



- **Breakthrough Real Flat tube**
Experience natural viewing with no distortion and less reflection with Philips REAL FLAT shadow mask monitors
- **LightFrame™ 2**
By increasing brightness and resolution in user selected areas, Philips patented technology dramatically improves photo and video display without sacrificing performance for text-based applications.
- **XtraSpace Design™**
Moving beyond industry standards, Philips monitors increase available desk space while delivering the shortest front-to-back desk space requirement in the industry.
- **Philips First Choice Program**
One-call support includes a comprehensive 3-year warranty with a 1-year 48-hour advance swap guarantee



**REAL
FLAT**



XSD
XtraSpace Design



Philips Business Series Monitors



Optional USB Hub
attached to standard base



Optional
Multimedia Base



Black Model

Let's make things better.



PHILIPS

Product Number 109B20 (Mist White)
109B23 (Stealth Black)

Technical Specifications

CRT

- Size (inch/cm) 19"/ 46 cm (18.0" VIS)
- Deflection Angle (degrees) 90°
- Dot Pitch 0.25 mm
- Horizontal Pitch 0.21 mm
- Tube Type REAL FLAT, Flat Shadow Mask, High Contrast, Anti-Glare, Anti-Static, Anti-Reflection, Light Transmission 44% P22
- Phosphor P22
- Recom. Display Area(mm) 355 x 265 mm
- Recom. Display Area(inch) 14" x 10.4"
- Max. Display Area(mm) 360 x 270 mm
- Max. Display Area(inch) 14.17" x 10.63"

Scanning

- Horizontal Scanning 30 - 97kHz
- Vertical Scanning 50 - 160Hz

Video

- Video Dot Rate 202.5MHz
- Input Impedance -Video 75Ω
- Sync 2.2kΩ
- Input Signal Levels 0.7 Vp-p
- Sync Input Signal Separate Sync
- Composite Sync
- Positive and Negative

White Color Temperature

Chromaticity CIE Coordinates:

- 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
- 35 Factory Preset Modes:

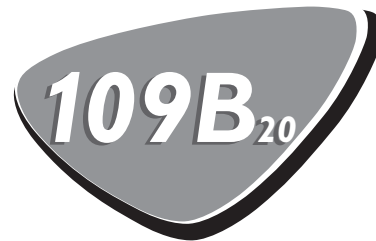
Resolution	H.freq	V.freq	Resolution	H.freq	V.freq
640 x 350	31.5(kHz)	70(Hz)	1024 x 768	60.0	75
640 x 350	31.5	70	1024 x 768	68.7	85
640 x 350	37.9	85	1152 x 864	67.5	75
640 x 480	31.5	60	1152 x 864	77	85
640 x 480	37.9	72	1152 x 870	68.7	75
640 x 480	37.5	75	1152 x 900	71.8	76
640 x 480	43.3	85	1280 x 960	60.0	60
640 x 480	50.6	100	1280 x 960	85.9	85
720 x 400	31.5	70	1280 x 1024	64.0	60
720 x 400	37.9	85	1280 x 1024	80.0	75
800 x 600	37.9	60	1280 x 1024	91.1	85
800 x 600	48.1	72	1600 x 1200	75.0	60
800 x 600	46.9	75	1600 x 1200	81.3	65
800 x 600	53.7	85	1600 x 1200	87.5	70
800 x 600	63.9	100	1600 x 1200	93.8	75
832 x 624	49.7	75	1792 x 1344	83.6	60
1024 x 768	48.4	60	1856 x 1392	86.3	60
1024 x 768	56.5	70	1920 x 1440	90.0	60

Plug and Play Compatibility

- Display Data Channel DDC 1/2B
- Microsoft®, Windows® 95/98/2000/NT Compatible

Power Management

- Complies with EPA Energy Star, and NUTEK Specifications
- Operation (typ.) 100 W
- Suspend/Stand-By Mode (typ.) < 10 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
- Language (English, Spanish, French, German, Italian), Zoom, Horiz/Vert Position and Size, Pincushion, Balanced, Trapezoid, Parallelogram, Color, Reset
- Degauss, Moire, Serial Number, Resolution, Frequency
- OSD

Connections and Cables

- Connections -Video 15-pin D-Sub Input
- Cables Video (fixed) and Power

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

- UPC Code 109B20 0 37849 89860 4
- 109B23 0 37849 92144 9
- Unit Dimensions (WxHxD) 17.30" x 17.60" x 17.64"
- 440 x 447 x 448 mm (incl base)
- 17.3" x 15.7" x 17.6"
- 410 x 410 x 448 mm (excl base)
- Unit Weight 46.6 lbs./21.2 kg
- Carton Dimensions (WxHxD) 21.9" x 20.5" x 21.3"
- 556 x 540 x 520 mm
- Carton Weight 53.0 lbs./24.1 kg
- Power Supply 90 - 264 VAC, 50/60Hz
- Temperature (operating) 0°C to +40°C/ 32° to 104°F
- Temperature (storage) -25°C to +65°C/ -13° to 149°F
- Relative Humidity 5% to 95%
- MTBF (excl. CRT) > 75,000 H

Optional Accessories

- USB Hub Option Type PCUH411
- Multimedia Base Option Type 6G3B11

Carton contains: 109B20 Monitor, power cord, and user's manual on CD.

INTERNET ADDRESS: <http://www.philips.com>
 TECHNICAL SUPPORT: (877) 835-1838 (USA)
 (903) 242-4804 (outside USA)

Specifications subject to change without notice.

Let's make things better.



PHILIPS

Literature Order Number: 109B20
 Printed in the U.S.A. ©2002 Philips Consumer Electronics Co. A Division of Philips Electronics North America Corp. We recommend using 1024 x 768 at 60Hz non-interlaced mode for the best picture quality. As an Energy Star partner, Philips has determined that this product meets the Energy Star guidelines for energy efficiency. Microsoft and Windows are registered trademarks of Microsoft Corporation. Macintosh is a registered trademark of Apple Computer, Inc. Resolution 1024 x 768 standard size, contrast max., brightness 50%, 9300K full white pattern, without AudioUSB, 1191-0202.