

# PHILIPS

E-Line Display

Signage Solutions

86"

Powered by Android

Multi-touch



86BDL3052E



## Interactive education display

Featuring multi-touch technology

The Philips E-Line touch display maximises engagement and inspires collaboration with up to 20 touchpoints. Powered by Android and featuring a toughened anti-glare glass, it's made to withstand heavy daily usage in the classroom.

### Interactive and collaborative

- Operate, monitor and maintain with CMND & Control
- Multi-touch technology capable of 20 touchpoints
- Advanced IR touch with smaller, shallower bezels

### Smart and powerful

- OPS slot allows for PC embedding without cabling
- Whiteboard mode built-in
- Android: Run your own app or choose your favorite app to run
- 0-gap touch frame
- Anti-glare toughened glass 7 MOHS

# Highlights

## Powered by Android

With Android OS integrated into the display, you can work with the most developed OS on the planet and save your own app directly into the display. Or, choose from the large library of Android apps and play content from there. With the built-in scheduler, you can daypart your apps and content based on your customer and time of day and with the auto orientation feature, showing content in portrait or landscape is as simple as turning the display.

## OPS slot



Integrate a full-power PC or Android-powered CRD50 module directly into your Philips Professional Display. The OPS slot

contains all the connections you need to run your slot-in solution, including a power supply.

## CMND & Control



Run your display network over a local (LAN) connection. CMND & Control allows you to perform vital functions like controlling inputs and monitoring display status. Whether you're in charge of one screen or 100.

for education, public venues, corporate, hospitality, and retail settings. The touch panel is HID compliant, providing true plug-and-play operation.

## Whiteboard mode built-in

Inspire agile collaboration with whiteboard mode. Simply activate this feature to turn your display into a blank canvas that can be drawn on by multiple users by hand or with dedicated display markers. Everything on screen can then be captured for easy printing or file sharing.

## Multi-touch technology

Create a memorable interactive experience with up to 20 touchpoints at the same time. Perfect for collaborative and competitive applications, this display connects your audience with any content - making it ideal

# Specifications

## Picture/Display

**Diagonal screen size:** 86 inch / 218.44 cm  
**Panel resolution:** 3840 x 2160  
**Optimum resolution:** 3840 x 2160 @ 60 Hz  
**Response time (typical):** 8 ms  
**Aspect ratio:** 16:9  
**Viewing angle (H / V):** 178 / 178 degree  
**Pixel pitch:** 0.4935 (H) x 0.4935 (V)[mm]  
**Display colors:** 1.07 B  
**Picture enhancement:** 3/2 - 2/2 motion pull down, 3D Combfilter, Motion compens. deinterlacing, Progressive scan, 3D MA deinterlacing, Dynamic contrast enhancement  
**Panel technology:** VA  
**Contrast ratio (typical):** 4000:1  
**Operating system:** Android 8.0  
**OS UI resolution:** 1920 x 1080 @ 60 Hz  
**Brightness (after glass):** 380 cd/m<sup>2</sup>  
**Brightness (before glass):** 410 cd/m<sup>2</sup>

## Supported Display Resolution

### Computer formats

| Resolution  | Refresh rate |
|-------------|--------------|
| 720 x 400   | 70Hz         |
| 832 x 624   | 75Hz         |
| 1440 x 900  | 60Hz         |
| 1600 x 900  | 60Hz         |
| 1680 x 1050 | 60Hz         |
| 1920 x 1080 | 60Hz         |
| 1024 x 768  | 60Hz         |
| 1152 x 870  | 75Hz         |
| 1280 x 1024 | 60Hz         |
| 1280 x 720  | 60Hz         |
| 3840 x 2160 | 30, 60Hz     |
| 640 x 480   | 60,67,75Hz   |
| 800 x 600   | 60Hz         |

### Video formats

| Resolution | Refresh rate |
|------------|--------------|
| 480i       | 60Hz         |
| 480p       | 60Hz         |
| 720p       | 50, 60Hz     |
| 1080i      | 50, 60Hz     |
| 1080p      | 50, 60Hz     |
| 2160p      | 30, 60Hz     |
| 576i       | 50Hz         |
| 576p       | 50Hz         |

