

Portable Recording and Broadcasting Solution



Portable Design



1TB storage



5mins Quick Setup



4K Decoding & Display



Wireless Connection

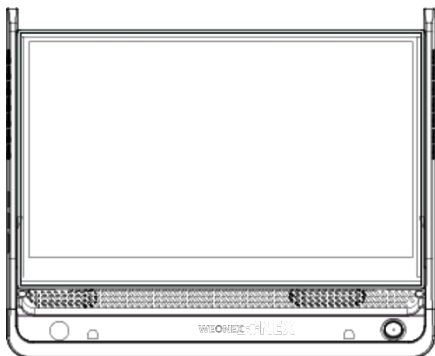


One Package to Carry



Built-in battery. 6hrs continuously recording





Portable Recording and Broadcasting Solution

This solution is a highly flexible and portable video recording and broadcasting solution that integrates lightweight recording hosts, wireless cameras, wireless microphones, and other devices. It eliminates the need for complex wiring and fixed venues, enabling rapid deployment in various scenarios such as classrooms, conference rooms, and outdoor locations. It caters to needs like temporary course recording, event documentation, and mobile live streaming. With its features of easy portability, simple operation, and quick setup, it effectively breaks through spatial limitations and provides an efficient and convenient implementation method for diverse video recording and broadcasting requirements.

Composition of the Solution

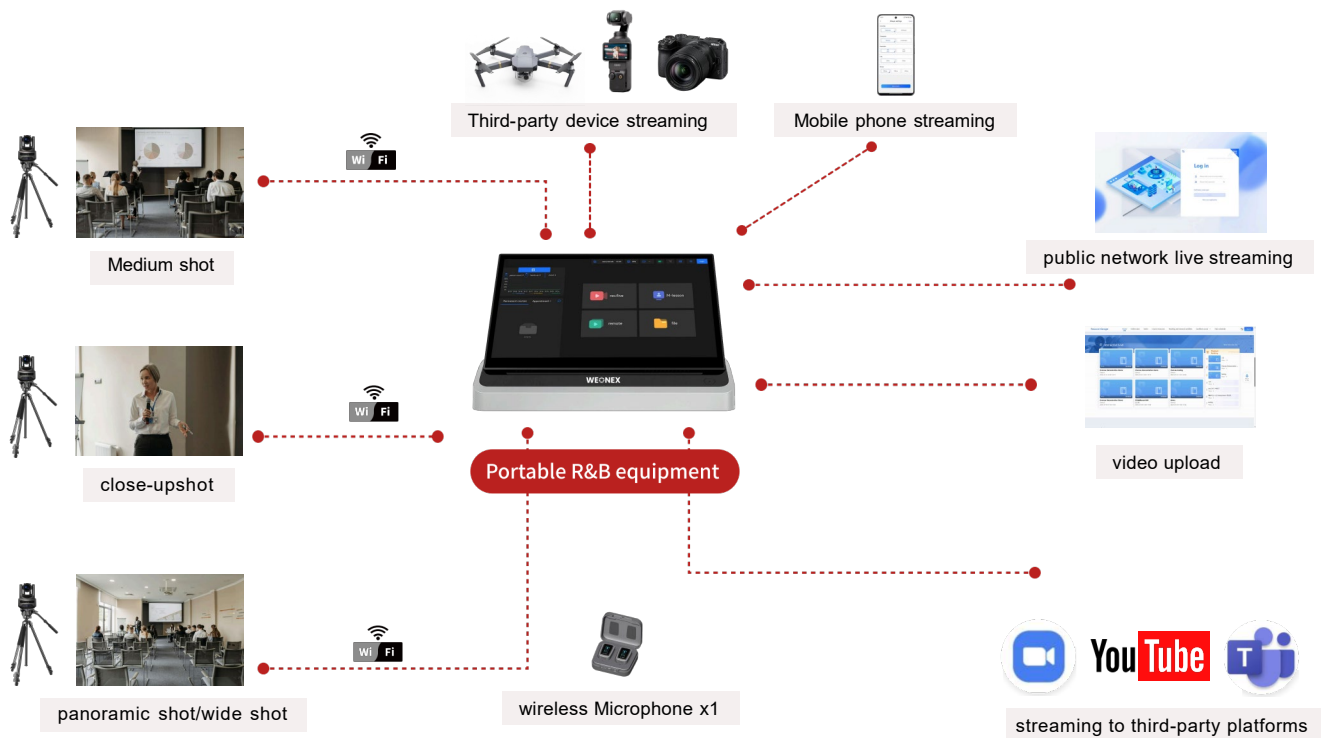
Through its comprehensive online solution, WEONEX enables seamless integration with Teams, Zoom, YouTube, and its proprietary interactive platform, delivering an immersive and highly engaging experience for remote teaching and dual-teacher classrooms.



