

## **DS-86NPF-NLT** **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) saving cost and easy to use, video conference software are recommended to run under Windows system.
- 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 10 system, EDLA Certified

## ▪ Specification

| Product Model        |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| Product Model        | DS-86NPF-NLT                                                                  |
| 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 <sup>2</sup> (Max.)<br>400 cd/m <sup>2</sup> (Typ.)                  |
| Color Depth          | 10 bit                                                                        |
| Display Color        | 1.07 G                                                                        |
| Response Time        | 5 ms                                                                          |
| Panel Type           | VA                                                                            |
| Contrast Ratio       | 5000:1 (Static)<br>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)<br>7 (Mohs)                                                       |
| Surface Glass        | Anti-Glare 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                                                                          |
| Built-in Storage     | 128 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                                                               |
| Camera               |                                                                               |
| Pixel                | Pixel 48 MP for Photos & 8 MP for Video                                       |

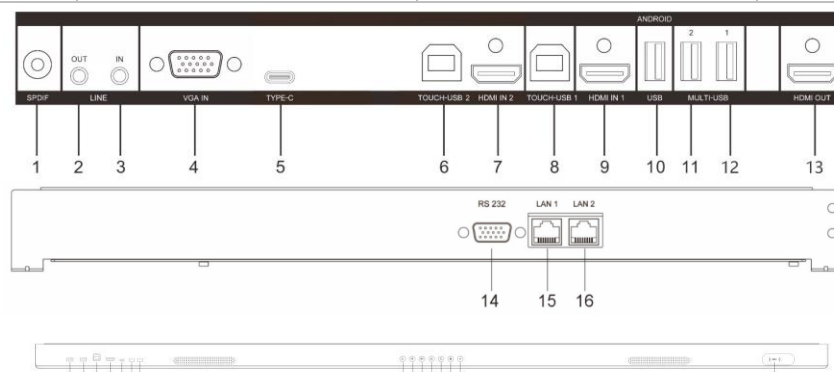
|                             |                                                                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Function             | Support intelligent switching between Android system, OPS, and PC.                                                                                                                                                                                                               |
| Field Angle                 | 93.4° (diagonal), 84.5° (horizontal), 54.1° (vertical)                                                                                                                                                                                                                           |
| Distortion                  | ≤ 2.5%                                                                                                                                                                                                                                                                           |
| Camera Resolution Ratio     | Up to 4K                                                                                                                                                                                                                                                                         |
| <b>Microphone</b>           |                                                                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                                                                           |
| <b>Internal Function</b>    |                                                                                                                                                                                                                                                                                  |
| 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<br>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. |
| <b>Interface</b>            |                                                                                                                                                                                                                                                                                  |
| Video & Audio Input         | HDMI 2.0 × 3 ( Front × 1; Rear × 2; Support HDCP2.3 & 2.2 & 1.4; HDMI1 Support CEC&ARC protocol )<br>VGA × 1 ( Rear )<br>Audio × 1 ( Rear )                                                                                                                                      |
| Video & audio output        | HDMI 2.0 × 1 ( Rear )<br>Audio × 1 ( Rear )<br>SPDIF × 1 ( Rear )                                                                                                                                                                                                                |
| Control interface           | TOUCH-USB 3.0 × 1 ( Front × 1 )<br>TOUCH-USB 2.0 × 2 ( Rear × 2 )<br>RS232 × 1 ( Rear )                                                                                                                                                                                          |
| Network Interface           | LAN (1000 Mbps) × 2 ( Rear )<br>Wi-Fi AP & Station, 2.4 G/5 G<br>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 )<br>USB 2.0 × 2 ( Rear × 2 )<br>Type-C × 1 (Front × 1 : Support USB 3.0, 65 W charging functions; support DP IN 1.4)<br>Type-C × 1 (Rear × 1 : Support USB 2.0, 65 W charging functions; support DP IN 1.4) |
| <b>Power</b>                                 |                                                                                                                                                                                                                                                |
| Power Supply                                 | 100 to 240 VAC, 50/60 Hz                                                                                                                                                                                                                       |
| Standby Consumption                          | ≤ 0.5 W                                                                                                                                                                                                                                        |
| Average Consumption                          | < 270 W                                                                                                                                                                                                                                        |
| <b>Working Environment</b>                   |                                                                                                                                                                                                                                                |
| Working Temperature                          | 0 °C to 40 °C (32 °F to 104 °F)                                                                                                                                                                                                                |
| Working Humidity                             | 10%~90% RH                                                                                                                                                                                                                                     |
| <b>General</b>                               |                                                                                                                                                                                                                                                |
| 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), 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                                                                                                                                                                                                                      |

