

DS-NLT86RB/CN 86-inch Interactive Flat Panel



The Hikvision WonderHub Interactive Flat Panel is an advanced all-in-one interactive display designed for modern collaboration and smart learning environments. Featuring a stunning 4K UHD touchscreen, intuitive interactive controls, and seamless wireless screen sharing, it delivers an engaging and efficient user experience. Powered by the WonderOS operating system and enhanced by the WonderHub Class cloud platform together with WonderHub AI intelligent capabilities, it provides powerful tools for teaching, presentations, and teamwork. The solution is ideally suited for classrooms, training centers, meeting rooms, and a wide range of collaborative spaces.

- UHD 4K display with a resolution of 3840 × 2160 and 480 nits brightness.
- Anti-Glare and Anti-Fingerprint design to ensure smooth interaction.
- Dual systems of Android and Windows (optional with 195×30×180mm OPS) saving cost and easy to use, video conferencing software is recommended to run on the Windows system.
- Supports up to 50-point multi-touch interaction with smooth and responsive writing.
- Built-in network switch chip eliminates the need for an external network switch.
- Multi-button front design for convenient classroom use.
- Durable all-in-one design with tempered safety glass and intelligent thermal management.
- Built-in Android 14 operating system with EDLA certification.
- Dual full-function USB Type-C ports, supporting up to 100W total power delivery and DisplayPort 1.2 input.
- Built-in sensors for ambient light, humidity, and temperature monitoring.

□ Specification

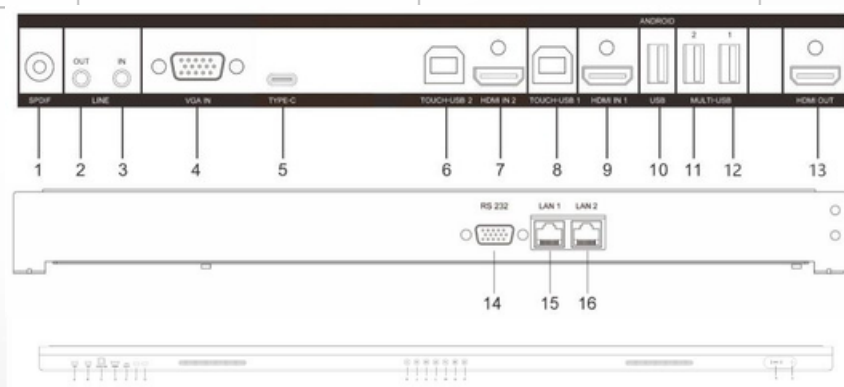
Product Model	
Product Model	DS-NLT86RB/CN
Display	
Screen Size	86 inch
Backlight	DLED
Pixel Pitch	0.164 (H) × 0.493 (V) mm
Resolution	3840 × 2160 @60 Hz
Brightness	480 cd/m ² (Typ.)
Color Depth	10 bit (8 bit + FRC)
Display Color	1.07 G
Response Time	5 ms
Panel Type	VA
Contrast Ratio	5000:1 (Static)
Color Gamut	30,000:1 (Dynamic)
Refresh Rate	72% NTSC (CIE1931) (Typ.)
Viewing Angle	60 Hz
Aspect Ratio	178° (H)/178° (V)
Surface Hardness	16:9
Surface Glass	9H (Pencil)
Surface Haze	7 (Mohs)
Glass Bonding Method	Anti-Glare & Anti-Fingerprint glass
Display Area	25% Haze
Working Duration	Zero Lamination
Transmittance	1895.04 (H) × 1065.96 (V)
Lifespan	7 × 16 H
Touch	
Type	88% ± 3
Touch Point	50,000 hours
Touch Response Time	Infrared Touch Screen
Minimum Touch Object	Up to 50-point multi-touch
Touch Precision	≤ 2 ms
Touch Resolution	≥ 1.5 mm (≥ 90% touching area)
Built-in System	
Operation System	± 0.5 mm (≥ 90% touching area)
Memory	32768 × 32768
Built-in Storage	
Processor	Android 14.0
GPU	8 GB (Optional 16 GB) + Max 16 GB Virtual RAM
HDCP Version	128 GB (Optional 256 GB)
NPU	Quad-core Cortex-A76 × 4 (2.4 GHz) and quad-core Cortex-A55 × 4 (1.8 GHz)
Internal Function	
Loudspeaker	Mali-G610 MC4
	2.3 & 2.0 & 1.4
	6TOPs
	Built-in 2 × 20 W + 25 W loudspeaker;

