

Philips  
plasma monitor

50"  
WXGA

BDH502 IV



# High Resolution Public Display

## 50" Wide WXGA Plasma Monitor

State of the art plasma monitor designed for boardroom and indoor venue display applications. The high class scaler, advanced digital video processing and latest plasma technology guarantee optimal display of (HD) video, text or graphics.

### Optimized for public viewing

- 3:2 Pulldown eliminates artefacts when watching movies
- 3D combfilter separates colors for a razor-sharp image
- PiP allows watching a second source simultaneously
- HD ready for the highest quality display of HDTV signals
- Motion compensated deinterlacing
- High Definition plasma WXGA display, 1366 x 768p

### Lower total cost of ownership

- DVI cable included to provide highest picture quality
- Long expected panel lifetime of over 60.000 hours
- Advanced anti burn-in functions to prevent ghost images

### Operational flexibility for different applications

- Monitor is network controllable for remote management
- Multiple PC input formats up to WXGA
- Multiple video input formats up to SXGA and HDTV compatible

**PHILIPS**  
sense and simplicity

## Specifications

### Picture/Display

- **Display screen type:** WXGA Plasma panel
- **Panel Size:** 50" / 127cm
- **Aspect ratio:** 16:9
- **Panel resolution:** 1366 x 768p
- **Effective viewing area:** 1107 x 622mm
- **Pixel pitch:** 0.81 x 0.81 mm
- **Brightness:** 1000 cd/m<sup>2</sup>
- **Contrast ratio (typical):** 8000:1
- **Display colors:** 16.7 Million colors
- **Viewing angle (H / V):** >160 / >160 degree
- **Horizontal Scanning Frequency:** 30-80 kHz
- **Vertical Scanning Frequency:** 50 - 85 Hz
- **Picture enhancement:** 3/2 - 2/2 motion pull down, 3D Combfilter, Motion compens. deinterlacing, Picture by Picture, Picture in Picture, Progressive Scan

### Supported Display Resolution

#### Computer formats

| Resolution  | Refresh rate |
|-------------|--------------|
| 640 x 480   | 60, 72, 75Hz |
| 800 x 600   | 60, 72, 75Hz |
| 848 x 480   | 60Hz         |
| 1024 x 768  | 60, 70, 75Hz |
| 1280 x 1024 | 60Hz         |
| 1366 x 768  | 60Hz         |

#### Video formats

| Resolution | Refresh rate |
|------------|--------------|
| 480i       | 60Hz         |
| 480p       | 60Hz         |
| 576p       | 50Hz         |
| 576i       | 50Hz         |
| 720p       | 50, 60Hz     |
| 1080i      | 50, 60Hz     |

### Connectivity

- **PC:** DVI-D with HDCP, RS232 D-Sub9, VGA-in D-Sub 15HD
- **Audio input for PC:** Audio Left/Right (RCA 2x)
- **Audio input for DVI:** Audio Left/Right (RCA 2x)
- **AV input:** Component (YPbPr) x1, Audio (L/R) for YPbPr x1, Composite (CVBS) x1, Audio (L/R) x1, S-video x1
- **AV 1:** Audio L/R in, CVBS in
- **AV 2:** Audio L/R in, CVBS in

- **AV output:** Composite (CVBS) x1, Audio (L/R) x1
- **Audio output:** Speaker output 2x 6.3mm jack

### Convenience

- **Convenience Enhancements:** On-screen Display
- **Monitor Controls:** Left/Right, Menu (OK), Power On/Off, Source Select, Up/Down, Volume control
- **OSD Languages:** English, French, German, Italian, Spanish, Dutch
- **Built-in Audio:** Built-in amplifier and 10 Watts RMSx2 stereo speakers
- **Network controllable:** RS232
- **Screen saving functions:** Pixel shift, Image reverse
- **Placement supported:** Portrait, Landscape
- **Regulatory Approvals:** FCC Class B, TÜV, UL/cUL, RoHS

### Power

- **Consumption:** 390 Watts (typical)
- **Power supply:** 100-240VAC, 50/60Hz
- **Sleep Mode:** 5 Watts Max.

