

DS-D5B86RB/FP (16G + 256G) 86-inch 4K Interactive Display



The Hikvision Interactive Flat Panel is a kind of newly developed intelligent teaching assistance product which integrates with the latest technologies of touch control, HD display, video processing, network communication, interactive control, sound control. It can be widely applied to the classroom, online teaching, training center, etc.

- UHD 4K display with resolution of 3840 × 2160.
- Anti-glare and anti-blocking design to ensure smooth interaction.
- Dual systems of Android and Windows (optional with OPS – the device includes OPS slot) saving cost and easy to use, video conference software are recommended to run under Windows 10/11 system (also compatible with Android, Linux, Mac OS and Chrome OS).
- Quick response, at most 50-point touch control and smooth writing experience.
- Built-in network switch chip saves a network switch.
- Multi-button design in front, convenient for classroom use.
- All-in-one design with tempered glass and intelligent temperature control, making it environmental-friendly and safety-guaranteed.
- Built-in Android 15 system, EDLA Certified

• Specification

Product Model	
Product Model	DS-D5B86RB/FP
Display	
Screen Size	86 inch
Backlight	DLED
Pixel Pitch	0.164 (H) × 0.493 (V) mm
Resolution	3840 × 2160 @60 Hz
Brightness	450 cd/m ² (Max.) 400 cd/m ² (Typ.)
Color Depth	10 bit
Display Color	1.07 G
Response Time	5 ms
Panel Type	VA
Contrast Ratio	5000:1 (Static) 30,000:1 (Dynamic)
Color Gamut	72% NTSC (CIE1931) (Typ.)
Refresh Rate	60 Hz
Viewing Angle	178° (H)/178° (V)
Aspect Ratio	16:9
Surface Hardness	9H (Pencil) 7 (Mohs)
Glass thickness	3.2 mm
Surface Glass	Anti-Glare Anti-Fingerprint glass
Surface Haze	25% Haze
Glass Bonding Method	Zero Lamination
Display Area	1895.04 (H) × 1065.96 (V)
Working Duration	7 × 16 H
Transmittance	88% ± 3
Lifespan	50,000 hours
Touch	
Type	Infrared Touch Screen
Touch Point	Up to 50-point multi-touch
Touch Response Time	≤ 2 ms
Minimum Touch Object	≥ 1.5 mm (≥ 90% touching area)
Touch Precision	± 0.5 mm (≥ 90% touching area)
Touch Resolution	32768 × 32768
Built-in System	
Operation System	Android 15.0
Memory	16 GB
Built-in Storage	256 GB
Processor	Quad-core Cortex-A72 × 4 (2.2 GHz) and quad-core Cortex-A53 × 4 (1.8 GHz)
GPU	Mali-G52 MC3
HDCP Version	2.3 & 2.2 & 1.4

