded with one click for easy review.



AI classroom Behavior Analysis

It statistically analyzes students' behaviors such as raising hands and lying on desks in real-time. Speech-to-text conversion synchronously generates subtitles and hotword reports, quantifies indicators like participation and activity levels, and produces visual analysis reports, providing accurate data support for teaching evaluation.

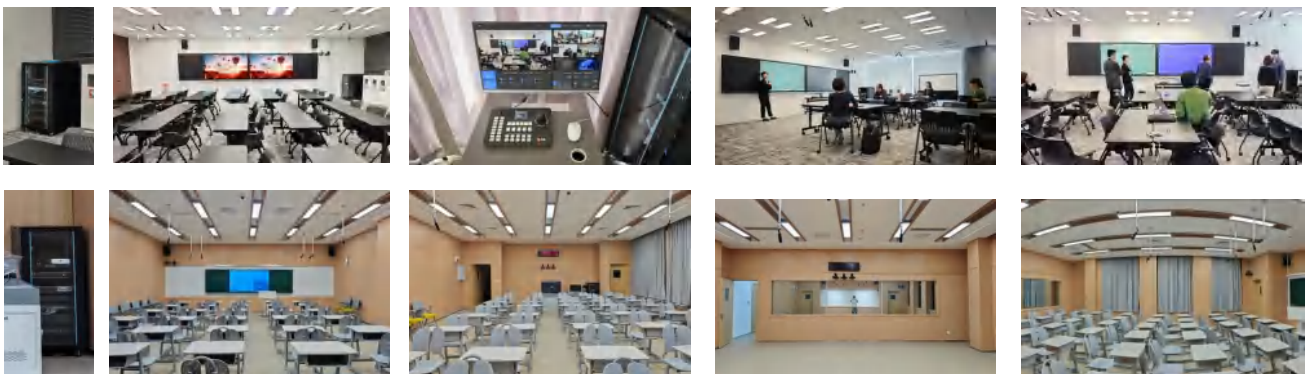


Efficient Data Management and Maintenance

It supports long video segmental recording, cyclic storage (USB drive/hard disk), file recycle bin, and one-click system restoration.

Equipped with a built-in network detection tool, it monitors bandwidth and packet loss rate in real-time, and is compatible with both Chinese and English interfaces, ensuring convenient and secure device operation and maintenance.

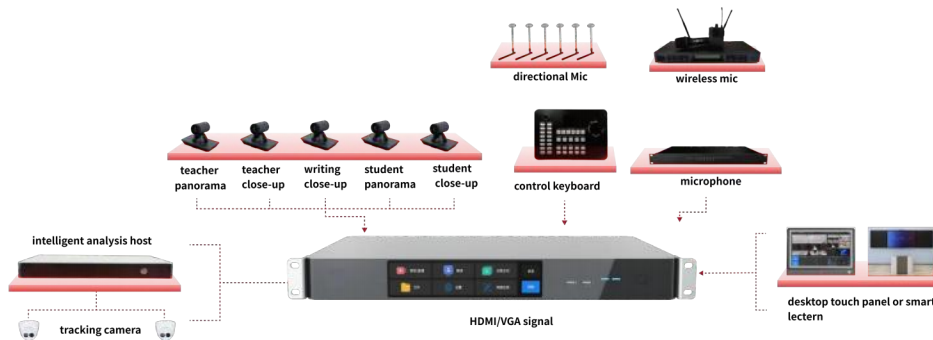
Classroom Installation Cases



Classroom Installation Cases



Specification - Premium Recording & Broadcasting Solution



BOM List

No.	Model No.	Description	Quantity	Unit
1	WX-Z6S	Premium R&B Host	1	Piece
2	WX-AIT5	4K AI Tracking Host	1	Piece
3	WX-RC1204	Audio Matrix	1	Piece
4	WX-PW16	Sequential Power Controller	1	Piece
5	WX-V3000	4K AI PTZ Camera	5	Piece
6	WX-C130	Dome Camera	1	Piece
7	WX-MIC260	Directional Mic	6	Piece
8	WX-WLM300	Wireless Mic	1	set
9	WX-LB60	Speakers	2	Piece
10	WX-PA30	Amplifier	1	Piece
11	WX-RMC300	Keyboard	1	Piece

Overview

All-in-one embedded hardware–software system with AI tracking, real-time directing, live streaming, and remote interaction. Delivers crystal-clear 4K recording and broadcasting on a secure, low-power Linux platform. Ideal for interactive teaching, corporate video conferencing, and high-definition live events.

