Philips Signage Solutions
D-Line Display

55"
Powered by Android
500cd/m²

55BDL4650D

Smart and modular for an even longer lifetime

powered by Android

Philips D-Line is designed to engage your audience and delight customers. Powered by Android 11 for easy software integrations, this versatile display is suitable for impact in any setting.

Innovative solutions for any signage application
- Save and play content with internal memory
- Android SoC processor. Native and web apps
- Integrated WiFi 6 and Bluetooth module

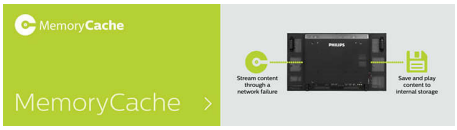
Care about you, your business and your audience
- 4G/LTE optional module for reliable connection
- Modularity - longer product lifetime
- FailOver. Ensure your display never goes blank

Maximizing the impact of your message
- Connect and control your content via the cloud
- Catch the Wave for revolutionary results

PHILIPS

Highlights

Internal Memory



Save and play content with internal memory. Upload your media into the display and playback content immediately. Working in conjunction with the internal browser, it also serves as a memory cache when streaming online content. If the network ever fails, the internal memory keeps content running by playing a cached version of the content, ensuring that your media stays up even if the network goes down.

FailOver

Critical for demanding commercial applications, FailOver is a revolutionary technology that automatically plays back-up content on screen in the unlikely event of a media player failure. Simply select a primary input connection and a FailOver connection and you are ready for instant content protection.

Modularity

Extend your display into the future with our modular approach. Bringing opportunities for longer product lifetime with easily detached and replaced components, and a firm focus on sustainability, with reduced WEEE disposal.

Powered by Android 11

Powered by Android 11 and with integrated WiFi, your Philips D-Line delivers the ultimate, most secure and connected display experience. Optimised for native Android apps, and enabling you to install web apps and software directly onto the display, eliminating the need for an external media player.

SmartBrowser

Connect and control your content via the cloud with our integrated HTML5, Chromium-based browser. Design your content online and connect a single display, or your entire network, either landscape or portrait, in 4k UHD resolution. Simply connect to the internet via WiFi or with an RJ45 cable.

PPDS Wave

Unlock the power, versatility and intelligence inside your Philips D-Line displays remotely with Wave. This evolutionary cloud platform puts you fully in control, with simplified installation and set-up, monitoring and controlling displays, upgrading firmware, managing playlists and setting power schedules. Saving you time, energy and environmental impact.

D-Line Display
55" Powered by Android, 500cd/m²

55BDL4650D/00

Specifications

Picture/Display
- Diagonal screen size (metric): 138.7 cm
- Diagonal screen size (inch): 54.6 inch
- Aspect ratio: 16:9
- Panel resolution: 3840 x 2160
- Pixel pitch: 0.315 × 0.315 mm
- Optimum resolution: 3840 x 2160 @ 60Hz
- Brightness: 500 cd/m²
- Display colors: 1.07 Billion
- Contrast ratio (typical): 5000:1
- Dynamic contrast ratio: 500,000:1
- Response time (typical): 8 ms
- Viewing angle (horizontal): 178 degree
- Viewing angle (vertical): 178 degree
- Picture enhancement: 3/2 - 2/2 motion pull down, Dynamic contrast enhancement, Motion compens. deinterlacing, Progressive scan
- Panel technology: VA
- Operating system: Android 11
- Haze: 25%

Connectivity
- Audio output: 3.5mm jack
- Video input: DVI-I (x 1), DisplayPort 1.4 (x1), HDMI 2.0 (x2), USB 3.0 (x2), VGA (via DVI)
- Audio input: 3.5 mm jack
- Other connections: 4G/LTE antenna connectors, Micro USB (x1) (OTG), USB 2.0 (x1)
- Video output: DisplayPort 1.4 (x1)
- External control: RJ45, RS232C (in/out) 2.5 mm jack, IR (in/out) 3.5 mm jack
- WiFi: WiFi 6 + Bluetooth 5.2 (slide-in module)

Convenience
- Placement: Landscape (24/7), Portrait (24/7)
- Tiled Matrix: Up to 10 x 15
- Screen saving functions: Pixel Shift
- Keyboard control: Hidden, Lockable
- Signal loop through: IR Loopthrough, DisplayPort, RS232
- Energy saving functions: Smart Power
- Network controllable: RS232, External 4G mPCIe slot, RJ45, WiFi
- WiFi protocol: a b g n, 802.11 ax, 802.11 ac

Sound
- Built-in speakers: 2 x 10W RMS

Power
- Mains power: 100 ~ 240 VAC, 50 ~ 60 Hz
- Consumption (Typical): 112 W
- Standby power consumption: 0.5 W
- Energy Label Class: G

Supported Display Resolution
- Computer formats: 1920 x 1080, 60Hz, 1680 x 1050, 60Hz, 1600 x 900, 60Hz, 1024 x 768, 60Hz, 1280 x 1024, 60Hz, 1280 x 720, 60Hz, 1440 x 900, 60 Hz, 3840 x 2160, 30, 60Hz, 640 x 480, 60Hz, 800 x 600, 60Hz
- Video formats: 1080i, 50, 60Hz, 576p, 50Hz, 576i, 50Hz, 480p, 60Hz, 480i, 60Hz, 1080p, 50, 60Hz, 720p, 50,60 Hz, 2160p, 50, 60Hz

Dimensions
- Set Width: 1241.8 mm
- Product weight: 16.6 kg
- Set Height: 712.6 mm
- Set Depth: 63.6 mm
- Set Width (inch): 48.89 inch
- Set Height (inch): 28.20 inch
- Wall Mount: 400 (H) x 400(V) mm, M6
- Set Depth (inch): 2.50 inch
- Bezel width: 13.9 mm (Even bezel)
- Product weight (lb): 36.60 lb

Operating conditions
- Altitude: 0 ~ 3000 m
- Temperature range (operation): 0 ~ 40 °C
- MTBF: 50,000 hour(s)
- Temperature range (storage): -20 ~ 60 °C
- Humidity range (operation)[RH]: 20 - 80% RH (No condensation)
- Humidity range (storage) [RH]: 5 - 95% RH (No condensation)

Multimedia Applications
- USB Playback Video: MPEG, H.263, H.264, H.265, AVI, MP4, MPEG4, VP8, VP9, WEBM
- USB Playback Picture: BMP, JPEG, PNG
- USB Playback Audio: AAC, HEAAC, MPEG

Internal Player
- CPU: 2x A72 + 4x A53
- GPU: ARM Mali-T860 MP4
- Memory: 4GB RAM
- Storage: 32 GB eMMc

Accessories
- Included Accessories: RS232 daisy-chain cable, Philips logo (x1), AC Switch Cover, USB Cover (x1), Screws, AC Power Cord, IR sensor cable (1.8 m) (x1), Quick start guide, Remote control & AAA batteries, RS232 cable, WiFi module, Wire Clamper (x3)

Miscellaneous
- On-Screen Display Languages: English, French, German, Spanish, Polish, Turkish, Russian, Italian, Simplified Chinese, Traditional Chinese, Arabic, Japanese, Danish, Dutch, Finnish, Norwegian, Portuguese, Swedish
- Warranty: 3 year warranty
- Regulatory approvals: CE, RoHS, CB, FCC, Class A, CCC, EMF, EnergyStar 8.0, UL

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