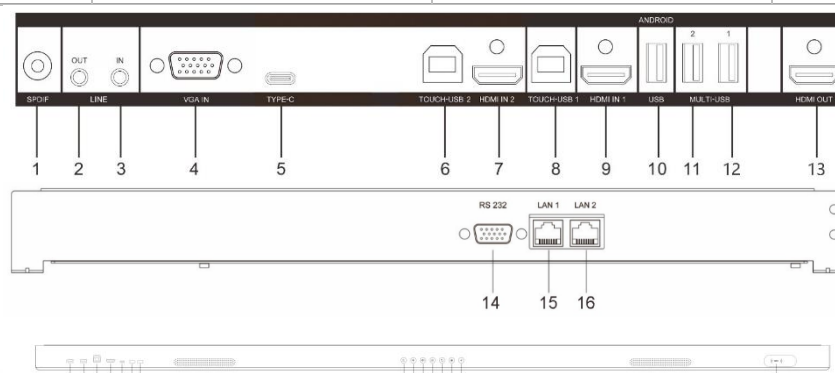
AI features & Tools	
Tools	Calculator, stopwatch, freeze screen, screen recording, voting, file transfer, widget creation, shortcut menu, metronome, magnifying glass, calendar, random selection, piano, tactical board (football and basketball), welcome screen, split screen, eye test.
Ai	Ai Assistant: voice control of functions and Q&A; Ai Identify: text and image selection for search; Ai Notes: real-time subtitles and automatic note generation.
Whiteboard	Using the toolbar, you can write (you can adjust parameters such as brush type, color, thickness, etc), erase (toolbar, touch gesture, pencil), select, restore/undo, text (Recognizes cursive and print tex) and figure recognition, add document and multimedia files (images, videos, etc), add browser and take other operations on the whiteboard pre-installed app. Up to 8 split screens for flexible writing and collaborative work. Save whiteboard (picture, PDF or VWB formats) via e-mail or QR Code.
Simultaneous projection	Support up to 9 different signal sources (include Windows, mac OS, iOS, Chrome Os, Android via WonderCast pre-installed app) to simultaneous projection and 2,4, 6 and 9 grid split screen.
User Management	
Cloud Account	SSO integration with cloud services for automatic file synchronization. Support 3 login methods: QR, NFC, and password.
Local Account	Up to 10 local user accounts. Support 4 login methods: Face Recognition, NFC, password and USB key.
Guest Mode	Supports one-time access to the whiteboard only.
Camera	
Pixel	48 MP for Photos & 8 MP for Video
Camera Function	Support automatic switching between Android system, OPS, and PC.
Speaker tracking	Support
Auto Framing	Support
Field Angle	93.4° (diagonal), 84.5° (horizontal), 54.1° (vertical)
Distortion	≤ 2.5%
Camera Resolution Ratio	Up to 4K
Microphone	
Specification	Omni-directional 8-array layout
Mic Function	Echo reduction and smart noise-cancellation
Voice Distance	12 m
Sampling Rate	48 K
Mic Depth	16 bit
Internal Function	
Loudspeaker	Built-in 2 × 20 W + 25 W loudspeaker;
Bluetooth	Built-in BLE (Bluetooth Low Energy) module supports Bluetooth 5.4
NFC	Support card reader 13.56 MHz, (ISO 14443A/ ISO 14443B)
Light Sensor	Yes
Image Processing Technology	Support 3D digital noise reduction, face detection, automatic white balance, automatic purple edge removal, automatic defogging; support shadow correction.

Audio Processing Technology	Support dereverberation, adaptive noise reduction, adaptive non-stationary noise reduction, adaptive echo cancellation, automatic gain control, automatic electrical level control, sound source localization, speech dynamic detection, digital beam forming, speech detection.
Interface	
Video & Audio Input	HDMI 2.0 × 3 (Front × 1; Rear × 2; Support HDCP2.3 & 2.2 & 1.4; HDMI1 Support CEC&ARC protocol) VGA × 1 (Rear) Audio × 1 (Rear)
Video & audio output	HDMI 2.0 × 1 (Rear) Audio × 1 (Rear) SPDIF × 1 (Rear)
Control interface	TOUCH-USB 3.0 × 1 (Front × 1) TOUCH-USB 2.0 × 2 (Rear × 2) RS232 × 1 (Rear)
Network Interface	LAN (1000 Mbps) × 2 (Rear) Wi-Fi AP & Station, 2.4 G/5 G Wi-Fi 6, IEEE 802.11 a/b/g/n/ac/ax 2 × 2 MIMO (2.4 GHz and 5 GHz) authentication protocols WEP, WPA, WPA2, PSK and 802.1X EAP
Data Transmission Interface	USB 3.0 × 3 (Front × 2; Rear × 1) USB 2.0 × 2 (Rear × 2) Type-C × 1 (Front × 1: Support USB 3.0, 65 W charging functions; support DP IN 1.4) Type-C × 1 (Rear × 1: Support USB 2.0, 65 W charging functions; support DP IN 1.4)
Power	
Power Supply	100 to 240 VAC, 50/60 Hz
Standby Consumption	≤ 0.5 W
Average Consumption	< 270 W
Working Environment	
Working Temperature	0 °C to 40 °C (32 °F to 104 °F)
Working Humidity	10%~90% RH
General	
VESA	800 mm × 600 mm (4 × M8-25 mm)
Accessory	Wall mount bracket, hook, user manual, touch writing pen (x2), packing list, 3 M touch USB cable, 3.5 M HDMI cable (2.0), power cable, remote control, screen cleaning cloth.
Package Dimensions (W × H × D)	2157 × 1345 × 223 mm
Net Weight	59.8 ± 0.5 kg
Gross Weight	79.9 ± 0.5 kg
Product Dimensions (With Wall Attachment)	1957.0 × 1173.7 × 110.6 mm