Functional Specifications

1. Video Recording(Offline & online)

- Recording Modes: Manual, automatic, scheduled.
- Multi-Channel Input: Supports simultaneous recording of multiple video sources.
- Storage: Local storage 2TB with support for file management and export.

2. Live Streaming(online)

- Streaming Protocols: Supports mainstream streaming protocols (RTMP as applicable).
- Platform Support: Pushes live streams to designated platforms and servers in real time.

3.On-Demand Playback(offline & online)

- Upload: Recorded files can be uploaded to on-demand platforms.
- Playback: Supports remote access and review from PCs or mobile devices.



Model No.: WX-Z6S

Description: Premium R&B Host

Quantity: 1 piece



Key Features

- Resolution Support: 4K UHD (3840×2160) recording and playback.
- System Architecture: Embedded all-in-one design with optimized hardware–software integration.
- Multi-Service Integration: Built-in functions for real-time video production, multi-channel synchronous recording, live streaming, on-demand playback, and audio processing.
- User Interaction: Supports logo overlay, subtitles, calendar display, room identifiers, scene switching, and transition effects.
- Ease of Use: Intuitive interface with support for quick setup and simplified operation.

Item	Specification
Main Unit	Embedded all-in-one hardware design
	Processor: RK3588 octa-core
	Operating System: Linux
	Memory: 8 GB
	Storage: 2 TB HDD
Touch Display	6.1-inch touch LCD
	Supports system status display and on-device configuration
Video Inputs	4 × HDBaseT inputs
	4 × HDMI inputs
Video Outputs	HDBaseT: long-distance 4K UHD transmission, no compression, no latency; power/control/signal over single cable
Audio Interfaces	4 × local outputs: 2 × HDMI, 2 × HDBaseT
Network Interfaces	2 × audio input ports
	3 × audio output ports (2 × Phoenix, 1 × 3.5 mm)
USB / Other Interfaces	2 × 100/1000 Mbps adaptive Ethernet ports
	Supports dual-network isolation (LAN & Internet separated)
Control Interfaces	1 × Type-C port
	4 × USB 3.0 ports (supports keyboard/mouse, USB recording/export)
Video Encoding	5 × control ports: 4 × RS232, 1 × RS485
	Supports third-party control & IoT system integration
Network Protocols	H.265 / H.264 encoding
	Supports 4K (3840×2160) video encoding & recording
Physical Specifications	Supports IPv4, IPv6 link address, IPv6 public address
	Supports DHCP auto IP assignment
Notes	Dimensions: 442 × 312.2 × 50.5 mm
	Net Weight: 5 kg
	Type-C and HDMI-IN 1/2 cannot be used simultaneously
	HDMI-IN 3 and HDBaseT-IN 3 cannot be used simultaneously
	HDMI-IN 4 and HDBaseT-IN 1 cannot be used simultaneously

Model No.: WX-AIT5

Description: 4K AI Tracking Host

Quantity: 1 piece



Item	Specification
Rack installation	Standard 19-inch rack-mount design
	Minimalist single-button front panel
Power & Noise	DC 12V safe-voltage power supply
	Fanless, low-power design
	Operating noise ≤21 dB(A)
Processing & Architecture	Embedded system architecture
	Built-in AIoT processor with AI tracking
	Computing performance ≥5 TOPS
Intelligent Director Functions	Teacher tracking
	Student positioning
	Board-writing capture
	Classroom patrol switching
Interfaces	4 × USB ports (supports I/O devices)
	1 × HDMI OUT
Network	1 × LAN port
	Supports HD video transmission over network
	Network-based PTZ camera & recording system control



