

HUAWEI IdeaHub ES3

Redefining Smart Meetings with Professional Conferencing

VIP meeting experience | Ubiquitous intelligent interaction | True-to-life visuals



HUAWEI IdeaHub ES3

The HUAWEI IdeaHub ES3 series boasts an intelligent dual-lens camera, delivering professional video conferences and multi-device intelligent interaction. 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

4K soft light screen

Distinct contrast and crystal clear details under any light
Professional eye-care certified by TÜV Rheinland

Dual systems

HarmonyOS and Windows
One-tap switching

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

3D stereo sound

2 x (tweeter + full-range unit) + 1 x woofer
Stereo surround sound for an immersive experience

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 colors¹

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

Automatically tracks the speaker



Auto-Crop View

Intelligently divides participant video into 6 panes



Auto-Framing

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 scenario¹



IdeaShare app²



Seamless
HarmonyOS support



IdeaShare Key
(Type-C/Type-A)



Type-C/HDMI
cable



Miracast projection³

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 m⁴



Ultra-low latency

Quick response (response delay: < 0.06s)⁴



Long battery life

Low-power design, providing 30+ days of usage on a single charge⁴

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 mode¹



Content saving

Scan the QR code to save whiteboard content right away²

Instant writing with stylus³

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.

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

65": 1050 x 1650 x 220

65": 37.0 kg; 47.3 kg

75": 1059.9 x 1705.7 x 91.8

75": 1170 x 1900 x 220

75": 49.5 kg; 61.0 kg

86": 1200.0 x 1953.0 x 91.8

86": 1300 x 2090 x 250

86": 66.3 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

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

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Auto-Crop View

AI vision engine*

Instant writing with stylus*

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*The features are planned for release on December 30, 2025. The exact release time will be subject to the official announcement.

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

Speaker

Frequency domain

Number of units

Total power

60 Hz to 20 kHz

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

70 W

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

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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	
350 nits	32 (HarmonyOS)/50 (Windows)	≤ 5 ms	
Writing			
Latency	Touch sensing distance	Intelligent writing recognition	
16 ms	1.5 mm	Supports recognition of texts and 11 types of graphics	
System			
CPU	RAM	Flash	Operating system
8 cores	12 GB	128 GB	HarmonyOS 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 Sinhalese			
Wireless Connection			
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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Huawei Intelligent
Collaboration official website