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 16 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

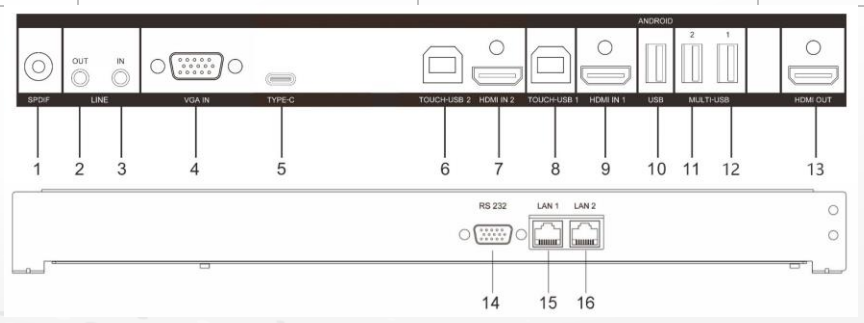
Product Model	
Product Model	DS-NLT86RB/CN
Display	
Screen Size	86 inch
Backlight	DLED
Pixel Pitch	0.164 (H) × 0.493 (V) mm
Resolution	3840 × 2160 @60 Hz
Brightness	480 cd/m² (Typ.)
Color Depth	10 bit (8 bit + FRC)
Display Color	1.07 G
Response Time	5 ms
Panel Type	VA
Contrast Ratio	5000:1 (Static) 30,000:1 (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)
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 16.0
Memory	8 GB (Optional 16 GB) + Max 16 GB Virtual RAM
Built-in Storage	128 GB (Optional 256 GB)
Processor	Quad-core Cortex-A76 × 4 (2.4 GHz) and quad-core Cortex-A55 × 4 (1.8 GHz)
GPU	Mali-G610 MC4
HDCP Version	2.3 & 2.0 & 1.4
NPU	6TOPs
Internal Function	
Loudspeaker	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 ± 1.5 %RH; Temperature accuracy: up to ± 0.1 °C
AI Function	AI Assistant, AI Identify, and AI Notes. Free for a 1-year validity period with 6,000 minutes for AI Notes.
Whiteboard	Built-in whiteboard supports handwriting recognition, graphics recognition, document insertion, and more.
ScreenCast	Built-in WonderCast software supports screen casting for up to 9 devices simultaneously.
Interface	
Video & Audio Input	HDMI 2.1 TMDS × 3 (Front x 1; Rear x 2; Support HDCP2.3 & 2.0 & 1.4; Support HDMI CEC protocol) VGA × 1 (Rear) Audio × 1 (Rear)
Video & audio output	HDMI 2.1 TMDS × 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 × 4 (Front × 2; Rear × 2) USB 2.0 × 1 (Rear) Type-C × 2 (Front × 1; Rear × 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	≤ 0.5 W
Average Consumption	< 274 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, 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
Certification	CE, CB, ANATEL, IP5X, LOA, REACH, EDLA, Energy Star, SUBTEL, TUV Low Blue Lgiht, MIC, CFP(ISO 14067/ISO14040/EN50693)