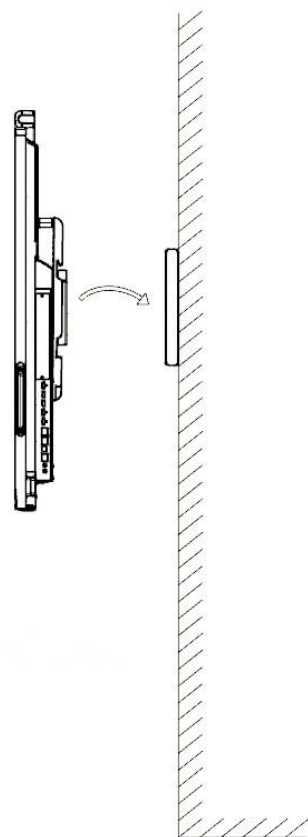
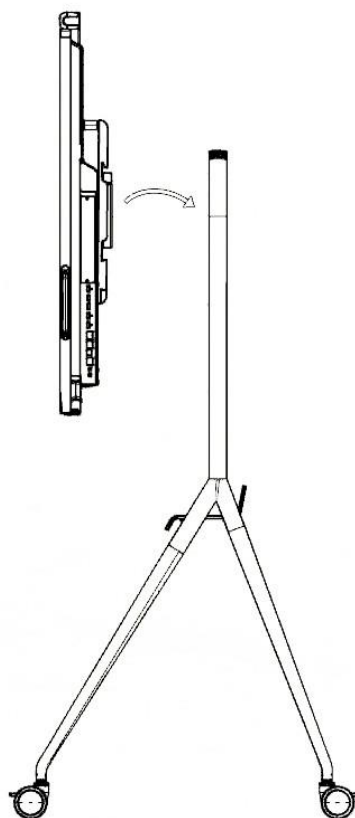
Product Dimensions (Without Wall Attachment)	1957.0 × 1173.7 × 83.2 mm
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▪ Physical Interface

Interface	Description	Interface	Description
1.SPDIF	SPDIF interface	2.Line OUT	Audio output interface
3.Line IN	Audio input interface	4.VGA IN	Video devices connection interface
5.TYPE-C	Type-C interface with DP input	6.TOUCH-USB 2	Peripheral touch interface
7.HDMI IN 2	HDMI 2 input interface	8.TOUCH-USB	Peripheral touch interface
9.HDMI IN 1	HDMI 1 input interface	10.USB	USB 2.0 interface
11.MULTI-USB 2	Multi-functional USB 3.0 interface	12.MULTI-USB 1	Multi-functional USB 3.0 interface
13.HDMI OUT	HDMI output interface	14.RS 232	RS 232 Control interface
15.LAN 1	LAN 1 interface	16. LAN 2	LAN 2 interface
A.USB	USB 3.0 interface	B.USB	USB 3.0 interface
C.TOUCH-USB	Peripheral touch interface	D.HDMI IN	HDMI input interface
E.TYPE-C	Type-C interface with DP input	F.	Light sensor
G.	Remote-control unit	H.	Power Key
J.	Volume -	K.	Volume +
L.	Android host menu	M.	Return
N.	Control menu	P.	PC shutdown
R.	NFC area		



