

DHI-LPH86-MC470-P

86 inch



Series Overview

The Dahua DeepHub Professional Smart Interactive Whiteboard represents a new generation of smart interactive solutions, featuring a high-performance main controller and a range of intelligent functions. It comes equipped with built-in DeepHub Meeting software, enabling cloud-based online conferencing with real-time collaboration and AI assistance. Utilizing direct-type LED backlight technology, the whiteboard boasts a stunning 4K LCD display available in sizes of 65", 75", 86", and 98". This ultra-thin touchscreen also integrates motorized lenses, speakers, and microphone arrays. With a variety of capabilities, including video conferencing, writing directly on the whiteboard, wireless screen sharing, and the ability to scan codes for easy access to content, the DeepHub provides a seamless interactive experience.

Functions

4K HD Display

With up to 3840 × 2160 resolution, the 4K HD display delivers a clear image in sharp, vivid colors.

AI Recognition of Drawings

Identifies hand-drawn structures such as straight lines, arrow-straight lines, arrow-dotted lines, triangles, parallelograms, trapezoids, rectangles, pentagons, circles, cylinders, pentagrams, semicircles, and ellipse.

Easy to Share

Enhances the experience of sharing files by scanning a code. It automatically determines the network of the device to readily share the QR code across the extranet and the intranet. QR code encryption and extraction are also featured, providing privacy and data security through the required entry of a 6-digit password for verification.

File Management

Supports managing and using Office files, image, video and audio files, and file formats such as PDF and TXT.

- Built-in DeepHub Meeting software for cloud base online conference and with real-time collaboration function.
- (The Meeting software installed on the device includes a one-year usage license, after which a renewal fee will be required for continued use.)
- Displays in 4K Ultra HD and uses 4K UI.
- With its 2 built-in mid-high frequency speakers, and 1 low-frequency speaker, the device supports 2.1-channel audio output. The total power is 60 W.
- Produces vibrant visuals through its high color coverage (90% NTSC High Gamut Screen) and accurate color reproduction ($\Delta E \leq 1.5$).
- Features split screen, and performs screen sharing between the whiteboard and phones, computers, tablets and more devices.
- Microsoft Office and other related software can be installed, and it can play audio and video files in various formats.
- Offers a smooth writing experience through handwriting recognition, pen writing, the fast writing response speed, and pen pressure recognition for a real writing experience.
- Support AI recognition of text and drawings.
- Intelligent pen detection that automatically wakes up the whiteboard for annotations when the pen is lifted.
- Built-in AI 52M camera and 16 array microphone that produces excellent quality visual and audio communication. Supports auto-framing and voice tracking.
- Features sound source positioning.
- NFC and Fingerprint unlock for protection of user information.
- Includes a full-featured Type-C IN port and supports charging through USB PD up to 65 W.

Similar to Real Writing Experience

The electronic whiteboard supports pen-point writing. It comes equipped with specialized pressure-sensitive writing pens, designed to enhance the writing experience. With its soft, comfortable nib, writing on the whiteboard feels natural, similar to the real writing experience.

Text Recognition

Converts written letters into text in real time, using the default font of the system.

Wireless Screen Sharing

In addition to basic file sharing, the device offers wireless screen sharing, interactive operations between two screens, and reverse transmissions. It also supports screen grouping (multiple transmission), host mode (for overall permission control), real-time transmission of images, videos and audios from the wireless camera of the mobile phone to the device, and split-screen mode that displays up to 9 splits on the same screen.

Screen Sharing

The content on your screen can be freely shared with one other device through a wired connection.

Technical Specification

| | |
|------------------|--------------------------------------|
| Built-in System | |
| Operating System | Android 14 |
| CPU | Quad-core A73 + Quad-core A53 |
| CPU Frequency | 2.2 GHz + 2.0 GHz |
| GPU | ARM Mali-G52 MP8 (8EE) |
| RAM | 20 GB (System: 16 GB, Camera: 4 GB) |
| ROM | 128 GB |
| NFC | Supports quick unlock via NFC |

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|-------------------------------------|---|
| Function | |
| Operating System of External Module | Windows 7/8/10 |
| Wi-Fi Hotspot | Dual-band 2.4 G/5 G; supports enabling Hotspot and Wi-Fi at the same time |