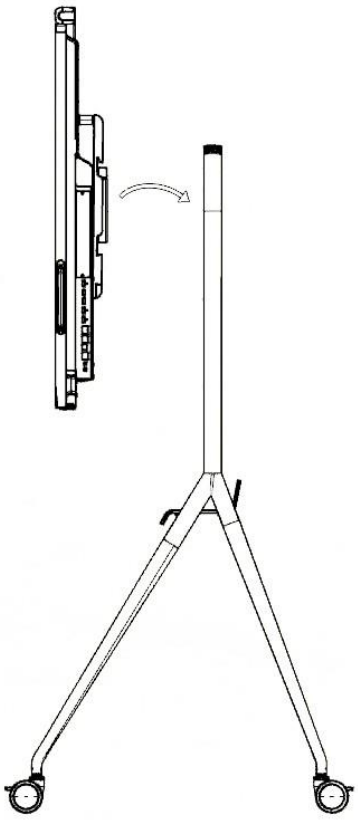
▪ Physical Interface

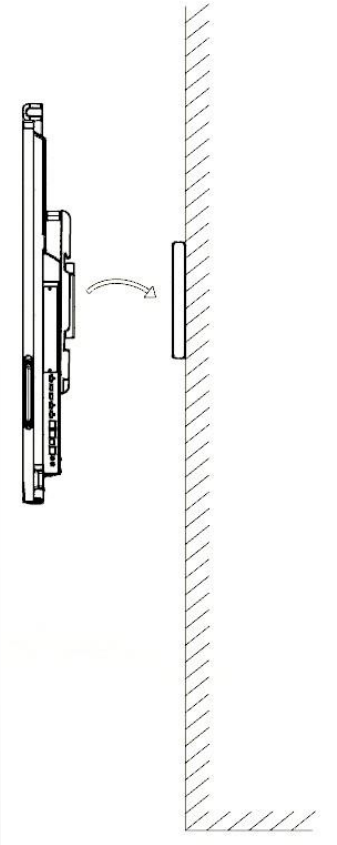
Interface	Description	Interface	Description
1.SPDIF	SPDIF interface	2.Line OUT	Audio output interface
3.Line IN	Audio input interface	4.VGA IN	Video devices connection interface
5.TYPE-C	Type-C interface with DP input	6.TOUCH-USB 2	Peripheral touch interface
7.HDMI IN 2	HDMI 2 input interface	8.TOUCH-USB	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 sensing area	S.	Humidity&Temperature Sensor



