HUAWEI IdeaHub ES3

Redefining Smart Meetings with Professional Conferencing

VIP meeting experience | Ubiquitous intelligent interaction | Enterprise-level security protection

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The HUAWEI IdeaHub ES3 series boasts an intelligent dual-lens camera, delivering professional video conferences, multi-device intelligent interaction, and enterprise-level security protection. With enhanced HD audio, video, and AI capabilities, it captures every detail and intelligently identifies each need, breaking down communication barriers of time and space. This solution is tailored for executive offices and meeting rooms, helping enterprises realize collaborative smart office, while boosting teamwork productivity.

4K dual-lens camera + 5x zoom

4K dual-lens camera, 100% longer tracking

Intelligent speaker tracking, 60% portrait proportion within 6 meters
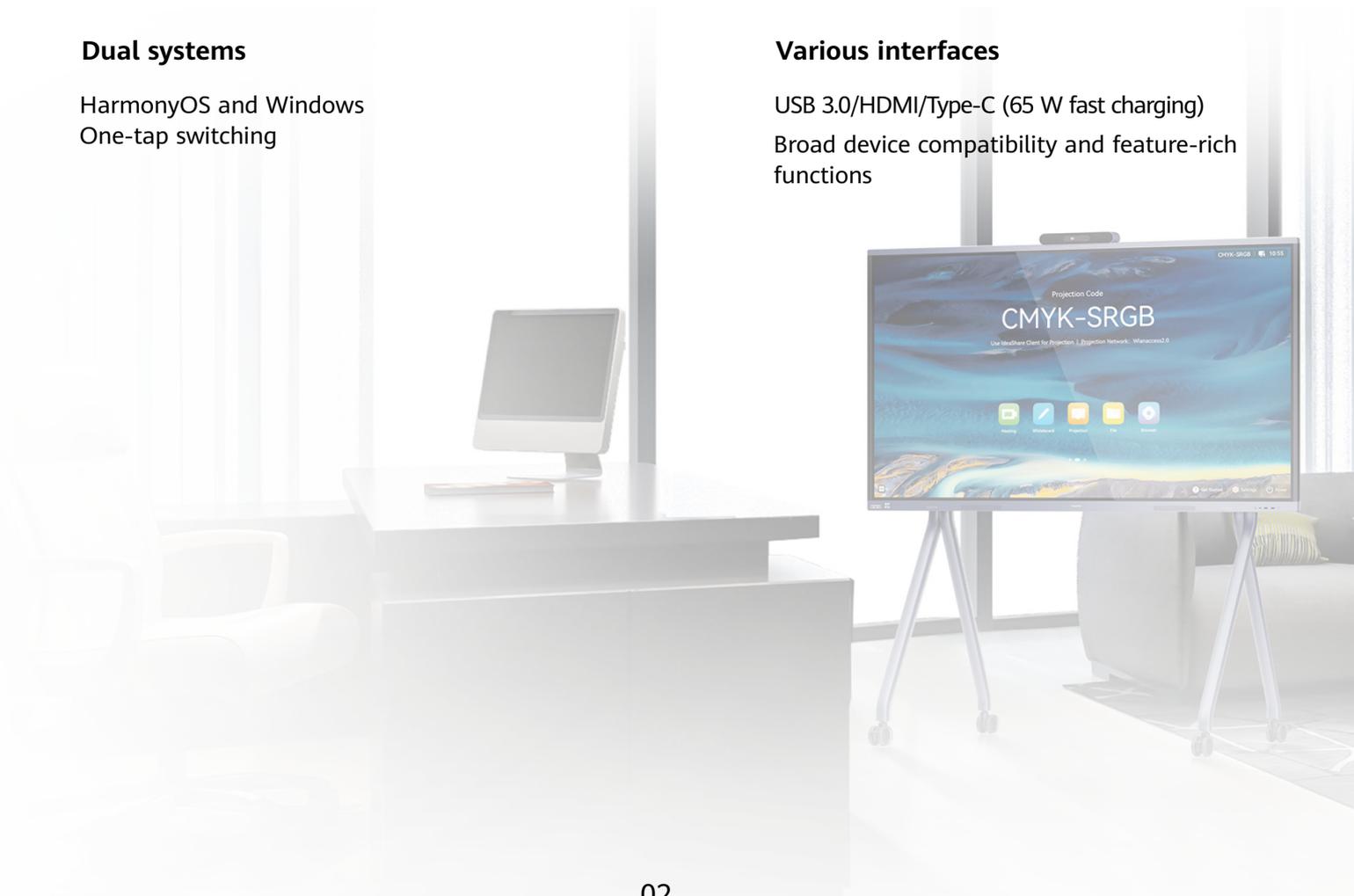
24-mic + 15-meter sound pickup