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|-----------------------|------------------------------|
| LCD Panel | |
| Screen Size | 86 inch |
| Backlight | DLED |
| Aspect Ratio | 16:9 |
| Brightness | 450 cd/m ² (typ.) |
| Resolution | 3840 (H) × 2160 (V) |
| Viewing Angle | H (178°) / V (178°) |
| Lifespan | ≥50, 000 hr |
| Display Color | 90% NTSC (typ.) |
| Refresh Rate | 60 Hz |
| Static Contrast Ratio | 1200 (typ.) |
| Response Time | 8 ms (typ.) |

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| Camera | |
| Camera | Android: Photo: 52 MP; Video: 8 MP Windows: Photo: 8 MP; Video: 8 MP |
| Auto Control | Auto flip; Auto white balance |
| Distortion | −8.6% |
| Max. Resolution | Photo: 9632 (H) × 5418 (V); Video: 3840 (H) × 2160 (V) |
| Storage | 8GB eMMC |
| Field of View | H: 87°; V: 49°; D: 99° |
| Face Detection | Yes |
| Digital Zoom | Yes, supports up to 9x digital zoom. |

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| Device Ports | |
| Light Sensor | 1 |
| Front Button | 1 × power button (right side) |
| Front Ports | 1 × USB 3.2 Gen1 (left side) |
| Network Port | 1 × RJ-45 |
| Wi-Fi | Yes, 1 × Station, 1 × AP |

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|------------------------------------|---|
| Wi-Fi Standard | Station: 802.11b/g/n/a/ac AP: 802.11b/g/n/a/ac/ax |
| Wi-Fi Frequency Range | 2400–2483.5 MHz, 5150–5350 MHz, 5470–5725 MHz, 5725–5850 MHz |
| MAX Power Transmission (Wi-Fi) | ≤20 dBm@2400–2483.5 MHz; ≤23 dBm@5150–5250 MHz; ≤20 dBm@5250–5350 MHz; ≤27 dBm@5470–5725 MHz; ≤14 dBm@5725–5850 MHz |
| Bluetooth | Yes |
| Bluetooth Standard | BR/EDR/BLE, BT5.3 |
| Bluetooth Frequency Range | 2400–2483.5 MHz |
| MAX Power Transmission (Bluetooth) | ≤20 dBm@2400–2483.5 MHz |
| RFID Modulation Method | ASK |
| RFID Frequency Range | 13.56 MHz |
| MAX Power Transmission (RFID) | 42dBuA/m @10 m |
| USB | 3 × USB 3.2 Gen1 Type-A; 1 × Micro USB 2.0 |
| RS-232 | 1 × DB9 port, male connector |
| Video Input | 2 × HDMI 2.0 (4K@60 Hz) |
| Video Output | 1× HDMI 2.0 (4K@60 Hz) |
| Audio Output | 1 × 3.5 mm Line Out port; 1 × SPDIF port |
| Others | 1 × Touch port |
| IrDA | 1 |
| Microphone | 16 arrays |
| Type-C Port | 1 × Type-C IN (DP IN (4K60 fps) + USB 3.2 Gen1 HOST+ USB 2.0 Device (touch) + PD 65 W) |

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| Touchscreen | |
| Response Time | ≤3.3 ms |
| Touch Technology | Infrared |
| Touch Points | 32@Android, 50@windows |
| Valid Touch | 1.5 mm (0.06") (over 90% touch area) |
| Writing Mode | Finger + Pen (attaches magnetically) |
| Anti-light Interference | Anti-dazzle tempered glass |
| Surface Hardness | ≥9H |
| Touch Resolution | 32767 × 32767 |
| Number of Multi-user Writing Points | 10 points (over 90% touch area) |

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| Speaker | |
| Number of Cavities | 3 |
| Frequency | 150 Hz–20 kHz |
| Power | 2.1 channel, front-end 2 × 20 W + rear-end 20 W |
| Built-in Speaker | 3 |

Fingerprint

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|------------------------|-----------|
| Fingerprint Capacity | 100 |
| Fingerprint Resolution | 160 × 160 |
| FAR | <0.001% |

Microphone

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| Pick-up Distance | Far-field sound pickup: 8 m–12 m (26.25 ft–39.37 ft) |
| Number of Microphones | 16 arrays |
| AGC | Yes |
| Echo Cancellation | Yes |
| Polar Pattern | Omnidirectional |
| Intelligent Noise Filtering | YES |