Bluetooth	Built-in BLE (Bluetooth Low Energy) module supports Bluetooth 5.4
Language Supported	Simplified Chinese, German, Italian, Arabic, Portuguese, Dutch, French, Indonesian, Thai, Vietnamese, Japanese, Spanish, English, Czech, Danish, Hungarian, Polish, Turkish, Russian, Romanian, Slovak, Korean, Uzbek, Bulgarian, Greek, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Hebrew, Ukrainian, Traditional Chinese (HK), Traditional Chinese (TW), Hindi, Latvian, Kazakh, Nepali
NFC	Support card reader 13.56 MHz, (ISO 14443A/ ISO 14443B/ ISO 15693)
Light Sensor	Yes
Humidity and Temperature Sensor	Relative humidity accuracy: up to $\pm 1.5\%$ RH; Temperature accuracy: up to $\pm 0.1\text{ }^{\circ}\text{C}$ AI Assistant, AI Identify, and AI Notes. Free for a 1-year validity period with 6,000
AI Function	minutes for AI Notes. Built-in whiteboard supports handwriting recognition, graphics recognition, document
Whiteboard	insertion, and more. Built-in WonderCast software supports screen casting for up to 9 devices
ScreenCast	simultaneously.
Interface	
Video & Audio Input	HDMI 2.1 TMDS $\times 3$ (Front $\times 1$; Rear $\times 2$; Support HDCP2.3 & 2.0 & 1.4; Support HDMI CEC protocol) VGA $\times 1$ (Rear) Audio $\times 1$ (Rear)
Video & audio output	HDMI 2.1 TMDS $\times 1$ (Rear) Audio $\times 1$ (Rear) SPDIF $\times 1$ (Rear)
Control interface	TOUCH-USB 3.0 $\times 1$ (Front $\times 1$) TOUCH-USB 2.0 $\times 2$ (Rear $\times 2$) RS232 $\times 1$ (Rear)
Network Interface	LAN (1000 Mbps) $\times 2$ (Rear) Wi-Fi AP & Station, 2.4 G/5 G Wi-Fi 6, IEEE 802.11 a/b/g/n/ac/ax 2 $\times 2$ MIMO (2.4 GHz and 5 GHz) authentication protocols WEP, WPA, WPA2, PSK and 802.1X EAP
Data Transmission Interface	USB 3.0 $\times 4$ (Front $\times 2$; Rear $\times 2$) USB 2.0 $\times 1$ (Rear) Type-C $\times 2$ (Front $\times 1$; Rear $\times 1$; Support USB 2.0, 100 W charging functions, DP IN 1.2)
Power	
Power Supply	100 to 240 VAC, 50/60 Hz
Standby Consumption	$\leq 0.5\text{ W}$
Average Consumption	$< 274\text{ W}$
Working Environment	
Working Temperature	0 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 104 $^{\circ}\text{F}$)

