Philips
LED Display

140 cm (55")
edge LED
Full HD

BDL5531EL

Enthrall your audience

with the narrow bezel, full HD LED display

Deliver startlingly clear images in a more eco-friendly way with the edge LED display. High on performance and reliability, yet low on power consumption, it is ideal for projects where no compromise is accepted.

Lower total cost of ownership
- SmartPower for energy saving
- Brightness automatically adjusts with ambient conditions
- Advanced anti image sticking function

Optimized for public viewing
- Full HD LCD display, 1920x1080p

Operational flexibility
- Edge LED Backlight
- 120 Hz Panel
- VGA Loopthrough
- Enhanced zoom feature supports tiled matrix applications
- Smart insert in the backcover to place a small pc

Sustainable and safe
- Temperature sensor measures the health condition
- Complies with RoHS standards to care for the environment

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Highlights

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 color range.

120 Hz Panel
Enjoy stunningly clear video images thanks to the 120 Hz panel. Even fast moving action scenes can be seen with no blur, enhancing your viewing experience.

Smart Insert
Professional PC's are part of most public signage installations. Quite often they increase the overall depth to 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.

Advanced anti image sticking
Static images left on-screen for extended periods of time may leave a "ghost image" or image sticking effect on LCD displays. Although image sticking in LCD displays is not permanent, you want to prevent this to happen, especially in locations where content is shown 24/7.

Automatic brightness control
The adjustment of display settings to correspond with ambient light without user intervention.

Full HD LCD display 1920x1080p
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 colors. This vibrant and sharp image will provide you with an enhanced viewing experience.

Compliant with RoHS standards
Philips designs and produces display products in compliance with strict Restriction of Hazardous Substances (RoHS) standards that restrict lead and other toxic substances that can harm the environment.

Temperature sensor
This public dispay contains a temperature sensor to monitor the internal health condition. In case the internal temperature surpasses the preset threshold, automatically two internal fans will be activated to cool down the display to normal conditions.

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.

VGA Loopthrough
Connect multiple displays to create a video wall of up to 150 displays via a VGA daisy chain thus enhancing your visual experience. With no additional hardware required, they are as simple to installl as they are captivating to your audience.

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Specifications

Picture/Display
- Diagonal screen size (metric): 138.6 cm
- Diagonal screen size (inch): 54.6 inch
- Aspect ratio: 16:9
- Panel resolution: 1920x1080p
- Pixel pitch: 0.21 x 0.63 mm
- Optimum resolution: 1920 x 1080 @ 60 Hz
- Brightness: 450 cd/m²
- Display colors: 1.06 Billlion
- Contrast ratio (typical): 1300:1
- Response time (typical): 12 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, Progressive scan, 3D MA deinterlacing, Dynamic contrast enhancement
- Display technology: 120 Hz Panel

Connectivity
- PC: VGA-in D-Sub 15HD, VGA-out D-Sub 15HD, DVI-D x1, RS232 D-Sub9, RS232 D-sub9 output, 3.5 mm PC audio input x1
- AV input: HDMI x1, Audio (L/R) x2, Composite (BNC) x1, Component RCA, S-video x1

Convenience
- Placement: Portrait, Landscape
- Picture in picture: PIP
- Tiled Matrix: Up to 5 x 5
- Screen saving functions: Pixel Shift, Low Brightness
- Keyboard control: Hidden, Lockable
- Remote control signal: Lockable
- Signal loop through: RS232, VGA
- Ease of installation: AC Out, Carrying Handles, Smart Insert
- Energy saving functions: Ambient light sensor, Smart Power
- Safety control functions: Heat Control, Temperature Sensor
- Network controllable: RS232
- Packaging: Reusable box

Sound
- Built-in speakers: 2 x 12W RMS

Power
- Consumption (On mode): 138 W
- Standby power consumption: <1W

Supported Display Resolution
- Computer formats: 640 x 480, 60, 67, 72, 75Hz, 800 x 600, 56, 60, 72, 75Hz, 1024 x 768, 60Hz, 1280 x 768, 60Hz, 1280 x 800, 60Hz, 1360 x 768, 60Hz, 1366 x 768, 60Hz, 1440 x 900, 60Hz, 1600 x 1200, 60Hz, 1920 x 1080, 60Hz, 1920 x 1200, 60Hz
- Video formats: 480i, 60Hz, 480p, 60Hz, 576p, 50Hz, 576i, 50Hz, 720p, 50, 60Hz, 1080i, 50, 60Hz, 1080p, 50, 60Hz

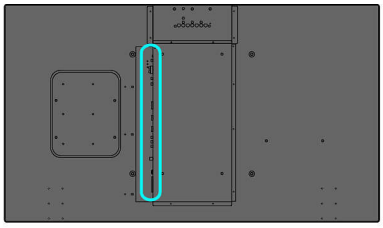
Dimensions
- Bezel thickness: 24.6mm / 0.95"
- Set Width: 1259.8 mm
- Set Height: 732.1 mm
- Set Depth: 59 mm
- Set Width (inch): 49.6 inch
- Set Height (inch): 28.8 inch
- Wall Mount: 200 x 400 mm
- Set Depth (inch): 2.2 inch

Technical specifications
- Backlight: Edge LED

Operating conditions
- Temperature range (operation): 0 - 40 °C
- MTBF: 60,000 hour(s)
- Relative humidity: 5 - 90 %

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

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



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