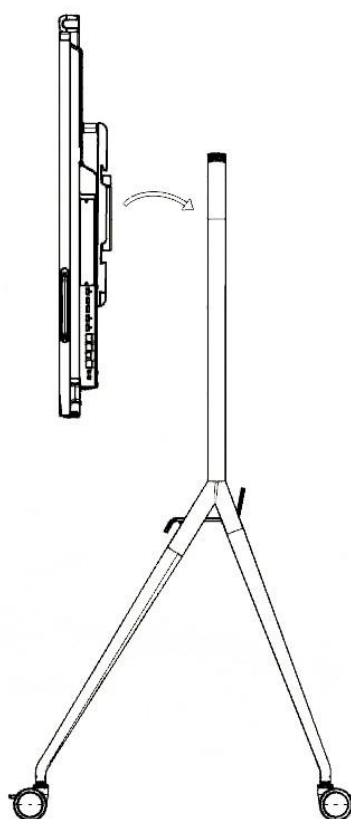
## ▪ Physical Interface

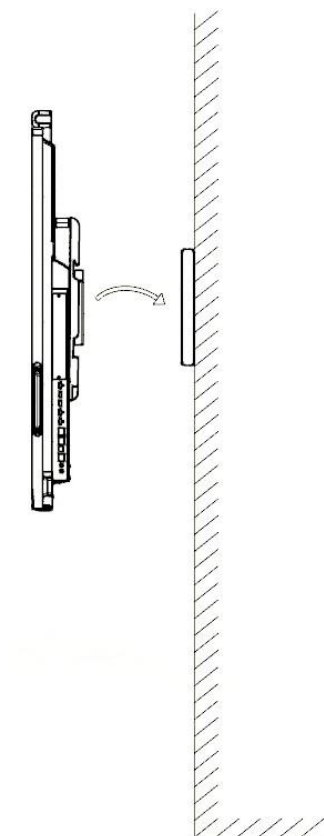
| Interface      | Description                        | Interface      | Description                        |
|----------------|------------------------------------|----------------|------------------------------------|
| 1.SPDIF        | SPDIF interface                    | 2.Line OUT     | Audio output 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