Model No.: WX-RC1204

Description: Audio Matrix

Quantity: 1 piece



Item	Specifications
Functional Design	Integrated audio DSP + digital power amplifier
Output Power	≥55W (max undistorted)
Frequency Response	20Hz–20kHz (±1.5dB)
THD	≤0.5% @1kHz
SNR (A-weighted)	≥93dB
Gain Deviation	≤0.2dB
DSP Processing	Quad-core DSP, 64-bit, ≥1GHz (max 1.3GHz), delay ≤8ms, 48kHz sampling, ≥24kHz bandwidth
Audio I/O	16-in, 16-out
Mic Inputs	8 × 48V phantom power (software- controlled)
Analog Inputs	6 differential inputs
Analog Outputs	10 differential outputs
Digital Audio	1 × USB stereo I/O
Speaker Outputs	4 channels
Built- in Amplifier	4 × 60W @6Ω
Control Interfaces	USB serial; LAN serial
Input Channel Features	Level meter; 5 input types; 0–255ms delay; ducking; 30- band GEQ + 8- band PEQ
Output Channel Features	3 output types; limiters; 0–255ms delay; 30- band GEQ + 8- band PEQ
User Modes	4 factory + 4 user modes
Gain Control	Mic ADC 0–35dB; DAC 0–127 levels; noise suppression 0–18; reverb 0–4; clarity 0–10
AEC	512ms tail; 60dB attenuation; convergence 100dB/s; 16 levels; delay 4–255ms
AFC	16 adaptive filters; adjustable; gain improvement ≥15dB
AGC	–24 to +24dB adjustable
AI Noise Reduction	AI- based ANS, max suppression ≥36dB
Tuning	Supports feedback, mic, and AEC tuning
One- Click Tuning	Automatic AI tuning with speaker test tone
Audio Matrix	Configurable routing matrix
Acoustic Monitoring	Real- time noise, SNR, and RT60
Pickup Range	Ceiling mic coverage ≤3.5dB variation within 8m
Dimensions	430 × 200 × 45 mm
Net Weight	2.46 kg



Model No.: WX-PW16

Description: Sequential Power Controller

Quantity: 1 piece



Item	Specifications
Maximum Total Current	15 A
Maximum Current per Channel	13 A
Relay Maximum Current	30 A
Output Channels	8 Controlled, 2 Pass-through
USB Output	5 V / 1 A
Display	2.4" LCD Screen
Communication	RS232, Ethernet
Cascading Support	Up to 255 Units

Model No.: WX-V3000

Description: 4K AI PTZ Camera

Quantity: 5 pcs



Key Features

- 4K Ultra HD, Equipped with a new-generation SONY 1/2.5" 8.51MP CMOS sensor, delivering 4K (3840x2160) high-resolution video; downward compatible with 1080p/720p.
- HDBaseT Transmission, Supports uncompressed 4K video over CAT5e/6 cabling up to 100m, carrying video, audio, control, and PoE via standard RJ45.
- Multiple 4K Outputs, Simultaneous 4K output via HDBaseT, HDMI, and IP streaming.
- 12x 4K Lens, High-quality 8MP ultra-wide lens with 12x optical zoom.
- Low-Light Performance, High SNR CMOS + 3D noise reduction ensures clean images under low illumination; SNR ≥55dB.
- Remote Control, Supports RS232/RS485 for VISCA / Pelco-D / Pelco-P control.