### Dimensions

- **Dimensions (without base) (W x H x D):** 1205 x 721 x 114.3 mm
- **Set dimensions in inch (W x H x D):** 47.441 x 28.386 x 4.5 inch
- **Mounting hole pattern (H x V):** 638 x 380 mm
- **Product weight:** 45 kg
- **Product weight (lb):** 99.208
- **Lifetime to 50% brightness:** 60000 hr
- **Temperature (operation):** 0°C to +40°C
- **Temperature (storage):** -20°C to +60°C
- **Temperature range (operation):** +32°F to +104°F
- **Temperature range (storage):** -4°F to 140°F
- **Relative humidity:** 20% - 80%

### Accessories

- **Included Accessories:** Table top stand, DVI-D cable, VGA cable, Remote Control, Battery, AC Power Cord
- **User Guide on CD-ROM:** (RS232 protocol included)
- **User Manual:** English

### Miscellaneous

- **Bezel:** Metallic Antracite

## Product highlights

### Free DVI cable

A DVI cable is standard included with the display to provide the highest possible picture quality.

### 3:2 Pulldown

3:2 Pulldown totally eliminates the unwanted artefacts that distort your picture viewing when watching movies. With these artefacts gone, you will enjoy the movie the way it is meant to be.

### 3D Combfilter

The 3D comb filter separates brightness and color signals better in 3D domain to eliminate cross-color, cross-luminance and dot-crawl distortion - all of which detract from your viewing pleasure. The 3D digital comb filter performs field-by-field comparisons of the television image to accurately separate the color from the black-and-white information and remove both horizontally and vertically hanging dots, as well as dot crawl. The result is a razor sharp image.

### Network controllability: RS232

Network controllability allows user to control and adjust monitors remotely through RS232 protocol.

### Picture In Picture (PIP)

Provides the ability to watch simultaneously two different sources, either two video sources or a combination with data/graphics

### Multiple PC input formats

The product supports PC compatibility for VGA, SVGA, XGA and WXGA. A universal public display solution requires versatile PC input support.

### Multiple video input formats

In common use video content is often supplied in various formats in different resolutions and aspect ratios. Thus the content needs to be reformatted for optimal display on given screen resolution. A high class scaler guarantees optimal reformatting of any video format up to SXGA.

### Long expected panel lifetime

In public display applications 24/7 operation is often required. Even after 60000 hours of operation the brightness level of the display will be at least 50% of the initial value.

### Fanless operation

A system without fans is quiet and doesn't collect dust inside the monitor. No moving parts inside the monitor will thus improve the reliability of the product.

### HD Ready display

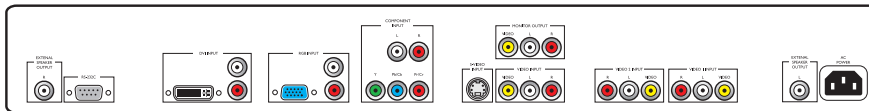
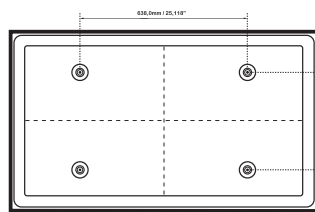
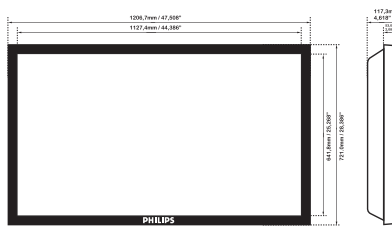
Enjoy the exceptional picture quality of a High Definition TV signal and be fully prepared for HD sources like HDTV broadcast, Blu-ray DVD or HDVD. HD ready is a protected label that offers picture quality beyond that of progressive scan. It conforms to strict standards laid out by EICTA to offer a HD screen that displays the benefits of resolution and picture quality of a High Definition TV signal. It has a universal connection for both analog YPbPr and uncompressed Digital connection of DVI or HDMI, supporting HDCP. It can display 720p, and 1080i signals at 50 and 60Hz.

### Motion comp. deinterlacing

Motion compensated deinterlacing employs a smart deinterlacing algorithm that uses the images in a digital memory to measure and estimate the motion speed and direction of objects to creates new fields with corrected motion positions so video content has perfectly smooth, judder-free, and razor-sharp moving images.

### Plasma WXGA panel, 1366 x 768p

This state-of-the-art plasma screen technology gives you widescreen HD resolution of up to 1366 x 768p pixels. It produces brilliant flicker-free progressive scan pictures in with optimum brightness and superb colors. This vibrant and sharp image will provide you with an enhanced viewing experience.



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UPC: 6 09585 11621 4

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