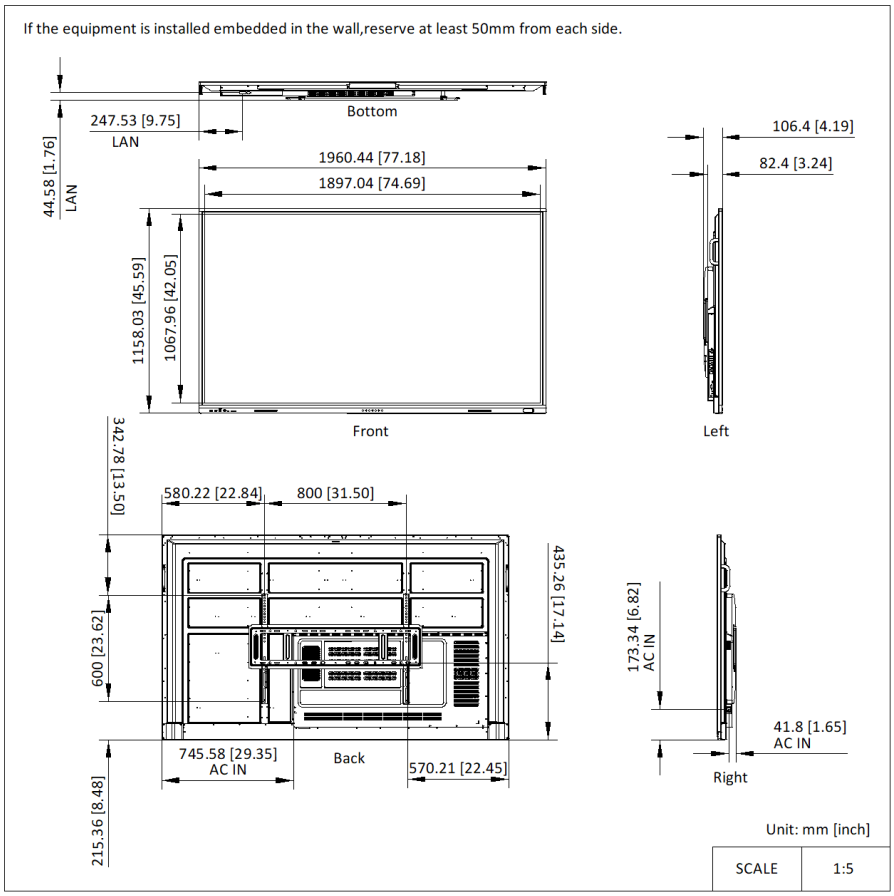


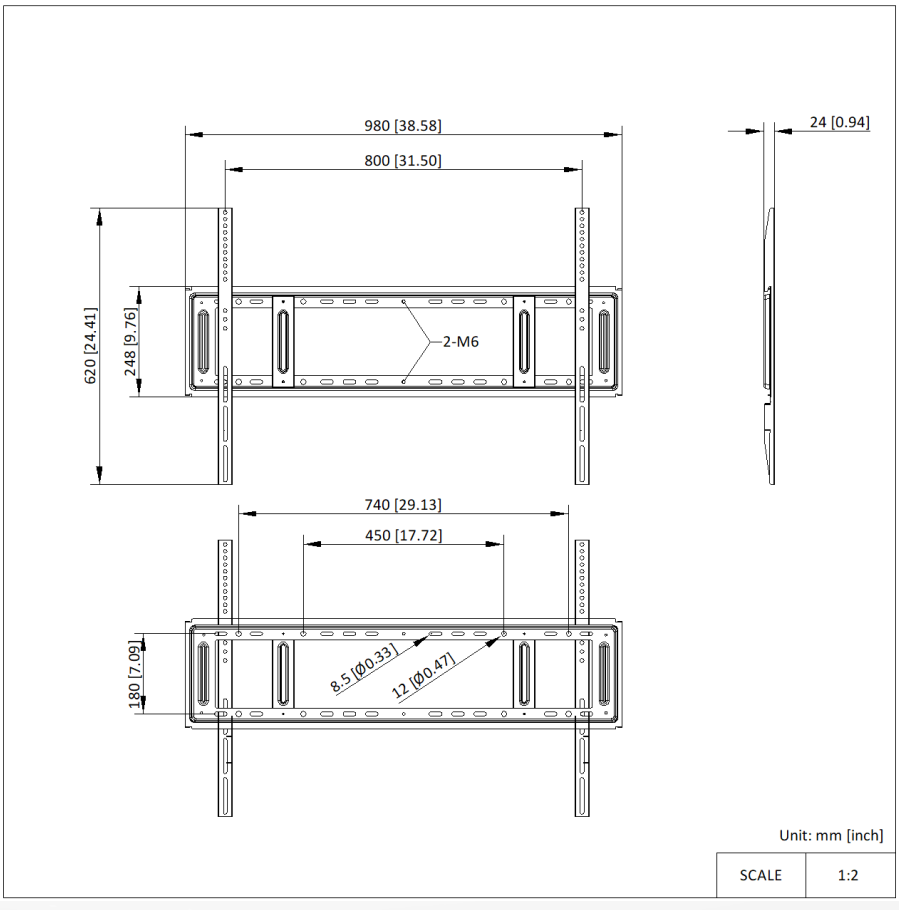
- **Installation**





▪ Dimension


If the equipment is installed embedded in the wall,reserve at least 50mm from each side.
Bottom
247.53 [9.75]
LAN
44.58 [1.76]
LAN
1960.44 [77.18]
1897.04 [74.69]
1158.03 [45.59]
1067.96 [42.05]
Front
106.4 [4.19]
82.4 [3.24]
Left
342.78 [13.50]
580.22 [22.84]
800 [31.50]
435.26 [17.14]
600 [23.62]
745.58 [29.35]
AC IN
Back
570.21 [22.45]
215.36 [8.48]
173.34 [6.82]
AC IN
41.8 [1.65]
AC IN
Right
Unit: mm [inch]
SCALE
1:5


980 [38.58]
800 [31.50]
24 [0.94]
620 [24.41]
248 [9.76]
2-M6
740 [29.13]
450 [17.72]
180 [7.09]
8.5 [Ø0.33]
12 [Ø0.47]
Unit: mm [inch]
SCALE
1:2

▪ Accessory

▪ Optional

DS-D5SC4B-B	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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