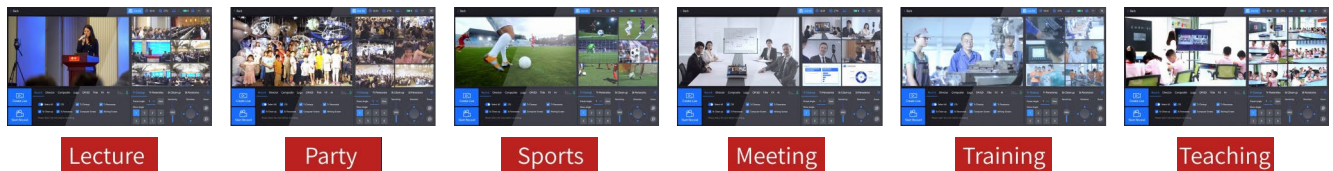
- 
1 portable R&B Host
- 
2 PTZ camera x 3
- 
3 wireless Microphone x1
- 
4 Movable aviation case X 1



Topological Diagram



◆ Usage Scenario



Easy Stream Recording and Broadcasting System

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.

Multi-Source Terminal Pull Stream

The system features multi-source terminal streaming and a flexible first-person teaching perspective, equipped with cutting-edge video processing technology. Its strong compatibility supports seamless connection with various devices such as DJI drones, mobile cameras, professional cameras, and smartphones.

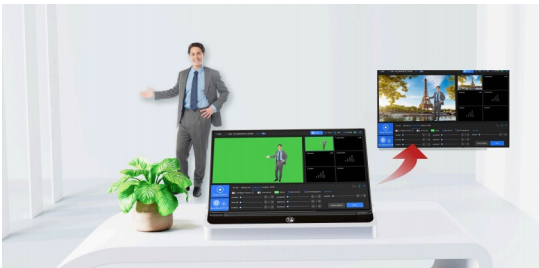


Third-Party Conference Software Application

It supports the UVC protocol, and can output the video screen to PC-based devices such as laptops for collection through the high-definition interface of the recording and broadcasting host, and meeting users' conference direct connection needs.

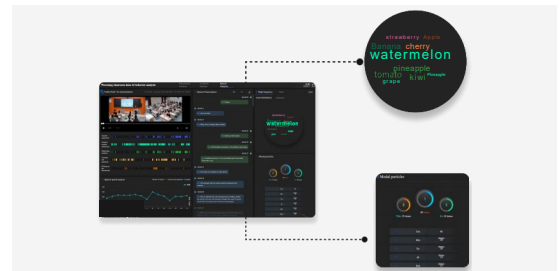
Virtual Micro-Class Application

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 Behaviour 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.







Intelligent Operation and Convenient Management










It is equipped with a 15.6-inch touchscreen, adopting a high-brightness LCD screen to ensure visibility both indoors and outdoors. It supports multi-finger gesture operations, allowing direct playback of recorded videos and file copying without the need for external devices.

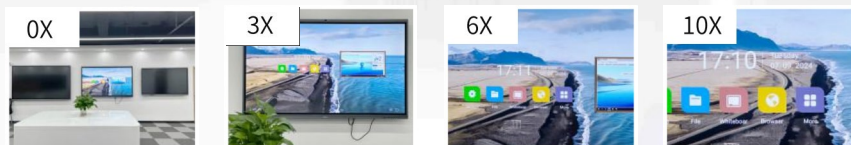
Rich Interface and Expandability

It is equipped with a variety of input and output interfaces, supporting HDMI audio, USB, Ethernet port, etc., to meet the connection needs of diverse devices.

