

# DHI-LPH86-MC420-C

# 86 inch Smart interactive whiteboard



#### **Series Overview**

Dahua DeepHub Classic Smart Interactive Whiteboard is a new generation of smart interactive whiteboards that have a high performance main controller and multiple intelligent functions. It adopts direct-type LED backlight technology and has a 4K LED display that is built of anti-dazzle tempered glass with a hardness of 7 on the Mohs scale. The display comes in 65", 75", and 86". This ultrathin whiteboard supports up to 10 multi-user writing points and is equipped with a 52 MP lens, speakers, 8 microphone arrays, and is touchscreen. It offers various functions such as video conferencing, writing on the whiteboard, wireless screen sharing and allows you to scan codes to access content on the whiteboard.

## **Functions**

## 4K HD Display

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

#### Al Recognition of Drawings

Identifies hand-drawn structures such as straight lines, arrowstraight 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 that offers online conferences and customizable support for real-time collaboration.
- · Displays in 4K Ultra HD and uses 4K UI.
- With its 2 built-in mid-high frequency speakers, the device supports 2.0-channel audio output, and its total power is 40 W.
- Produces vibrant visuals through its NTSC High Gamut Screen that
  offers wide color coverage up to 90% and its advanced technology
  that produces accurate color reproduction of ΔE≤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, its fast writing response speed, and pen pressure recognition.
- · 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 8 array microphone and AI 48M camera that supports 9× zoom, produces high-quality visuals and audio communication, and supports auto-framing and voice tracking.
- Seamlessly calls the camera and microphone of the whiteboard through its Type-C IN port and screen projector.
- · Supports unlocking through NFC.
- · Includes a full-featured Type-C IN port.

## 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 so t, comfortable nib, writing on the whiteboard feels natural, similar to the real writing experience.

## 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.

#### 4K Camera with Ultra-wide FOV

8-MP with a maximum resolution of 4K@30 fps. It supports live videos and has an ultra-wide field of view (diagonal 99°, horizontal 87°, and vertical 49°), displaying vivid images even when placed in relatively large meeting rooms.

Technical Specification	on		Wi-Fi Standard	
Built-in System				
perating System	Android 14	Wi	-Fi Frequency Range	
J J Frequency J	Quad-core A73 + Quad-core A53  2.2 GHz + 2.0 GHz  ARM Mali-G52 MP8 (8EE)	MAX Power (Wi-Fi)	Transmission	
М	8 GB	Bluetooth		
OM	64 GB	Bluetooth Standard		
Card Swiping with NFC	Yes, supports binding up to 10 cards.	Bluetooth Frequency F	Range	
NFC	Supports quick unlock via NFC.	MAX Power Transmission	on	
Function		(Bluetooth)		
Operating System of External Module	Windows 7/8/10	RFID Modulation Method	J	
External Module	Dual-band 2.4 G/5 G; Supports enabling hotspot and	RFID Frequency Range		
Wi-Fi Hotspot	Wi-Fi at the same time	MAX Power Transmission (RFID)		
CCD Panel	86 inch	USB		
Backlight	DLED	RS-232		
Aspect Ratio	16:9	Video Input		
Brightness	400 cd/m² (typ.)	Video Output		
Resolution	3840 (H) × 2160 (V)	Audio Output		
Viewing Angle	H: 178°; V: 178°	Others		
Lifespan	≥50, 000 hrs	IrDA		
Display Color	90% NTSC (typ.)	Microphone		
Refresh Rate	60 Hz	Type-C Port		
Static Contrast Ratio	1200 (typ.)		USB 2.0 device (touch) + SW Charging)	
Response Time	8 ms (typ.)		Touchscreen  Response Time ≤3.3 ms	
Camera		Response Time		
	Android: Photo: 52 MP; Video: 8 MP	Touch Technology		
Camera	Windows: Photo: 8 MP; Video: 8 MP	Touch Points		
Auto Control	Auto white balance	Valid Touch		
Distortion	-8.6%	Writing Mode		
Max. Resolution	Photo: 9632 (H) × 5418 (V); Video: 3840 (H) × 2160 (V)	Anti-light Interference		
Field of View	D: 99°; H: 87°; V: 49°	Surface Hardness		
Face Detection	Yes	Touch Resolution		
Digital Zoom	Yes , supports up to 9x digital zoom.	Number of Multi-user Writing Points		
Device Ports		Speaker		
Light Sensor	1	Number of Cavities		
Front Button	1 × power button	Frequency		
Front Ports	1 × TYPE-C, 1 × HDMI IN, 2 × USB 3.2 Gen1	Power		
Network Port	2 × RJ-45	Built-in Speaker		
Wi-Fi	Yes, $1 \times$ Station, $1 \times$ AP			