Item	Description	Specifications
Camera	Image Sensor	1/2.5" CMOS, 8.51MP
	Scan Mode	Progressive
	Optical Zoom	12× (f=4.4–52.8mm, F1.8–F2.6)
	Digital Zoom	16×
	Minimum Illumination	0.5 Lux (F1.8, AGC ON)
	Shutter Speed	1/30–1/10000s
	White Balance	Auto / Indoor / Outdoor / One-Push / Manual
	Backlight Compensation	Supported
	Noise Reduction	3D DNR
	SNR	≥55dB
	Horizontal FOV	71° – 8.2°
	Vertical FOV	42.7° – 4.5°
	Pan Range	±170°
	Tilt Range	–30° to +30°
	Pan Speed	1.7°–76°/s
	Tilt Speed	0.5°–15°/s
	Flip / Mirror	Supported
	Image Freeze	Supported
	PoE	Supported
	Presets	255
Preset Accuracy	0.1°	
Network	Bitrate Control	VBR / CBR
	Audio Codec	G.711A, AAC
	Audio Bitrate	96 / 128 Kbps
	Protocols	TCP/IP, HTTP, RTSP, RTMP/RTMPS, ONVIF, DHCP, SRT, GB/T 28181, Multicast
Interfaces	HDMI Output	1× HDMI 1.4b
	HDBaseT	1× RJ45 (video / audio / PoE / control)
	Audio Input	1× Line In / Mic In (3.5mm)
	Network Port	1× RJ45 (10/100/1000M, PoE)
	RS232 In	8-pin Mini-DIN, up to 30m (VISCA/Pelco-D/Pelco-P)
	RS232 Out	8-pin Mini-DIN, for VISCA daisy-chain
	RS485	2-pin Phoenix, up to 1200m
General Specifications	Power Input	DC 12V (JEITA type)
	Power Input	DC 12V
	Current	1.0A (max)
	Power Consumption	12W (max)
	Operating Temperature	–10°C ~ 40°C
	Storage Temperature	–40°C ~ 60°C
	Dimensions	238(W) × 166.35(H) × 131.8(D) mm
Net Weight	1.35kg	



Model No.: WX-C130

Description: Dome Camera

Product Overview: Part of tracking system for image capture

Quantity: 2 pcs



	Parameter	Specifications
Image Sensor	Sensor Type	1/2.8" CMOS
	Effective Pixels	2 Megapixels
	Maximum Resolution	1920 × 1080
Low Illumination Performance	Minimum Illumination (Color)	0.01 Lux
	Minimum Illumination (B/W)	0.001 Lux
	Minimum Illumination (IR On)	0 Lux
	IR Illumination Distance	Up to 50 m (Infrared)
Lens	Lens Type	Manual Zoom
	Focal Length	2.8 mm – 12 mm
Video Compression	Compression Standards	H.265 / H.264 / H.264B / MJPEG (Sub-stream only)
	Smart Encoding	H.264: Supported / H.265: Supported
Audio	Audio Input	1 × RCA
	Audio Output	1 × RCA
Power	Power Supply	DC 12V / PoE
Applications	Indoor and outdoor video surveillance	
	Schools, enterprises, campuses	
	Retail and commercial security	
	Remote monitoring and safety management	



Model No.: WX-MIC260

Description: Directional Mic

Quantity: 6 pcs



Item	Specifications
Transducer Principle	Capacitor (Condenser)
Acoustic Type	Pressure + Pressure-Gradient Combination
Directivity	Cardioid
Sensitivity	-38 dB ± 3 dB (1V/Pa, 1kHz, 2V/2.2kΩ)
Frequency Response	20-18,000 Hz
Maximum SPL	120 dB (THD ≤ 1%)
Operating Voltage	48V
Operating Current	≤ 8 mA
Weight	3.3 g
Operating Temperature	-10°C to +75°C
Relative Humidity	45%-75%
Atmospheric Pressure	86-106 kPa
Dimensions	140 × 21 mm