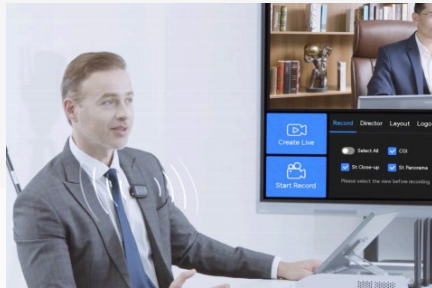
- 
 15.6 inches
- 
 Multi-Finger
Gesture Operation
- 
 recorded
videos
- 
 file
copying



-  4K AI Tracking
-  Long and stable transmission range(150m)
-  Built-in battery supports 8 hrs continuously working
-  4K Resolution(3840*2160)
-  20x optical zoom
-  4K De coding&Display
-  wireless wifi connection
-  8M Pixel
-  4K EPTZ



- Type-c power supply, 5+ hours play
- 360 degree omni directional sound pickup
- Wireless WiFi connection
- 8 meters sound pickup range with noise reduction



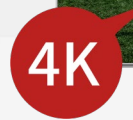
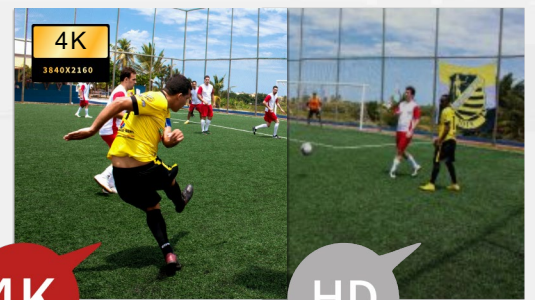
Quick Set-up

It can also achieve quick setup in complex environments, completely eliminating the trouble of deploying wires. The transmission distance reaches 200 meters, which can be flexibly used both inside and outside the venue.



Efficient Encoding, High-Definition Recording

It supports H.265/H.264 encoding and 4K resolution, providing efficient and high-quality video recording and transmission.



- All-in-one suitcase
- Travel Friendly
- Hard-shell and Rolling



layer1



layer2



Description: Portable Recording & Broadcasting Host

Quantity: 1 unit



Technical Specifications

| Category | Item | Specification |
|--------------------------------|-------------------|--|
| I/O Interfaces | HDMI Input | 2 |
| | HDMI Output | 3 (1 local preview, 1 composited) |
| | Audio Input | 1 × linear, 1 × 3.5mm |
| | Audio Output | 1 × linear, 1 × 3.5mm |
| | Control Ports | 2 × RS232 |
| | USB | 4 × USB 3.0 (supports mouse/keyboard, USB storage) |
| | Type-C | 1 port |
| Audio System | Speakers | Built-in 2X 5W speakers |
| Network Configuration | RJ45 Ports | 5 ports (including 4 × PoE) |
| | Camera Networking | Intelligent plug-and-play camera networking |
| Video Encoding | Codec Support | H.265 / H.264 |
| | Max Resolution | 4K UHD (3840 × 2160) |
| Network Protocols | IP Support | IPv4, IPv6 link-local, IPv6 external |
| | DHCP | Supported |
| Built-in Battery | Capacity | 12,000mAh |
| Physical Specifications | Dimensions | 384 × 313.5 × 59 mm |
| | Net Weight | 5.28 kg |
| | Input Voltage | DC 48V |
| | Input Current | 3.13A |