General

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|---------------------------|--|
| Power Supply | 100–240 VAC, 50/60 Hz |
| Power Consumption | 425 W (basic), 500 W (max) |
| Operating Temperature | 0 °C to +40 °C (+32 °F to +104 °F) |
| Storage Temperature | –20 °C to +60 °C (–4 °F to +140 °F) |
| Operating Humidity | 10%–90% (RH), non-condensing |
| Storage Humidity | 10%–90% (RH), non-condensing |
| Product Material | Metal casing |
| Protective Glass | 3.2 mm Anti-dazzle tempered glass |
| Casing Color (Frame/Rear) | Black on the left and right, Starry Gray on the top and bottom. |
| Product Dimensions | 1,955.3 mm × 93.3 mm × 1,232.2 mm (77.00" × 3.67" × 48.55") (L × W × H) |
| Frame Size | Top border: 28.6 mm (1.13"), left and right borders: 17.9 mm (0.70"), bottom border: 69.6 mm (2.74") |
| Packaging Dimensions | 2,090 mm × 227 mm × 1,315 mm (82.28" × 8.94" × 51.77") (L × W × H) |
| Net Weight | 73 kg (160.94 lb) |
| Gross Weight | 86.5 kg (191.80 lb) |
| Holes Distance | 800 mm × 400 mm (31.50" × 15.75") |
| Installation | Wall mount; mobile bracket |
| Standby Power Consumption | ≤0.5 W |
| Packing List | 1 × Smart interactive whiteboard 1 × Power cord 2 × Stylus pen 1 × Quick start guide 1 × Wall mount bracket 1 × Remote control 1 × Legal and Regulatory Information 1 × Wall-mount screw pack |
| Glass Thickness | 3.2 mm (0.13") |

Ordering Information

| Type | Model | Description |
|------------------------------|-------------------|------------------------------------|
| Smart interactive whiteboard | DHI-LPH86-MC470-P | 86 inch |
| Accessories (Optional) | DHI-SP-PI7C75IS | Open Pluggable Specification |
| | DHI-SP-PI5C72IS | Open Pluggable Specification |
| | DHI-PKP-WP1B | Wireless transmitter |
| | DHI-SP-PI7C72IS | Open Pluggable Specification |
| | DHI-PKC-MS1C | Mobile Stand |
| | DHI-SP-PI5C82IS | Open Pluggable Specification |
| | DHI-SP-PI7C82IS | Open Pluggable Specification |
| | DHI-PKC-WM1A | Omnidirectional Digital Microphone |
| | DHI-SP-PI5C75IS | Open Pluggable Specification |
| | DHI-PKC-MS2B | Mobile Stand |
| | DHI-PKP-UC10A | USB Camera |
| | DHI-PKP-IP1A | Smart Pen |
| | DHI-PKC-MS1A | DHI-PKC-MS1A |

Accessories

Optional:

DHI-PKC-MS1A
DHI-PKC-MS1ADHI-PKC-MS1C
Mobile StandDHI-PKC-MS2B
Mobile StandDHI-PKC-WM1A
Omnidirectional Digital
MicrophoneDHI-PKP-IP1A
Smart PenDHI-PKP-UC10A
USB CameraDHI-PKP-WP1B
Wireless transmitterDHI-SP-PI5C72IS
Open Pluggable
SpecificationDHI-SP-PI5C75IS
Open Pluggable
Specification

Optional:



DHI-SP-PI5C82IS
Open Pluggable
Specification



DHI-SP-PI7C72IS
Open Pluggable
Specification



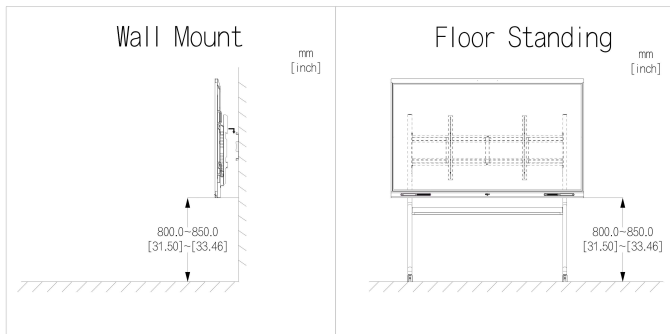
DHI-SP-PI7C75IS Open Pluggable Specification



DHI-SP-PI7C82IS

Open Pluggable Specification

Panels



Dimensions (mm[inch])

