



Philips Signage Solutions
E-Line Display

86"

Powered by Android
Multi-touch

SignageSolutions



86BDL4052E

Interactive education display

Featuring multi-touch technology

Inspire collaboration. Maximise engagement. This top-spec Philips E-Line touch display is powered by Android and features enhanced educational software and programs compatibility, 20 touchpoints, and a toughened anti-glare glass.

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
- Wireless screen sharing & advanced collaboration
- Android: Run your own app or choose your favorite app to run
- 0-gap touch frame
- Anti-glare toughened glass 7 MOHS

PHILIPS

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.

CMND & Control



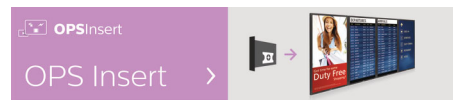
Run your display network over a local (LAN) connection. CMND & Control allows you to perform vital functions like controlling inputs

and monitoring display status. Whether you're in charge of one screen or 100.

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

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.

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.

Wireless screen sharing

Display four feeds on the one screen. Wireless screen sharing allows you to connect multiple devices at the same time for quick content switching when you need it. Use your existing Wi-Fi network to instantly and securely connect devices, or use our optional HDMI interact dongles to cast directly to the screen without needing to connect to your secured/protected network.

Specifications

Picture/Display

- Diagonal screen size: 85.6 inch / 217.4 cm
- Panel resolution: 3840 x 2160
- Optimum resolution: 3840x 2160 @ 60Hz
- Brightness: 350 cd/m²
- Dynamic contrast ratio: 500,000:1
- Response time (typical): 8 ms
- Aspect ratio: 16:9
- Viewing angle (H / V): 178 / 178 degree
- Pixel pitch: 0.4935x0.4935 mm
- Display colors: 1.07 billion
- 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 10
- OS UI resolution: 3840 x 2160 @ 60 Hz

Supported Display Resolution

• Computer formats

| Resolution | Refresh rate |
|-------------|------------------|
| 640 x 350 | 70Hz |
| 640 x 480 | 60, 67, 72, 75Hz |
| 720 x 400 | 70Hz |
| 800 x 600 | 56, 60, 72, 75Hz |
| 832 x 624 | 75Hz |
| 848 x 480 | 60Hz |
| 960x720 | 75Hz |
| 1024x768 | 60,70Hz |
| 1152 x 864 | 60, 70, 75Hz |
| 1152 x 900 | 66Hz |
| 1280 x 720 | 60,70Hz |
| 1280 x 768 | 60Hz, 75Hz |
| 1280 x 800 | 60,75Hz |
| 1280 x 960 | 60Hz |
| 1280x1024 | 60,67,75Hz |
| 1360 x 768 | 60Hz |
| 1366 x 768 | 60Hz |
| 1400 x 1050 | 60, 75Hz |
| 1440 x 900 | 60Hz |
| 1600 x 900 | 60Hz |
| 1600 x 1200 | 60Hz |
| 1680 x 1050 | 60Hz |
| 1920 x 1080 | 60Hz |
| 1920 x 1200 | 60Hz |
| 3840 x 2160 | 24,25,30,60Hz |

• Video formats

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

Connectivity

- Video input: DVI-D (x1), HDMI 2.0 (x3), USB 2.0 (x3), USB 3.0 (x3), USB-C (up to 65W)
- Audio input: 3.5 mm mini jack (x1)
- Video output: HDMI 2.0 (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 Loophthrough
- 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): 450 W
- Consumption (Max): 670 W
- Standby power consumption: <0.5 W
- Mains power: 100 - 240V~, 50 - 60Hz, 7.5A
- Power Saving Features: Smart Power
- Energy Label Class: G

Sound

- Built-in speakers: 2 x15 W

Accessories

- Optional accessories: Interact dongles
- Included Accessories: AC Switch Cover, Cleaning cloth (x1), DVI - I Cable (1.8m) (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), 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, EMF, ETL
- Warranty: 3 year warranty

Multimedia Applications

- USB Playback Video: H.263, H.264, H.265, MPEG1/2, VP8, VP9, MPEG4
- 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 7MOHS, Blue light filter

Weight

- Product with packaging (kg): 90.6 kg
- Product with packaging (lb): 199.74 lb
- Product without stand (kg): 74.49 kg
- Product without stand (lb): 164.22 lb

Internal Player

- CPU: MTK 9970A
- Memory: 4GB RAM
- Storage: 32 GB eMMC
- Wifi: 2G/5G/6G 2T2R

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) mm
- 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: 600 x 400 mm, M8 kg



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