24-mic array with intelligent noise reduction and multi-channel voice enhancement

Removes noise and improves speech quality for clearer communication

4K soft light screen

Distinct contrast and crystal clear details under any light

Professional eye-care certified by TÜV Rheinland

3D stereo sound

2 x (tweeter + full-range unit) + 1 x woofer

Stereo surround sound for an immersive experience

Dual systems

HarmonyOS and Windows
One-tap switching

Various interfaces

USB 3.0/HDMI/Type-C (65 W fast charging)

Broad device compatibility and feature-rich functions

VIP Meeting Experience

AI vision engine, reproducing true-to-life colors[1]

With an industry-leading super-resolution algorithm, 720p conferences (BYOM or cloud meeting in OPS mode) are intelligently upscaled to near-1080p clarity — making every image sharper and more lifelike for a true face-to-face experience.

BYOM, transfer meetings to the big screen

Transfer a video meeting from your phone or PC to enjoy immersive multi-sensory meetings, made possible by IdeaHub's camera, mic, and speaker systems.

· No apps or OPS
· Support for BYOM via IdeaShare app, Type-C cable, IdeaShare Key,
  or drop-down menu or NFC on Huawei phones

Native HD cloud meeting

OPS-free 1080p cloud meeting
1080p native Huawei Cloud Meeting

4K intelligent meeting

The brand-new H.265 codec offers dual 4K hardware encoding and decoding capabilities at a lower bandwidth, enabling 4K 30 fps HD video and sharing, for clear display of rich details

All-scenario intelligent tracking

Intelligent speaker tracking	Auto-Crop View	Auto-Framing
Automatically tracks the speaker	Intelligently divides participant video into 6 panes	Adjusts the image based on the number of participants for a panoramic view

Notes: [1] The feature is planned for release on December 30, 2025. The exact release time will be subject to the official announcement.

Ubiquitous Intelligent Interaction

9-pane projection for effortless material comparison

Seamlessly display information from phones, PCs, and tablets—including documents, audio, and video—all on one screen. Break down information silos.

· Synchronized multi-dimensional information display
· View/annotate content as you wish
· Automatic layout optimization

Work smarter with ultrasonic projection

No interference from Wi-Fi or Bluetooth signals. Automatically discover devices for one-tap projection, with no need for complex projection codes.

Tailored projection solutions for every conceivable scenario[1]

| IdeaShare app[2] | Seamless HarmonyOS support | IdeaShare Key (Type-C/Type-A) | Type-C/HDMI cable | Miracast projection[3] |

Smart Control 2.0: instant control, flawless precision

Smart Control 2.0 lets you point, swipe, and annotate—seamless control of the IdeaHub, right at your fingertips.

Precise pointing
Precise pointing, with an accuracy of less than 3°@3 m[4]

Ultra-low latency
Quick response (response delay: < 0.06s)[4]

Long battery life
Low-power design, providing 30+ days of usage on a single charge[4]

Notes: [1] You can control your personal devices on the IdeaHub after projection via Type-C/HDMI wired projection, IdeaShare Key, IdeaShare app, or NFC one-touch projection/drop-down menu from your phone. Different devices have different hardware capabilities.
[2] The IdeaShare app's projection code suggestion feature is compatible with HarmonyOS, Android, and Windows.
[3] Miracast supports Android and Windows.
[4] Data comes from Huawei labs. The actual effect may vary due to environmental factors.

