

Philips
plasma monitor

42"
XGA

BDH4251V



High Resolution Public Display

42" XGA Plasma Monitor

State of the art, cost effective plasma monitor designed for indoor public display applications. The high class deinterlacer, advanced digital video processing and the latest plasma technology guarantee optimal display of your message.

Operational flexibility for different applications

- Hidden and lockable control buttons
- VGA loop through to daisy chain other monitors
- Monitor is network controllable for remote management

Lower total cost of ownership

- Long expected panel lifetime of over 60,000 hours
- Advanced anti burn-in functions to prevent ghost images

Optimised for public viewing

- HDMI input for full digital HD connection in one cable
- Motion Adaptive De-interlacing for razor sharp images
- High brightness (1500 cd/m²) and contrast (15000:1)

Sustainable and safe

- Complies with RoHS standards of care for the environment

PHILIPS

Highlights

HDMI input



HDMI makes an uncompressed digital RGB connection from the source to the screen. By eliminating conversion to an analogue signal, it delivers an unblemished image. The non-degraded signal reduces flicker and leads to a clearer picture. HDMI intelligently communicates the highest output resolution with the source device. The HDMI input is fully backwards-compatible with DVI sources but includes digital audio. HDMI uses HDCP copy protection.

High brightness and contrast

High brightness and contrast values are extremely beneficial in public environments where lighting conditions are variable and often beyond control.

Motion adaptive de-interlacing

This smart de-interlacing algorithm is able to detect the type of video source (such as Still Picture, Motion Picture or Film) and automatically optimise the de-interlacing process with Spatial, Temporal or Film mode de-interlacing. The result is that it delivers razor sharp and stable images every time.

Network controllability: RS232

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

VGA loop through

In case more than one screen needs to share the same input signal, VGA loop through offers a cost effective solution in which the VGA input signal is amplified and made available on a VGA output connector which can be connected to the next monitor

Hidden and control buttons

The local control buttons of the display are placed in such a way that they are less visible for immediate access. Furthermore, the remote control sensor and the local control buttons can be disabled via RS232 to prevent

unauthorised control of the display when placed in a public space.

Advanced anti burn-in function

A protective function called "pixel shift" has been implemented. When the protection mechanism is activated the screen image automatically shifts its pixel positions to prevent "image ghosting". Secondly, burn-in recovery has been implemented. Depending on the model, ghost images are removed by applying a full white signal on the whole panel for a certain amount of time or by reversing the image to achieve the same result.

Long expected panel lifetime

In public display applications 24/7 operation is often required. Even after 60,000 hours of operation the brightness level of the display will be at least 50% of the initial value.

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.



Specifications

Connectivity

- Audio output: Audio L/R x 1, External loudspeaker connector
- PC: RS232 D-Sub9, VGA-in D-Sub 15HD, VGA-out D-Sub 15HD
- AV input: Component (YPbPr) x 1, Audio (L/R) for YPbPr x 1, Composite (CVBS) x 1, Audio (L/R) x 1, S-video x 1, Scart 2 x, HDMI x 1
- AV output: Composite (CVBS) x 1, Audio (L/R) x 1
- Other connections: S/PDIF out (coaxial)
- Audio input for PC: Audio Left/Right (RCA 2 x)

Picture/Display

- Diagonal screen size (metric): 107 cm
- Diagonal screen size (inch): 42 inch
- Aspect ratio: 16:9
- Panel resolution: 1024 x 768
- Brightness: 1500 cd/m²
- Display colours: 1.07 Billion colours
- Contrast ratio (typical): 15000:1
- Viewing angle (horizontal): >160 degree
- Viewing angle (vertical): >160 degree
- Picture enhancement: 3/2 - 2/2 motion pull down, 3D Combfilter, Motion compens. deinterlacing, 3D MA deinterlacing, Picture by Picture, Picture in Picture, Progressive scan, Automatic skin tone correction, Colour Enhancement, Noise Reduction
- Vertical Scanning Frequency: 50–85 Hz
- Display screen type: XGA Plasma panel

Convenience

- Placement: Portrait, Landscape
- Screen-saving functions: Pixel shift, Image reverse, low bright
- User convenience: On-screen Display
- Regulatory approvals: CE Mark, RoHS
- Network controllable: RS232
- Screen Format Adjustments: 4:3, Subtitle Zoom, Superwide, Widescreen, Zoom 14:9, Zoom 16:9

Sound

- Output power (RMS): 2 X 10 W
- Sound System: Mono, Stereo

Power

- Power supply: 100-240 VAC, 50/60 Hz
- Consumption (On mode): 320 Watts (typical)
- Standby power consumption: <1 W

Supported Display Resolution

- Computer formats: 640 x 480, 60, 72, 75 Hz, 800 x 600, 60, 72, 75 Hz, 1024 x 768, 60 Hz, 720 x 400, 70 Hz
- Video formats: 480i, 60 Hz, 480p, 60 Hz, 576p, 50 Hz, 576i, 50 Hz, 720p, 50, 60 Hz, 1080i, 50, 60 Hz

Dimensions

- Lifetime to 50% brightness: 60000 hour(s)
- Box depth: 330 mm
- Box height: 790 mm
- Box width: 1260 mm
- Set height (with stand): 716 mm
- Set height (with stand) (inch): 28.19 inch
- Set Width: 1039 mm
- Product weight: 30.4 kg
- Set depth (with stand): 280 mm
- Set Height: 628 mm
- Set Depth: 88 mm
- Set depth (with stand) (inch): 11.02 inch
- Set Width (inch): 49.9 inch
- Set Height (inch): 24.72 inch
- Set Depth (inch): 3.46 inch
- Box depth (inch): 13.0 inch
- Box height (inch): 31.1 inch
- Box width (inch): 49.6 inch
- Product weight (lb): 67.02 lb
- Weight incl. Packaging: 37.85 kg
- Weight incl. Packaging (lb): 83.44

Technical specifications

- Operating temperature range: 0-40 °C
- Relative humidity range: 20% - 80%

Tuner/Reception/Transmission

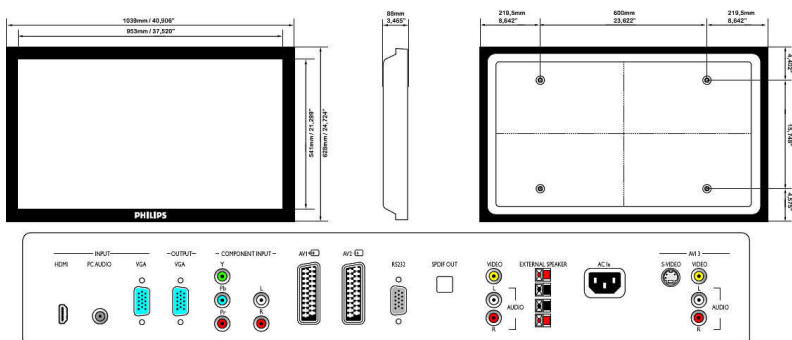
- Video Playback: NTSC, PAL, SECAM

Accessories

- Included accessories: Tabletop stand, VGA cable, Remote Control, AC Power Cord, Batteries for remote control, User manual on CD-ROM
- Optional accessories: Speakers BAH4251S1, Ceiling mount BM04111 and BM01111, Fixed wall mount BM02111, Flex wall mount BM04111 and BM02212

Miscellaneous

- Bezel: Metallic Anthracite



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