## Connectivity

**Video input:** DVI-D (x1), HDMI 2.0 (x3), VGA (Analog D-Sub) (x1), USB 2.0 (x4), USB-C (up to 65W)

**Audio input:** 3.5 mm mini jack (x1)  
**Audio output:** 3.5 mm Mini Jack (x1)  
**External control:** IR (in/out) 3.5 mm jack, RJ45, RS232C (in/out) 2.5 mm jack  
**Other connections:** OPS, micro SD, USB-B (x3)

## Convenience

**Placement:** Landscape (18/7)  
**Screen saving functions:** Pixel Shift, Low Brightness  
**Signal loop through:** RS232, IR Loophrough  
**Ease of installation:** AC Out, Smart Insert  
**Network controllable:** RS232, RJ45  
**Keyboard control:** Lockable  
**Remote control signal:** Lockable  
**Other convenience:** Carrying handles

## Operating conditions

**Temperature range (operation):** 0 ~ 40 °C  
**Temperature range (storage):** -20~60 °C  
**Altitude:** 0 ~ 3000 m  
**MTBF:** 50,000 hour(s)  
**Humidity range (operation)[RH]:** 20 ~ 80% (without condensation)  
**Humidity range (storage) [RH]:** 5 ~ 95% (without condensation)

## Power

**Consumption (Typical):** 250 W  
**Consumption (Max):** 507 W  
**Standby power consumption:** <0.5W  
**Mains power:** 100 ~ 240 VAC, 50/60Hz  
**Power Saving Features:** Smart Power  
**Energy Label Class:** G

## Sound

**Built-in speakers:** 2 x15 W

## Accessories

**Optional accessories:** Interact dongles  
**Included Accessories:** Cleaning cloth (x1), HDMI Cable (3m) (x1), IR sensor cable (1.8 m) (x1), Philips logo (x1), Quick start guide (x1), Remote control & AAA batteries, RS232 daisy chain cable (x1), Touch Pen (x2), USB A to B cable (3m) (x1), RS232 cable, AC Power Cord, Cable clip (x3), AC switch cover & Screw x1, DVI-D cable, USB cover and screws

## Miscellaneous

**On-Screen Display Languages:** Arabic, Dutch, Danish, English, French, Finnish, German, Italian, Japanese, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Simplified Chinese, Turkish, Traditional Chinese  
**Regulatory approvals:** CE, FCC, Class A, RoHS, CB, EAC, EMC, ETL  
**Warranty:** 5 year warranty

## Multimedia Applications

**USB Playback Video:** H.263, H.264, H.265, MPEG1/2, MP4, VP9  
**USB Playback Picture:** BMP, JPEG, PNG  
**USB Playback Audio:** AAC, MPEG, HEAAC

## Interactivity

**Multi-touch technology:** 0-gap Infrared touch  
**Touch points:** 20 simultaneous touch points  
**Plug and play:** HID compliant  
**Protection glass:** Anti-Glare, Tempered safety glass 7H

## Weight

**Product with packaging (kg):** 90.7 kg  
**Product with packaging (lb):** 199.96 lb  
**Product without stand (kg):** 74.38 kg  
**Product without stand (lb):** 163.98 lb

## Internal Player

**CPU:** 2 x A53 + 2 x A73  
**GPU:** ARM Mali G51  
**Memory:** 3GB DDR3  
**Storage:** 16GB EMMC

## Dimensions

**Smart Insert mount:** 100x100mm, 6xM4L6  
**Set dimensions (W x H x D):** 1960.8 x 1145.7 x 101.3mm(D\_Max)/79.0mm(D\_Wallmount)  
**Set dimensions in inch (W x H x D):** 77.19 x 45.11 x 3.98(D\_Max)/3.11(D\_Wallmount) inch  
**Bezel width:** 17.8mm(T/R/L) x 31.7mm(B)  
**Wall Mount:** 600 x 400 mm, M8  
**Weight:** 74.38 kg