Intelligent Whiteboard

Smoother and smarter handwriting

16 ms ultra-low writing latency

AI handwriting prediction algorithm for a smooth writing experience

Intelligent writing

Intelligently recognizes Chinese and English text, as well as shapes

Feels so write

Change colors, line thickness and more as you doodle away on screen

Whiteboard favorites

Save frequently used content to whiteboard favorites in just a tap

Image insertion

Add screenshots to the whiteboard with just a tap in Multi-Window mode[1]

Content saving

Scan the QR code to save whiteboard content right away [2]

Instant writing with stylus[3]

The device automatically enters annotation mode when the stylus touches the screen, allowing direct annotation on documents, images, web pages, and other interfaces. Handwritten marks—such as underlines, circles, and notes—are displayed in real time, improving efficiency.

Notes: [1] In Multi-Window mode, you can tap Annotation from the toolbar to take a screenshot and add it to the whiteboard.
[2] This feature works with WeChat, browsers, Huawei Cloud Meeting SmartRooms, and WeLink.
[3] The feature is planned for release on December 30, 2025. The exact release time will be subject to the official announcement.

Enterprise-level security protection

Access control

Controllable interface permissions
Refined permission granularity

Security control

Separate storage of sensitive data
Randomized distribution of kernel address space

Operation audit

Traceable access records

Comprehensive, intelligent O&M

The IdeaManager device management platform remotely manages and controls multiple IdeaHubs.

Remote management

Remote setting of the shutdown time in batches
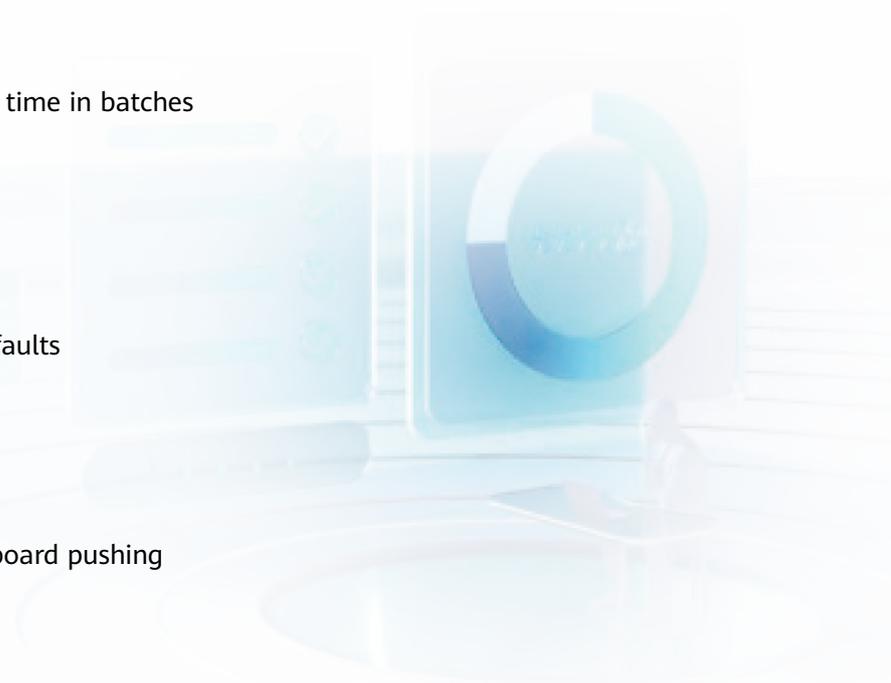Remote OTA update in batches

Quick fault rectification

Inspection and fault alarm
Self-service diagnosis of typical faults

Precise operations

Device usage
Startup animation and bulletin board pushing

Specifications

Product name	Model		
IdeaHub ES3	65": IHE3-65SA	75": IHE3-75SA	86": IHE3-86SA

Dimensions (H x W x D) (mm)	Package dimensions (H x W x D)	Net weight/Gross weight
65": 935.5 x 1484.5 x 91.6 75": 1059.9 x 1705.7 x 91.8 86": 1200.0 x 1953.0 x 91.8	65": 1050 x 1650 x 220 75": 1170 x 1900 x 220 86": 1300 x 2090 x 250	65": 37.0 kg; 47.3 kg 75": 49.5 kg; 61.0 kg 86": 64.4 kg; 78.4 kg

Note: The dimensions and weight may vary with configuration, manufacturing process, and measurement method.