Microphone		
Pick-up Distance	Long-range sound pickup: 8 m–12 m (26.25 ft–39.37 ft)	
Number of Microphones	8 arrays	
AGC	Yes	
Echo Cancellation	Yes	
Polar Pattern	Omnidirectional	
Intelligent Noise Filtering	YES	
General		
Power Supply	100–240 VAC, 50/60 Hz	
Power Consumption	318 W (basic), 453 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)	The left and right sides are black, and the top and bottom are silver.	
Product Dimensions	1,953.5 mm $\times$ 87 mm $\times$ 1,206 mm (76.91" $\times$ 3.43" $\times$ 47.48") (L $\times$ W $\times$ H)	
Frame Size	Top border: 40.9 mm (1.61"), left and right borders: 17.5 mm (0.69"), bottom border: 65.3 mm (2.57")	
Packaging Dimensions	2,090 mm × 227 mm × 1,315 mm (82.28" × 8.94" × 51.77") (L × W × H)	
Net Weight	65 kg (143.30 lb)	
Gross Weight	88.9 kg (195.99 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 × Wireless plug-in module 1 × Power cord 2 × Stylus pen 1 × Quick start guide 1 × Legal and regulatory information 1 × Wall mount bracket 1 × Wall-mount screw package 1 × Remote control	
Glass Thickness	3.2 mm	

Ordering Information					
Туре	Model	Description			
Smart interactive whiteboard	DHI-LPH86-MC420-C	86 inch Smart interactive whiteboard			
Accessories (Optional)	DHI-PKC-MS0A	DHI-PKC-MS0A			

Type	Model	Description
	DHI-PKC-WM1A	Omnidirectional Digital Microphone
	DHI-SP-PI7C82IS	Open Pluggable Specification
	DHI-SP-PI5C75IS	Open Pluggable Specification
	DHI-SP-PI7C75IS	Open Pluggable Specification
	DHI-PKC-MS1A	DHI-PKC-MS1A
	DHI-PKC-MS0C	DHI-PKC-MSOC
	DHI-PKC-UCOB	USB Camera
	DHI-SP-PI5C72IS	Open Pluggable Specification
Accessories (Optional)	DHI-PKC-UCOA	USB Camera
	DHI-PKC-MS1C	Mobile Stand
	DHI-SP-PI7C72IS	Open Pluggable Specification
	DHI-PKP-WP1B	Wireless transmitter
	DHI-SP-PI5C82IS	Open Pluggable Specification
	DHI-PKC-MS3B	Mobile Stand
	DHI-PKP-WPOB	Domestic General 22 inch Smart interactive whiteboard
	DHI-PKC-MS2B	Mobile Stand
	DHI-PKP-IP1A	Smart Pen

# Accessories

# Optional:



DHI-PKC-MS0A DHI-PKC-MS0A



DHI-PKC-MS1C Mobile Stand



DHI-PKC-MSOC DHI-PKC-MSOC



DHI-PKC-MS2B Mobile Stand

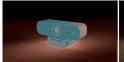


DHI-PKC-MS1A DHI-PKC-MS1A

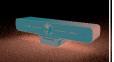


DHI-PKC-MS3B Mobile Stand

#### Optional:



DHI-PKC-UCOA USB Camera



DHI-PKC-UCOB USB Camera



DHI-PKC-WM1A Omnidirectional Digital Microphone



DHI-PKP-IP1A Smart Pen



DHI-PKP-WPOB
Domestic General 22
inch Smart interactive
whiteboard



DHI-PKP-WP1B Wireless transmitter



DHI-SP-PI5C72IS Open Pluggable Specification



DHI-SP-PI5C75IS
Open Pluggable
Specification



DHI-SP-PI5C82IS Open Pluggable Specification



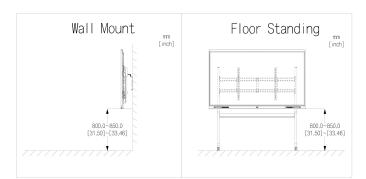
DHI-SP-PI7C72IS Open Pluggable Specification



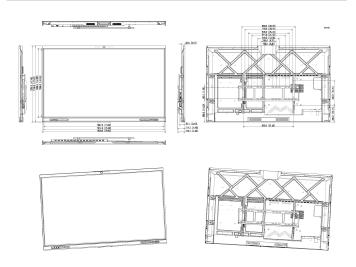
DHI-SP-PI7C75IS Open Pluggable Specification



DHI-SP-PI7C82IS Open Pluggable Specification



# Dimensions (mm[inch])



## **Panels**

