



Philips Signage Solutions
EcoDesign

50"

Direct LED Backlight
Ultra HD



50BDL3650QE

Display better

EcoDesign 18/7 display

Engage your audience with this environmentally conscious 4K Ultra HD digital display. Delivering uncompromised 4K UHD performance while running on half the power compared to other market models, with the very latest PPDS EcoDesign.

Cost-effective system solution

- Android SoC processor. Native and web apps

Effortless setup. Total control.

- FailOver. Ensure content is always running
- Optional Interact for wireless screen share
- PPDS Wave ready for remote management

Smart and powerful

- Connect and control your content via the cloud
- Wifi and Bluetooth 5.2 via optional module

Sustainable quality. EcoDesign

- 100% recycled and recyclable packaging
- EPEAT Silver Climate+ certified
- Consumes >50% less energy compared to equivalent models

PHILIPS

Highlights

PPDS EcoDesign

Designed with manufacturing processes, physical features, materials, packaging, and built-in software that are kinder to the environment and deliver better energy efficiency, the Philips Signage 3650 EcoDesign display is designed to operate using less than half the power of its counterparts, while still delivering the same unrivalled performance.

Powered by Android 10

Powered by our Android 10 SoC platform, these hard-working displays are optimised for native Android apps, and you can install web apps directly onto the display too. Flexible and secure, ensuring display specs stay up to the moment for longer.

SmartBrowser

Connect and control your content via the cloud with the integrated HTML5 browser. Using the Chromium based browser, design your content online and connect a single display, or your complete network. Show

content in both landscape and portrait mode, with full HD resolution. Simply connect the display to the internet using the optional CRD22 Wifi module or via LAN, and enjoy your own created playlists.

EPEAT Silver Climate+certified

Recognised by and registered with EPEAT with a Silver Climate+ Ecolabel, the Philips Signage 3650 EcoDesign meets the robust set of criteria laid out by the world's premier ecolabel for electronics.

FailOver

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

Interact (optional)

Wirelessly screen share using your existing Wifi network to instantly and securely connect devices, or use our optional HDMI Interact dongle to cast directly onto the screen without connecting into the secured network.

PPDS Wave

Unlock the power, versatility and intelligence inside your Philips Signage 3650 EcoDesign 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.

Integrated media player

Easily schedule content to play from USB or from internal memory. Your Philips Professional Display will wake from standby to play the content you want, and then return to standby once playback is done.

Specifications

Connectivity

- Audio output: 3.5mm jack
- Video input: HDMI 2.0 (x2), DVI-I (x 1), USB 2.0 (x2), USB 3.0 (x2)
- Audio input: 3.5 mm jack
- Other connections: micro SD, OPS
- External control: RJ45, RS232C (in/out) 2.5 mm jack, IR (in/out) 3.5 mm jack
- Optional WiFi functionality: CRD22 wifi dongle

Picture/Display

- Diagonal screen size (metric): 125.7 cm
- Diagonal screen size (inch): 49.5 inch
- Aspect ratio: 16:9
- Panel resolution: 3840 x 2160
- Pixel pitch: 0.2854 x 0.2854 mm
- Optimum resolution: 3840 x 2160 @ 60 Hz
- Brightness: 350 cd/m²
- Display colors: 1.06 Billion
- Contrast ratio (typical): 4000:1
- 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 10

Convenience

- Placement: Landscape (18/7), Portrait (18/7)
- Tiled Matrix: Up to 15 x 15
- Keyboard control: Lockable, Hidden
- Remote control signal: Lockable
- Signal loop through: RS232, IR Loophthrough
- Energy saving functions: Smart Power
- Network controllable: RS232, RJ45

Sound

- Built-in speakers: 2 x 10W RMS

Power

- Mains power: 100 - 240V~, 50/60Hz
- Consumption (Typical): 56 W
- Consumption (Max): 103 W
- Standby power consumption: <0.5W
- Power Saving Features: Smart Power
- Energy Label Class: E

Supported Display Resolution

- Computer formats: 832 x 624, 75Hz, 1024 x 768, 60, 70, 75Hz, 1152 x 864, 75Hz, 1152 x 870, 75Hz, 1280 x 1024, 60Hz, 1280 x 720, 60Hz, 1280 x 800, 60Hz, 1440 x 900, 60Hz, 1600 x 1200, 60Hz, 1680

- x 1050, 60Hz, 1920 x 1080, 60Hz, 3840 x 2160, 24,25,30,60Hz, 640 x 480, 60, 67, 72, 75Hz, 720 x 400, 70Hz, 800 x 600, 56, 60, 72, 75Hz
- Video formats: 1080p, 50, 60Hz, 1080i, 50, 60Hz, 3840 x 2160p,24,25,30,60Hz, 480i, 60Hz, 480p, 60Hz, 720p, 50,60 Hz

Dimensions

- Set Width: 1128.4 mm
- Product weight: 14.25 kg
- Set Height: 649.0 mm
- Set Depth: 63.5 mm
- Set Width (inch): 44.43 inch
- Set Height (inch): 25.55 inch
- Wall Mount: 400mm x 400mm , M6
- Set Depth (inch): 2.50 inch
- Bezel width: 14.9 mm (Even bezel)
- Product weight (lb): 31.42 lb

Operating conditions

- Altitude: 0 ~ 3000 m
- Temperature range (operation): 0 ~ 40 °C
- MTBF: 30,000 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: H.263, H.264, H.265, MPEG1/2, MPEG4, VP8, VP9
- USB Playback Picture: JPEG, BMP, PNG
- USB Playback Audio: AAC, HEAAC, MPEG

Internal Player

- CPU: Dual core cortex A53 1.1G Hz, Dual core cortex A73 1.15G Hz, Quad Core Cortex A55
- GPU: G52 MC1
- Memory: 16GB, 3GB DDR

Accessories

- Included Accessories: IR sensor cable (1.8 m) (x1), RS232 daisy-chain cable, Philips logo (x1), AC Power Cord, AC Switch Cover, Cable clip (x2), Quick start guide, RS232 cable, USB Cover (x1)

Miscellaneous

- On-Screen Display Languages: English, French, German, Italian, Polish, Russian, Spanish, Turkish, Simplified Chinese, Traditional Chinese, Arabic, Japanese
- Warranty: 3 year warranty
- Regulatory approvals: CE, CB, BSMI, FCC, Class A, VCCI, J-Moss, ETL, RoHS



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