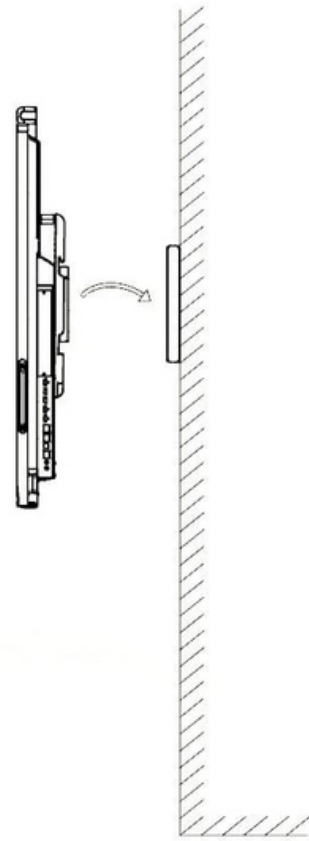
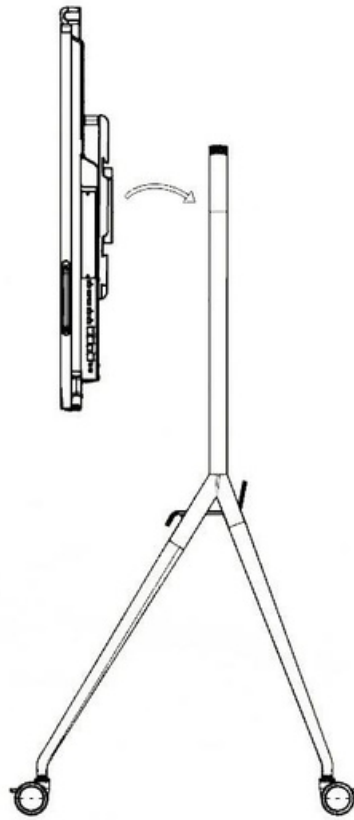
Working Humidity	10%~90% RH
General	
VESA	800 mm × 600 mm (4 × M8-25 mm)
Accessory	Wall mount bracket, hook, user manual, touch writing pen, packing list, 3 M touch USB cable, 3.5 M HDMI cable (2.0), 3 M power cable, remote control, screen cleaning cloth.
Package Dimensions (W × H × D)	2157 × 1345 × 223 mm
Net Weight	58.5 ± 0.5 kg
Gross Weight	78.5 ± 0.5 kg
Product Dimensions (With Wall Attachment)	1960.4 × 1158.2 × 106.4 mm
Product Dimensions (Without Wall Attachment)	1960.4 × 1158.2 × 82.4 mm

Physical Interface

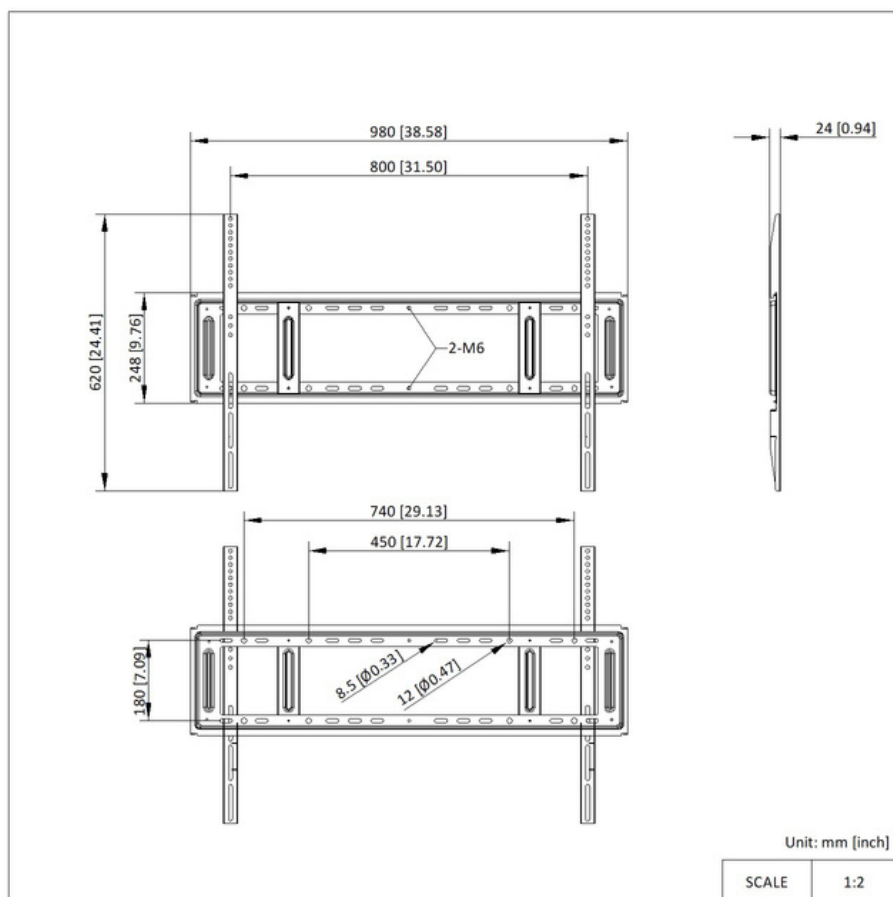
Interface	Description	Interface	Description
1.SPDIF	SPDIF interface	2.Line OUT	Audio output interface
3.Line IN	Audio input interface Type-C interface with DP input	4.VGA IN	Video devices connection interface
5.TYPE-C	HDMI 2 input interface HDMI 1 input interface	6.TOUCH-USB 2	Peripheral touch interface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



