Philips
E-Line Display

46"
Edge LED Backlight
Full HD

BDL4650EL

Deliver your marketing messages in style

with this sleek LED display

Maximising your content delivery whilst lowering your TCO has never been so easy or stunning. This 46" display offers gorgeous full HD picture quality with lower power consumption thanks to the edge LED backlight.

Lower total cost of ownership
- SmartPower for energy saving

Optimised for public viewing
- Full HD LCD display, 1920 x 1080p

Operational flexibility
- Edge LED Backlight
- Display Port for faster graphics support
- Smart Control Software Suite
- Enhanced zoom feature supports tiled matrix applications
- Portrait mode operability
- Designed for 24/7 operation
- Smart insert in the back cover to place a small PC
- Remote Management and Configuration via RS232
- IR Pass-through
- Keep your content up and running with FailOver

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Highlights

Full HD LCD display 1920 x 1080p

This display has a resolution that is referred to as Full HD. The state-of-the-art LCD screen technology has the full high definition widescreen resolution of 1080 progressive lines, each with 1920 pixels. This allows the best possible picture quality for HD input signals with up to 1080 lines. It produces brilliant flicker-free progressive scan pictures with optimum brightness and superb colours. This vibrant and sharp image will provide you with an enhanced viewing experience.

Edge LED Backlight

Experience an even dispersion of light with cutting edge LED technology. White LED's (light emitting diodes) are positioned around the rim of the panel to give a more even spread of light. This results in even lower power consumption, less heat to dissipate and a true, uniform colour range.
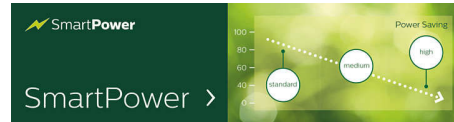
Smart Control

Control and manage all of the signage displays on your network with this powerful software tool, which allows you to change the settings of your display centrally via an RJ45 or RS232 connection. Smart Control allows you to set the video input, modify the colour settings, set the display's ID when creating video walls and even diagnose each display's status, giving you all the power you need to manage your displays from one central location.

Smart Insert

Professional PCs are part of most public signage installations. Quite often they increase the overall depth of the display and cause a lot of cable clutter. So we have designed this display with Smart insert in the back cover, which is ideal for the integration of a professional small form factor PC. On top of that, the cable management system offers a great solution to keep your cables neat and professional-looking.

SmartPower

The backlight intensity can be controlled and pre-set by the system to reduce the power consumption by up to 50%, which saves substantially on energy costs.

FailOver

Keeping your content up and running is critical for demanding commercial applications. While it is unlikely you will face a content disaster, FailOver provides content protection with a revolutionary technology that plays back-up content on screen in the event of a media player failure. FailOver automatically kicks in when the primary input fails. Simply select a primary input connection and a FailOver connection and you're ready for instant protection.

Portrait mounting possible

This display can also be safely and reliably mounted in portrait position.

Zoom function for tiled matrix

The internal zoom function enables easy implementation of a video wall matrix, without the need for expensive external equipment. Capable of many different configurations, creating a stunning video wall has become simplicity itself.

IR Pass-through

Control all displays in your signage network through one single remote control, via the primary display. Simple and convenient, this means you don't have to worry about other displays changing configuration settings when using your remote control unit.
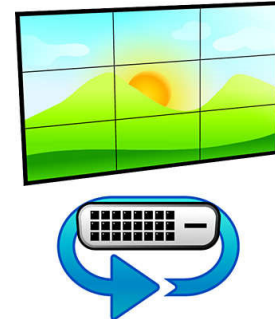
Remote Management: RS232

Remote Management allows the user to control and adjust the displays remotely via the RS232 protocol. Using CEC commands, you are able to have full control over all the displays in your signage network at any time.

Display Port

Enjoy crystal-clear images with the high-bandwidth graphics support of the Display Port. As well as transmitting full high-definition video, the Display Port will also transmit audio, thus, eliminating the need for extra cables.