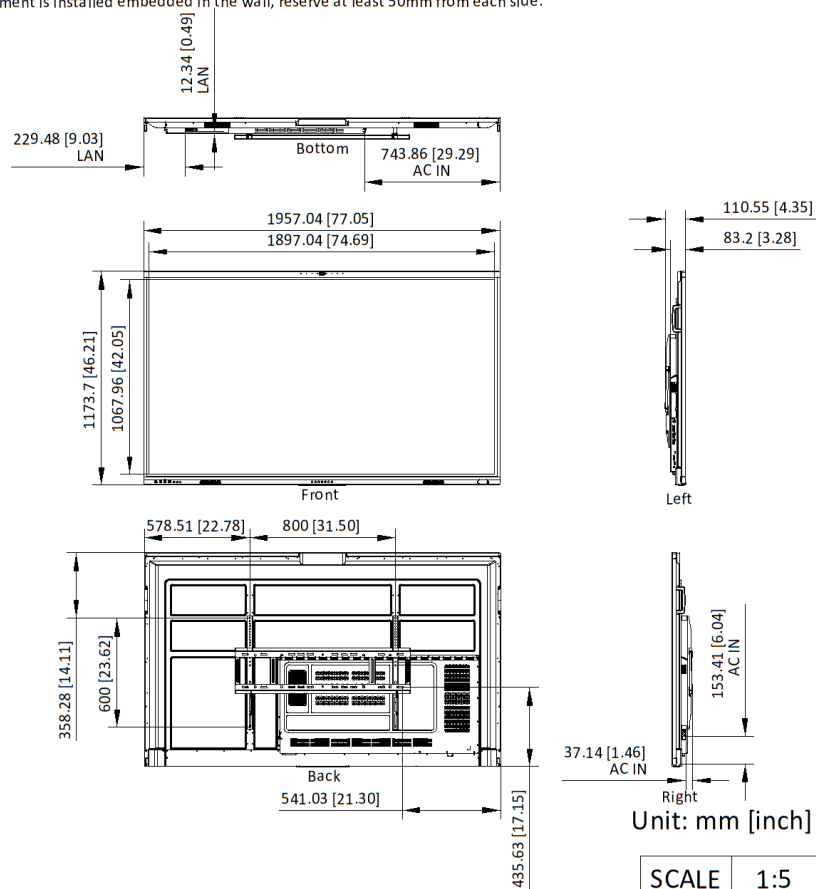
#### ▪ Available Model

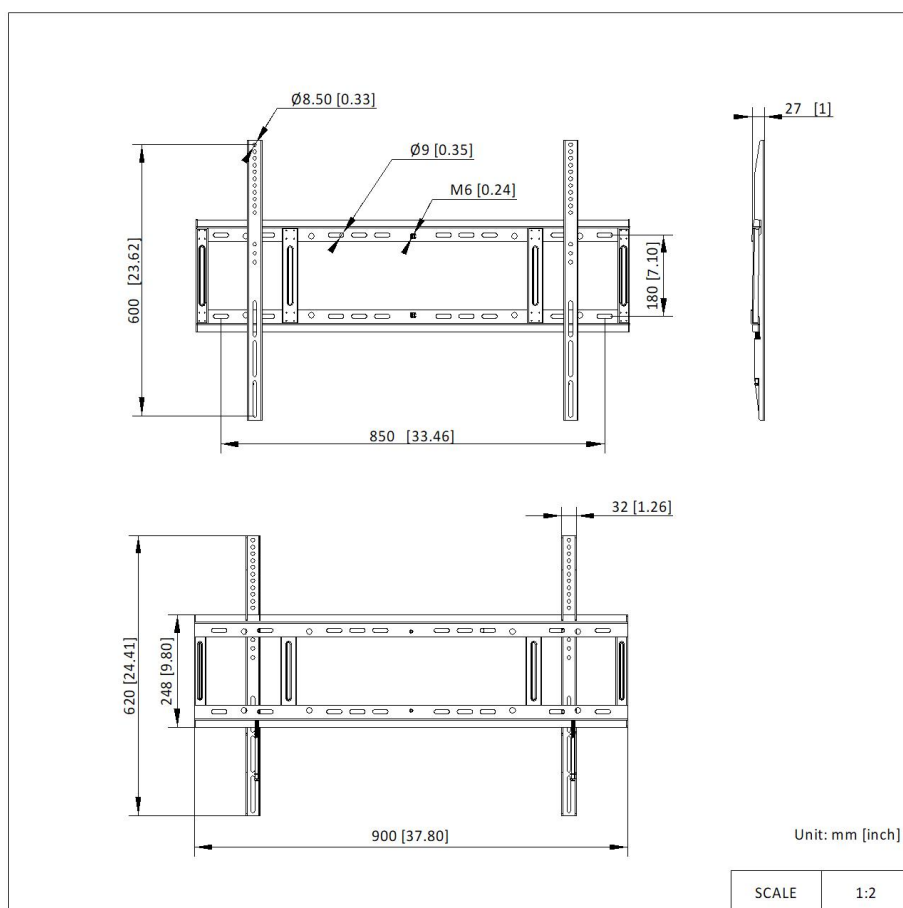
DS-86NPF-NLT(EDLA)

DS-86NPF-NLT(EDLA)(OD35)

#### ▪ Dimension

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





▪ **Accessory**

▪ **Optional**

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

# See Far, Go Further



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