Description: 4K Wireless PTZ Camera
Quantity: 3 units

Technical Specifications

| Category | Item | Specification |
|-----------------|------------------------|---|
| Image | Image Sensor | 1/1.8" CMOS, 8.42MP |
| | Lens | 20× Optical Zoom, f = 6.25–125mm, F1.58–F3.95 |
| | Video Format | 4K@30/25fps; 1080P@30/25fps |
| | Scanning Mode | Progressive |
| | Digital Zoom | 16× |
| | Min. Illumination | 0.5 Lux (F1.8, AGC ON) |
| | Shutter Speed | 1/30s – 1/10000s |
| | White Balance | Auto / Indoor / Outdoor / One-push / Manual / Color Temperature |
| | Backlight Compensation | Supported |
| | Noise Reduction | 2D & 3D |
| | SNR | ≥ 55dB |
| PTZ Performance | Pan Range | ±170° |
| | Tilt Range | -30° to +90° |
| | Pan Speed | 2.7°–35.7°/s |
| | Tilt Speed | 2.7°–31.5°/s |
| | Horizontal FOV | 60°–3.5° |
| | Vertical FOV | 35.7°–2.0° |
| | Flip | Horizontal & Vertical |
| | IR-Cut (ICR) | Auto |
| | Night Vision | Supported |
| | Image Freeze | Supported |
| | Presets | 255 positions |
| Preset Accuracy | 0.1° | |
| Privacy Masking | Supported | |
| Interfaces | USB | 1 × USB 3.0 (Type-C) |
| | HDMI Output | 1 × HDMI 1.4b |
| | Network | 1 × RJ45 (10/100M Ethernet) |
| | Audio Input | 1 × LINE IN (3.5mm) |
| | Control Port | 1 × RS485 (optional), VISCA / Pelco-D / Pelco-P |
| | Power Input | DC 12V (JEITA type) |
| | Reset | Pin-hole RESET |
| | Remote Control | IR remote supported |
| | Power Switch | Button |
| | Display | Shows resolution, battery level, wireless strength, camera status, IP address |
| General | Dimensions | 189.3 × 143 × 201.6 mm |
| | Weight | 1.9 kg |
| | Input Voltage | DC 12V |
| | Input Current | 3.0A |



Description: Wireless Microphone

Quantity: 1 set (2 mic)



Technical Specifications

| | Parameter | Specification |
|----------------------------|---------------------------------|--|
| Wireless Microphone | Display | OLED |
| | Transmission Mode | 2.4GHz digital |
| | Operating Range (Line-of-Sight) | >100 m |
| | Frequency Response | 20Hz–20kHz |
| | Battery | 3.7V / 400mAh |
| | Power Supply | Built-in Li-ion battery / Charging case pogo pins / Type-C (5V DC) |
| | Battery Life | Approx. 8 hours |
| | Dimensions | 56 × 38 × 15.5 mm |
| | Charging Case | Power Input |
| Battery Capacity | | 2000mAh |
| Charging Time | | <3 hours |
| Recharge Cycles for Mic | | 2 times |
| Operating Temperature | | 0°C – 50°C |
| Storage Temperature | | -10°C – 50°C |
| Weight | | 0.257 kg |
| Dimensions | | 123 × 99.5 × 38.5 mm |
| Input Voltage | | DC 5V |
| Input Current | | 1.75A |





Description: Tripod

Quantity: 3 units

Technical Specifications

| Item | Specification |
|-------------------------------------|---|
| Leg Sections | 3 sections |
| Locking Mechanism | Flip-lock |
| Preset Angle Adjustment | Direct deployment |
| Head Screw Interface | 3/8" UNC thread |
| Folded Length | 780 mm (with head) |
| Max Load Capacity | <10 kg |
| Head Movement | Pan: 360°; Tilt: -90° to 55°; Roll: -90° to 45° |
| Extended Height (Center Column Up) | 1860 mm (with head) |
| Working Height (Center Column Down) | 1480 mm (with head) |
| Minimum Height | 720 mm (with head) |
| Net Weight | 2.5 kg |

Description: Portable suitcase



Quantity: 1 unit

Technical Specifications

| Parameter | Specification |
|-------------------|---|
| Material | 5052 Aluminum-Magnesium Alloy, Cross-Pattern Finish |
| Inner Lining | EVA |
| Wheels | ABS + Bearings + PU, Silent Swivel Wheels |
| Corner Protection | Aluminum Alloy + ABS |
| Trolley Handle | Aluminum Alloy |
| Lock | TSA Combination Lock |
| Hinges | Aluminum-Magnesium Alloy + Stainless Steel Pins |