Model No.: WX-WLM300

Description: Receiver + Handheld Microphone + Bodypack Transmitter

Quantity: 1 Set



	Item	Specifications
Receiver Specifications	Installation	Standard rack-mount design; UHF high-band transmission
	Frequency Range	640-690 MHz
	Channel Count	200 channels
	Frequency Generation	PLL synthesized
	Receiving Method	Superheterodyne, dual-conversion
	Pilot Tone	Digital pilot
	Sensitivity	-96 dBm
	Audio Response	30 Hz - 18 kHz
	THD	≤0.5%
	Audio Output	Balanced / Unbalanced
	Output Impedance	600 Ω ±10%
	Total Harmonic Distortion	<0.5% @ 1 kHz
	Power Supply	DC 12V / 1A

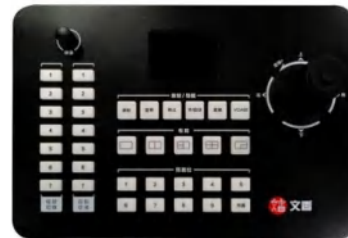


Handheld Microphone Specifications	Power Supply	2 × AA batteries (1.2V/1.5V)
	Operating Frequency	640–690 MHz
	Frequency Stability	±1 ppm
	Max RF Output Power	10 dBm
	Modulation	FM
	Frequency Generation	PLL synthesized
	Microphone Type	High-fidelity dynamic
	Sensitivity	–53 dB @ 1 kHz
	Frequency Response	30 Hz – 18 kHz
	Polar Pattern	Cardioid
	Pickup Type	Dynamic
Bodypack Transmitter Specifications	Power Supply	2 × AA batteries or Ni-MH rechargeable batteries
	Battery Life	Approx. 8 hours
	Operating Frequency	640–690 MHz
	Max RF Output Power	10 dBm
	Audio Frequency Response	60 Hz – 20 kHz

Model No.: WX-RMC300

Description: Keyboard

Quantity: 1 Set



Item	Specifications
Network Control	Supports IP-based network control with independent IP address
Joystick	Variable-speed 4-axis joystick for PTZ camera rotation and lens zoom
Preset Control	9 preset buttons per camera; presets can be set via joystick or keyboard
Speed Adjustment	Proprietary knob with stepless speed control for pan/tilt and zoom
Camera Management	Supports adding 1–6 IP cameras via IE browser (IP & port)
Layout Control	5 layout buttons for recording system layout switching
Video Switching	7 video switch buttons for backup/source video selection
PTZ Switching	7 buttons for PTZ camera control
Director Functions	5 buttons: record, pause, stop, manual/auto, live, VGA lock
Buttons	Silicone keys with backlight; key click sound on/off
Output Interfaces	1 × RS422, 1 × RS232, 1 × LAN



Model No.: WX-LB60

Description: Speakers

Quantity: 1 Set



Parameter	Specifications
Rated Impedance	8Ω
Rated Power	60W
Max Power	120W
Frequency Response (-3dB)	80Hz–18kHz
Sensitivity	88dB / W / m
Continuous SPL	113dB
Peak SPL	120dB
Dispersion (H × V)	90° × 50°
Driver Units	LF: 6.5" ×1; HF: 2" ×1

Model No.: WX-PA30

Description: Amplifier

Quantity: 1 unit



Parameter	Specifications
Audio Inputs	2 × Line Inputs, 2 × Mic Inputs
Audio Outputs	1 × Pre-record Output; A/B Speaker Outputs
Effects	Feedback suppression; Reverb; Independent Mic/Line Volume Control
Mic Control Interface	Supported; 6V Phantom Power
Rated Power	Stereo 2 × 60W / 8Ω
Frequency Response	20Hz–20kHz (+1/−3dB)
Input Sensitivity	Line: −12dB ±1dB; Mic: −34dB ±1dB
Tone Control (Line)	Treble 10kHz, Bass 100Hz, ±10dB (±2dB)
Tone Control (Mic)	Treble 10kHz, Bass 100Hz, ±10dB (±2dB)
Line Output Level	L/R ≥ 0dB
THD	≤ 0.5%
SNR (Mic Off, Flat)	≥ 80dB
Power Supply	AC 220V / 50Hz