Components

Entire device	Stylus pen	Cable	IdeaShare Key
1	2	1 x power cable	Optional (Type-C/Type-A port)

Rolling stand/Wall-mounted bracket	Smart Control 2.0	MTBF	
Optional	Optional	> 100,000 hours	

Meeting

Supported meeting apps	Meeting performance
On-premises meeting, Huawei Cloud Meeting SmartRooms	On-premises meeting: 1080p 30 fps video + 1080p 30 fps/4K 8 fps content sharing License upgrade: 4K 30 fps video + 4K 30 fps content sharing Huawei Cloud Meeting SmartRooms: 1080p 30 fps video + 1080p 30 fps/4K 8 fps content sharing
Third-party cloud meeting apps	-

Standards & Protocols

Multimedia framework protocols	ITU-T H.323 and IETF SIP
Video codec protocols	H.265, H.264 HP, H.264 BP, H.263 (presentation only), H.263+ (presentation only), H.265 SVC, and H.264 SVC
Audio encoding and decoding protocols	AAC-LD (mono/stereo), G.711A, G.711U, G.722, G.722.1C, G.729A, G.719, and Opus
Dual-stream protocols	ITU-T H.239 and IETF BFCP

Smart Functions

Speaker tracking	Auto-Framing	Acoustic baffle	DNN-based dereverberation
√	√	√	√

Auto-Crop View	AI vision engine*	Instant writing with stylus*	
√	√	√	*The features are planned for release on December 30, 2025. The exact release time will be subject to the official announcement.

Built-in Camera

Zoom	Resolution	Lenses	TV distortion
5x	4K 30 fps	1 x wide-angle + 1 x telephoto	< 2%

Lens material & manufacturing	Aperture	Horizontal field of view	Focus stability
High-end, glass-plastic hybrid lens (4G4P)	Wide-angle: F1.8; telephoto: F1.85	Wide-angle: 80°, telephoto: 65°	Zero focus loss

Built-in Speaker

Frequency domain	Number of units	Total power	
60 Hz to 20 kHz	2 x (tweeter + full-range unit) + 1 x woofer	70 W	

Built-in Microphone

Frequency domain	Number of units	Sound pickup angle	Sound pickup distance
100 Hz to 20 kHz	24	180°	15 m

Automatic gain control (AGC)	Acoustic echo cancellation (AEC)	De-reverberation	AI-powered noise removal
√	√	RT60 ≤1.5s	≥ 300 types

Screen

Resolution	Backlight type	Screen lamination	Optical anti-blue light
4K	D-LED	Zero-gap bonding	Supported
Brightness (typical value)	Max. touch points	Touch response time	Panel type
350 nits	32 (HarmonyOS)/50 (Windows)	≤ 5 ms	IPS

Writing

Latency	Touch sensing distance	Intelligent writing recognition
16 ms	1.5 mm	Supports recognition of Chinese, English, and 11 types of graphics

System

CPU	RAM	Flash	Operating system
8 cores	12 GB	128 GB	HarmonyOS (built-in) Windows (OPS required)

Language

Chinese, English, French, Japanese, Arabic, Spanish, Russian, Portuguese, Italian, German, Thai, Turkish, Bulgarian, Traditional Chinese, Kazakh, Korean, Romanian, Serbian (Cyrillic), and Singhalese

Wireless Connection

Built-in Wi-Fi module	Wi-Fi frequency	NFC	Bluetooth
Wi-Fi 6	2.4 GHz + 5 GHz	√	√

Interface

Front-panel port	Side-panel port		
1 x Type-C 2 x USB 3.0	2 x HDMI IN 1 x HDMI OUT 1 x 3.5 mm LINE IN 1 x 3.5 mm LINE OUT	1 x USB 3.0 1 x Type-C (fast charging supported) 1 x HD-AI	1 x RJ45 (10/100/1000 Mbit/s) 1 x TOUCH port 1 x COM port

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