▪ Installation

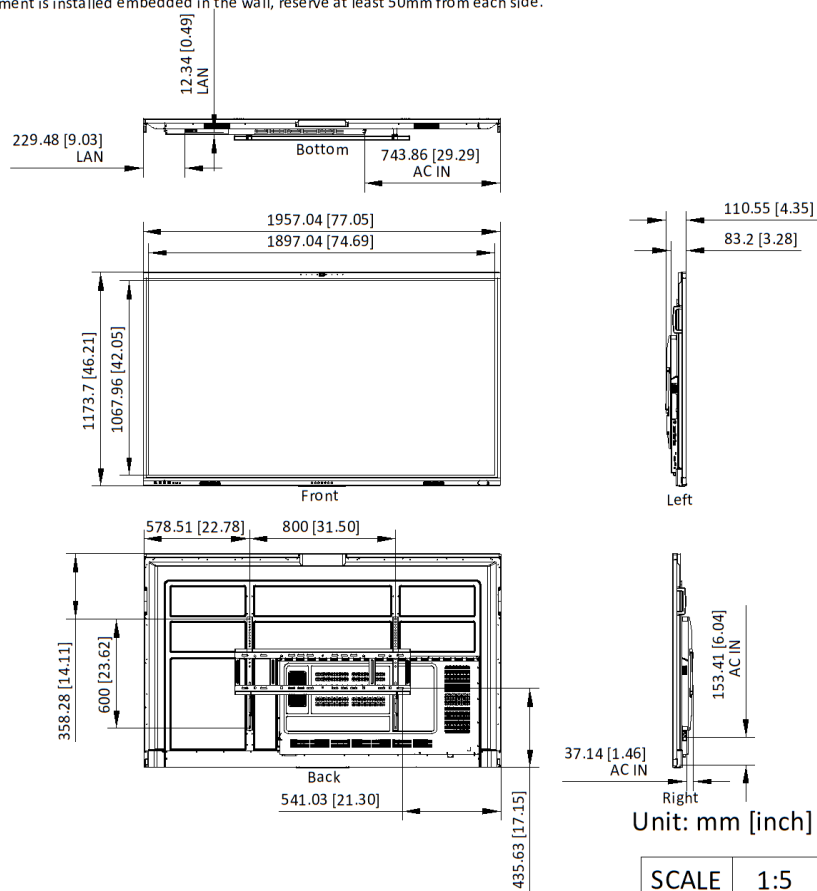


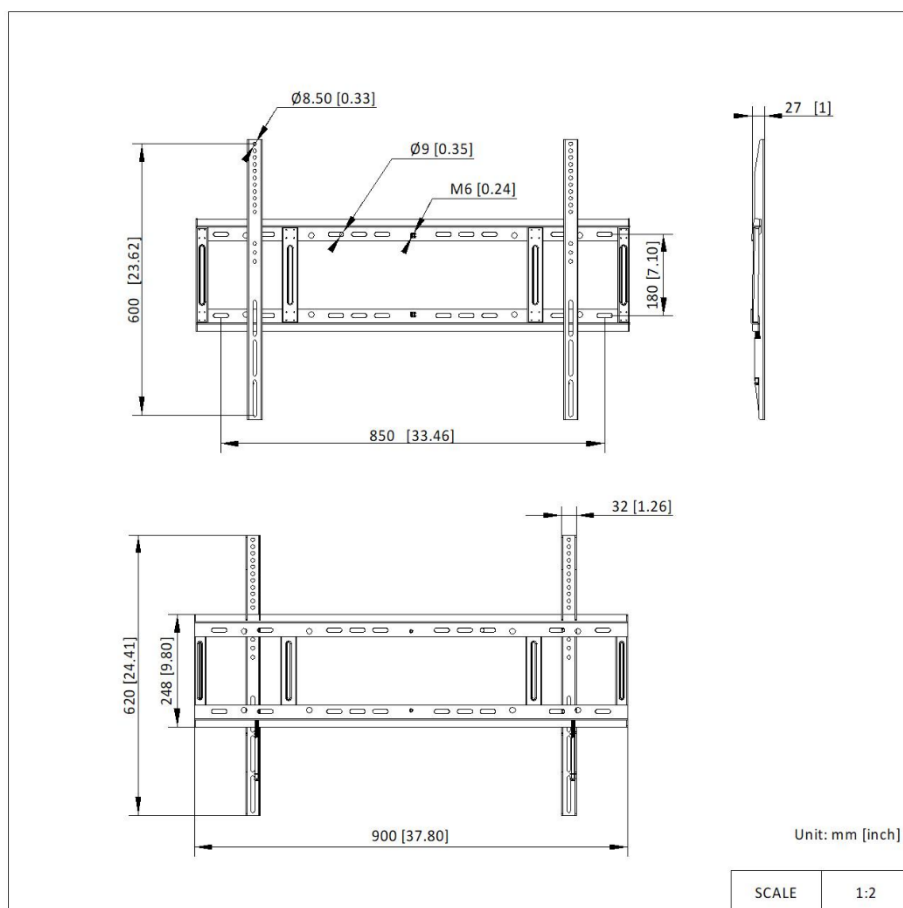
▪ **Available Model**

DS-D5B86RB/FP(EDLA)

▪ **Dimension**

If the equipment is installed embedded in the wall, reserve at least 50mm from each side.





▪ Accessory

▪ Optional

iDS-UVC-X28	DS-D5AC12T7-16S5	DS-D5AC12T5-8S2	DS-D5ABKY2-B	DS-D5SC3B-W
				
DS-D5ABKY2-M	DS-D5SC3B-B	DS-UVC-X12		
				

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