

19" (18.0" VIS) Real Flat monitor

109P₁₀

BRILLIANCE 109P

Product description

- 19-inch (18.0" VIS) Real Flat color monitor featuring ICE technology for excellent front of screen performance for use with MACs, PCs or Workstations
- Autoscan covers horizontal frequencies up to 110 KHz offering a maximum resolution of 1920 x 1440 with flicker free display of 1280 x 1024 at up to 103 Hz
- Flat aperture grille CRT with high-resolution 0.25 mm grille pitch.
- Auto Calibrate extends the useful life of the monitor by automatically adjusting color and luminance to original values
- Large screen display in a small footprint: World's shortest 19-inch Flat monitor with maximum depth of only 438mm/17.2"
- Outstanding ease of use thanks to CustoMax[®] monitor control software via USB
- TCO99, E2000, NUTEK, EPA, FCC, CE and ISO9241 certified



Auto Calibrate



CustoMax
interactive monitor software

**Plug
and
Play**



(at selected countries)



CustoMax[®] control via USB

Optional USB HUB PCUH411



Let's make things better.



PHILIPS

Technical Specifications

CRT

- Size (inch/cm) 19"/ 46 cm
- Deflection angle (degrees) 90°
- Grille pitch 0.25 mm
- Tube type Aperture grille, Flat, High Contrast, Anti Glare, Anti Static, Anti reflection, Light Transmission 41% B22
- Phosphor B22
- Recom. display area(mm) 355 x 265 mm
- Recom. display area(inch) 14" x 10.4"
- Max. display area(mm) 365 x 274 mm
- Max. display area(inch) 14.4" x 10.8"

Scanning

- Horizontal scanning 30 - 110 KHz
- Vertical scanning 50 - 160 Hz

Video

- Video dot rate 261 MHz
- Input impedance
 - Video 75 Ohm
 - Sync 2.2k Ohm
- Input signal levels 0.7 Vpp
- Sync input signal Separate sync Composite sync
- Sync polarities Positive and negative

White color temperature

- at 9300 K: x=0.283, y=0.297
- at 6500 K: x=0.313, y=0.329
- at 5500 K: x=0.332, y=0.347

Resolution and preset modes

- Max. resolution 1920 x 1440
 - Recom. resolution 1280 x 1024
 - 16 user definable modes
 - 36 factory preset modes:
- | | H.freq (kHz)/V.freq (Hz) |
|-------------|---|
| 640 x 350 | 31.5K/70; 37.9K/85 |
| 640 x 480 | 31.5K/60; 37.9K/72; 37.5K/75; 43.3K/85; 50.6K/100 |
| 720 x 400 | 31.5K/70; 37.9K/85 |
| 800 x 600 | 37.9K/60; 48.1K/72; 46.9K/75; 53.7K/85; 63.9K/100 |
| 832 x 624 | 49.7K/75 |
| 1024 x 768 | 48.4K/60; 56.5K/70; 60.0K/75; 68.7K/85 |
| 1152 x 864 | 67.5K/75 |
| 1152 x 870 | 68.7K/75 |
| 1152 x 900 | 71.8K/76 |
| 1280 x 960 | 60.0K/60; 85.9K/85 |
| 1280 x 1024 | 64.0K/60; 80.0K/75; 91.1K/85 |
| 1600 x 1200 | 75.0K/60; 81.3K/65; 87.5K/70; 93.8K/75; 106.3K/85 |
| 1792 x 1344 | 83.6K/60; 106.3K/75 |
| 1856 x 1392 | 86.3K/60 |
| 1920 x 1440 | 90.0K/60 |

Plug and play compatibility

- Display Data Channel DDC 1/2B
- Microsoft®, Windows® 95/98/NT compatible

Power management

Complies with EPA Energy Star and NUTEK specifications

- Operation (typ.) 120 W
- Suspend/Stand By mode (typ.) < 6 W
- Off mode/ Deep Sleep < 3 W

Low-emission characteristics

- Complies with MPR-II and TCO '99 specifications

Monitor controls and functions

- Main 5-button OSD
Brightness +/- direct access
Contrast +/- direct access
Input selection direct access
- On Screen Display Language (English, Spanish, French, German, Italian), zoom, horizontal, vertical, pincushion, balanced, trapezoid, parallelogram, color, reset, degauss, moire, serial number, resolution, frequency
Convergence, purity
Input selection
Auto Calibrate
- CustoMax® via USB Adjustments, test patterns, on screen help
- Auto Calibrate Automatic and manual calibration of color temperature, brightness and contrast levels to original setting.
- Automatic correction Automatic convergence and purity correction due to thermal or magnetic influence

Connections and Cables

- Connections
 - Video 15-pin D-Shell/ 5BNC
 - USB upstream port
- Cables Video, Power and USB

Regulatory approvals

- TCO '99
- MPR-II Low Emission
- TÜV/GS, TÜV-Ergo
- FCC-B, UL, CSA, DHHS
- SEMKO, Poland-B sign, C-Tick
- VCC-I, CE, BCIQ, PSB

Physical specifications

- Dim. incl. base (WxHxD)(mm) 456 x 469 x 438
- Dim. incl. base (WxHxD)(inch) 17.9" x 18.5" x 17.2"
- Dim. excl. base (WxHxD)(mm) 456 x 419 x 438
- Dim. excl. base (WxHxD)(inch) 17.9" x 16.5" x 17.2"
- Weight (kg) 23.5 kg
- Power supply 90 - 264 VAC, 50/60Hz
- Temperature (operational) 0°C to +35°C/ 32° to 95°F
- Temperature (storage) -25°C to +65°C/ -13° to 149°F
- Relative humidity 5% to 95%
- MTBF (excl. CRT) > 75,000 H

Other

- USB Hub option type: PCUH411

This monitor fulfills all Nutek requirements regarding power management
Philips is a partner in the EPA's Energy Star Computers Program.
As an Energy Star partner, Philips has determined that this product meets the Energy Star guidelines for energy efficiency.
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MS-DOS is a registered trademark and Windows® 95/98/NT is a trademark of Microsoft Corp.
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