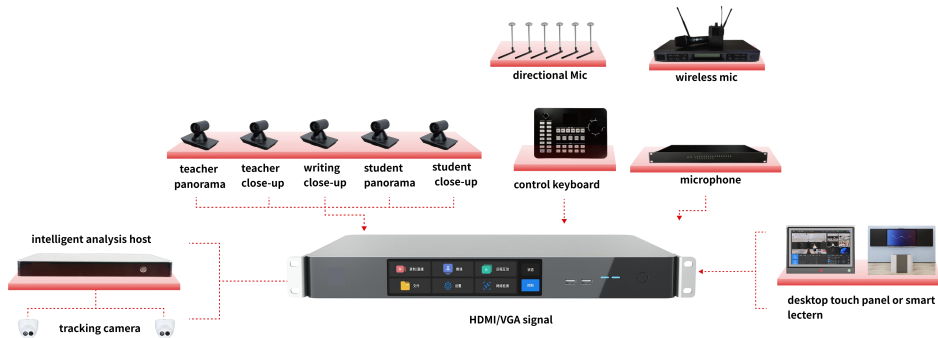




Specification - Premium Recording & Broadcasting Solution



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	2	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, calender display, room identifiers, scene switching, and transition effects.
- Ease of Use: Intuitive interface with support for quick setup and simplified operation.

Specification

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
	HDBaseT: long-distance 4K UHD transmission, no compression, no latency; power/control/signal over single cable
Video Outputs	4 × local outputs: 2 × HDMI, 2 × HDBaseT
Audio Interfaces	2 × audio input ports
	3 × audio output ports (2 × Phoenix, 1 × 3.5 mm)
Network Interfaces	2 × 100/1000 Mbps adaptive Ethernet ports
	Supports dual-network isolation (LAN & Internet separated)
USB / Other Interfaces	1 × Type-C port
	4 × USB 3.0 ports (supports keyboard/mouse, USB recording/export)
Control Interfaces	5 × control ports: 4 × RS232, 1 × RS485
	Supports third-party control & IoT system integration
Video Encoding	H.265 / H.264 encoding
	Supports 4K (3840×2160) video encoding & recording
Network Protocols	Supports IPv4, IPv6 link address, IPv6 public address
	Supports DHCP auto IP assignment
Physical Specifications	Dimensions: 442 × 312.2 × 50.5 mm
	Net Weight: 5 kg

Notes

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

Specification



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

Specifications





Item	Specification
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



Specification

Item	Specification
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 (3840×2160) 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.
- 12× 4K Lens, High-quality 8MP ultra-wide lens with 12× 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.

Specification

Item	Description	Specification
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
	Power Input	DC 12V (JEITA type)
General Specifications	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 piece



	Parameter	Specification
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

Specification



Item	Specification
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

Specification



	Item	Specification
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

Specification



Item	Specification
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



Specification

Parameter	Specification
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



Specification

Parameter	Specification
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

