

DHI-LPH86-ST470-L-S2

86 inch Smart Interactive Whiteboard



Series Overview

Dahua DeepHub Smart Interactive Whiteboard for education has powerful processing capabilities with its 8-core CPU and up to 8 GB RAM 128G storage capacity. Equipped with a high-precision infrared frame with a 2 mm identification diameter, and a 4K high-definition DLED module, this whiteboard will give you an extraordinary experience with writing, controlling the whiteboard and displaying content on it. It features video conferencing, wireless screen sharing, file management, HD display, scan & go, and more AI functions to enhance your experience. You can rely on this whiteboard to modernize your meeting rooms and classrooms.

Functions

Google EDLA Certified

Enables you to easily access Google applications such as Google Chrome, Play Store, Gmail, Google Drive, and Google Docs, as well as download third-party apps from the Play Store to provide enhanced security and data protection.

4K HD Display

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

Text Recognition

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

- 86-inch 4K DLED display screen, featuring zero air gap technology, paired with anti-glare tempered glass to reduce air refraction, minimize parallax, and enhance display performance.
- Utilizes infrared touch technology, supporting 20-point infrared touch on Android and 40-point infrared touch on Windows, with a touch accuracy of ± 2 mm and a response time of ≤ 5 ms.
- Supports switching between Android and Windows systems; a PC module is required for Windows system usage.
- Enables one-click screen mirroring from mobile phones, computers, tablets, and other devices.
- Supports reverse touch control.
- Smooth writing: supports handwriting and stylus input, with fast writing response speed, replicating the feel of real writing.
- Gesture operations: Supports zooming, moving, dragging, panning, and various erasing methods (point erasing, circle erasing, gesture eraser, one-click screen clearing).
- Allows flexible annotation on any channel or interface, supports writing recording, and generates QR codes for annotations. Scanning the QR code enables sharing or saving, facilitating easy file encryption to enhance privacy and security.

Wireless Screen Sharing

In addition to basic file sharing, wireless casting, touch-back, and reverse control, it also supports real-time transmission of video and audio from a mobile phone's wireless camera, screen grouping (one-to-many), host mode (for centralized permission control), and split-screen display with up to 9 windows. Furthermore, it is compatible with Miracast, AirPlay, Chromecast, and other screen sharing protocols.

File Management

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

Scene

Indoor, classroom

Technical Specification

Built-in System	
Operating System	Android 16.0
CPU	Quad-core A72 + quad-core A53
CPU Frequency	MAX 2.2 GHZ
GPU	Mali G52 MC3
RAM	8 GB
ROM	128 GB

General	
Operating System of External Module	Windows 7/8/10/11
Power Supply	100–240 VAC, 50/60 Hz
Power Consumption	225 W (basic), 370 W (max)
Standby Power Consumption	≤0.5 W
Operating Temperature	0 °C to +40 °C (+32 °F to +104 °F)
Storage Temperature	-10 °C to +50 °C (+14 °F to +122 °F)
Operating Humidity	10%–90%, 101 kPa
Storage Humidity	10%–90%, 101 kPa
Product Material	Metal casing
Glass	3.2 mm anti-glare tempered glass
Casing Color (Frame/Rear)	Black
Product Dimensions	1,955.4 mm × 115.7 mm × 1,152.2 mm (76.98" × 4.56" × 45.36") (L × W × H)
Frame Size	Top frame: 17 mm (0.67"); Left and right frame: 17 mm (0.67"); Bottom frame: 42.6 mm (1.68")
Packaging Dimensions	2,044.0 mm × 200.0 mm × 1,280 mm (80.47" × 7.87" × 50.39") (L × W × H)
Net Weight	55 kg (121.25 lb)
Gross Weight	67.5 kg (148.81 lb)
Holes Distance	800 mm × 400 mm (31.50" × 15.75")
Installation	Wall mount or mobile bracket
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 Kit 3 × Aerial Rod

LCD Panel	
Screen Size	86 inch
Backlight	DLED
Aspect Ratio	16:9
Brightness	450 cd/m² (typ.)