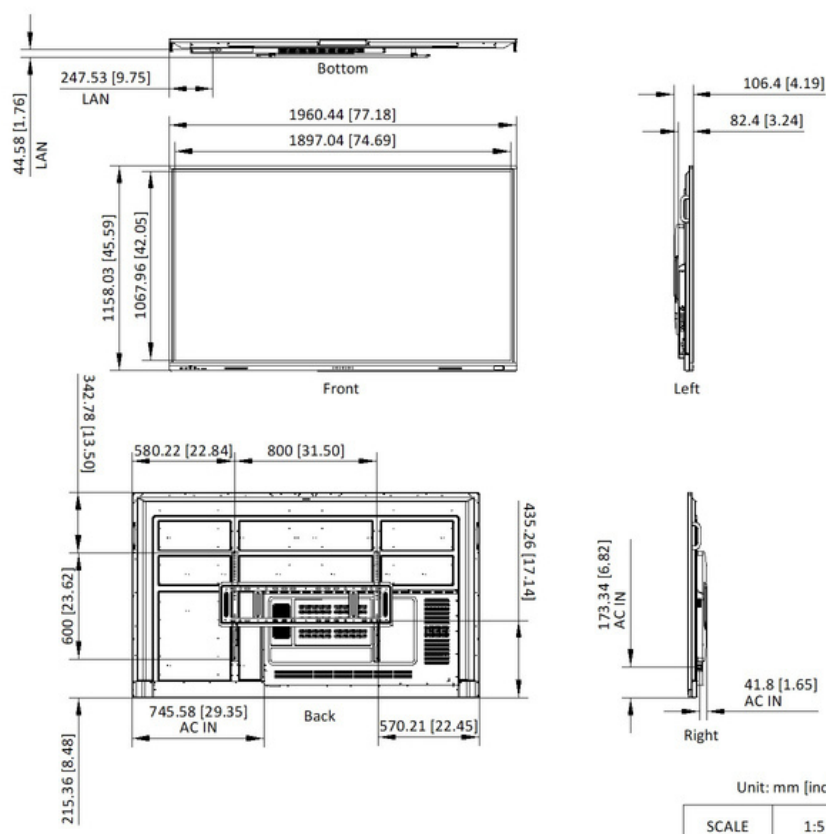
□ Installation



□ Dimension



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



Optional

DS-D5AC13T5-8S2	DS-D5AC13T7-16S5	DS-D5ABKY2-B	DS-D5AC12T5-8S2	DS-D5SC3B-B
				
DS-D5ABKY2-M	DS-D5ABKY3-EL	iDS-UVC-X28	DS-D5AC12T7-16S5	DS-UVC-X12
				
DS-D5SC3B-W				
				

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