Designed for 24/7 operation

Because business never sleeps, our signage displays are designed for 24/7 use. Taking advantage of superior components to ensure a higher level of quality, you can count on this range of models for complete around-the-clock reliability.

Specifications

Picture/Display
- Diagonal screen size (metric): 117 cm
- Diagonal screen size (inch): 46 inch
- Aspect ratio: 16:9
- Panel resolution: 1920 x 1080p
- Pixel pitch: 0.17675 x 0.53025 mm
- Optimum resolution: 1920 x 1080 @ 60 Hz
- Brightness: 500 cd/m²
- Display colours: 1.07 billion
- Contrast ratio (typical): 4000:1
- Response time (typical): 6.5 ms
- Viewing angle (horizontal): 178 degree
- Viewing angle (vertical): 178 degree
- Picture enhancement: 3/2 - 2/2 motion pull down, 3D Combfilter, Motion compens. deinterlacing, 3D MA deinterlacing, Dynamic contrast enhancement

Connectivity
- PC: RJ45, VGA-in D-Sub 15HD, VGA-out (via DVI-I), RS232 D-Sub9, RS232 D-sub9 output, 3.5 mm PC audio input x 1
- AV input: DVI-D x 1, Component (BNC) x 1, Composite (BNC) x 1
- AV output: Audio (L/R) x 1
- Other connections: Display Port, DVI Out, HDMI, AC-out, IR out, External loudspeaker connector

Convenience
- Placement: Landscape, Portrait
- Picture in picture: PBP, PIP, POP
- Tiled Matrix: Up to 5 x 5
- Keyboard control: Hidden, Lockable
- Signal loop through: DVI, VGA, RS232, IR Loop through
- Ease of installation: Smart Insert, AC Out
- Energy-saving functions: Smart Power
- Other convenience: Carrying handles
- Network controllable: RJ45, RS232, HDMI (One Wire)
- Packaging: Reusable box

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

Power
- Mains power: 100 ~ 240 VAC, 50 ~ 60 Hz

- Consumption (On mode): 66.89 W (EnergyStar 6.0 test method)
- Standby power consumption: <0.5 W

Supported Display Resolution
- Computer formats: 1920 x 1200, 60 Hz, 1920 x 1080, 60 Hz, 1600 x 1200, 60 Hz, 1440 x 900, 60 Hz, 1366 x 768, 60 Hz, 1360 x 768, 60 Hz, 1280 x 1024, 60 Hz, 1280 x 800, 60 Hz, 1280 x 768, 60 Hz, 1024 x 768, 60 Hz, 800 x 600, 60, 72, 75 Hz, 640 x 480, 60, 67, 72, 75 Hz
- Video formats: 480i, 60 Hz, 480p, 60 Hz, 576p, 50 Hz, 576i, 50 Hz, 720p, 50, 60 Hz, 1080i, 50, 60 Hz, 1080p, 50, 60 Hz

Dimensions
- Smart Insert mount: 100 x 100 mm, 100 x 200 mm
- Set Width: 1052.7 mm
- Product weight: 22 kg
- Set Height: 607.3 mm
- Set Depth: 69 mm
- Wall Mount: 400 x 400 mm, 400 x 200 mm, 200 x 200 mm
- Bezel width: 15.8 mm

Operating conditions
- Altitude: 0 ~ 3000 m
- Temperature range (operation): 0 ~ 40 °C
- MTBF: 60,000 hour(s)
- Relative humidity: 20 ~ 80 %
- Temperature range (storage): -20 ~ 60 °C

Accessories
- Included accessories: Remote Control, Batteries for remote control, AC Power Cord, VGA cable, User manual on CD-ROM, Quick start guide
- Stand: BM05462 (Optional)

Miscellaneous
- On-Screen Display Languages: English, French, German, Spanish, Polish, Turkish, Russian, Simplified Chinese, Italian
- Warranty: 3-year warranty
- Regulatory approvals: CE, FCC, Class B, UL/cUL, CCC, C-Tick, RoHS, GOST

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