Static Contrast Ratio	VA: 4000:1 (typ.); IPS: 1200:1 (typ.)
Resolution	3840 (H) × 2160 (V)
Viewing Angle	178° (H)/178° (V)
Lifespan	≥50,000 hrs
Display Color	72% NTSC
Response Time	≤8.5 ms (typ.)
Refresh Rate	60 Hz

Device Ports	
Light Sensor	1
Front Button	1 button : Power supply
Front Ports	3 × USB-A 3.0 (switchable) port 1 × USB Touch Type-B port 1 × HDMI IN port 1 × TYPE-C (USB data transmission , 5 V, 1 A charge) port
Rear Port	1 × RS-232 1 × COAX SPDIF 1 × AUDIO OUT (3.5mm) 1 × MIC IN (3.5mm) 2 × USB-A 2.0 (Android) 1 × RJ-45 IN (1000 Mbps) 1 × TYPE-C (USB data transmission , 5 V, 1 A charge) 1 × USB Touch Type-B 1 × HDMI IN 1 × HDMI OUT
TF Card Slot	1 × TF card slot
Others	1 × OPS port
Wi-Fi	Yes
Wi-Fi Standard	802.11a/b/g/n/ac/ax
Wi-Fi Frequency Range	2400–2483.5 MHz; 5150–5250 MHz; 5250–5350 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, BT5.2
Bluetooth Frequency Range	2400-2483.5 MHz
MAX Power Transmission (Bluetooth)	≤20 dBm@2400-2483.5 MHz;

Function	
IR Receiver	1

Touchscreen	
Response Time	≤5 ms
Touch Technology	Infrared
Attachment Method	Zero Air Gap

Touch Points	Android: 20 points; Windows: 40 points
Touch Accuracy	±2 mm
Valid Touch	2 mm (0.08") (covers 90% of the area)
Touch Height	≤2 mm
Writing Mode	Finger and stylus pen
Communication Mode	USB + UART
Anti-light Interference	Anti-glare tempered glass
Surface Hardness	≥9H
Touch Resolution	32767 × 32767

Speaker

Built-in Speaker	2 full-range speakers; The power of a single speaker is not less than 20 W
Power	2.0 sound channel, down-firing: 2 × 20 W
Frequency	150 Hz—20 kHz

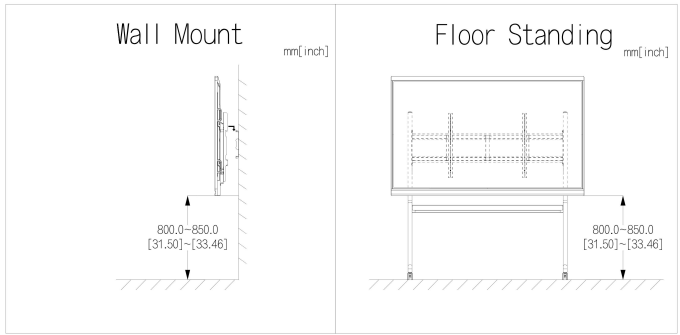
Certification

Certifications	CE, EDLA
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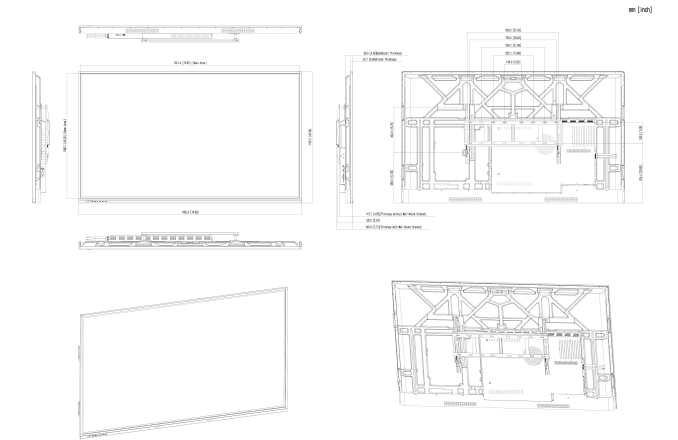
Ordering Information

Type	Model	Description
Smart Interactive Whiteboard	DHI-LPH86-ST470-L-S2	86 inch Smart Interactive Whiteboard

Installation



Dimensions (mm[inch])



Panels

