

- **19-inch (18.0" VIS) Color CRT Monitor**
Enjoy excellent display performance providing an optimum resolution of 1280 x 1024 for amazing image clarity and sRGB compatibility for better color matching.
- **Breakthrough Real Flat Tube**
Experience natural viewing with no distortion and less reflection with Philips Real Flat monitors.
- **Superior Display with Auto Calibrate**
With Philips exclusive Auto Calibrate technology, the 109P keeps brightness and color output constant over time – automatically.
- **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**



Auto Calibrate

XSD
XtraSpace Design



Optional USB Hub
attached to standard base
PCUH411



Philips Professional Series Monitors

Let's make things better.



PHILIPS

Product Number 190P40

Technical Specifications

CRT

- Size (inch/cm) 19.0 inch / 46 cm (18.0" VIS)
- Deflection Angle (degrees) 90°
- Grille Pitch 0.24 mm uni-pitch
- Tube Type Aperture Grille, Real Flat, High Contrast, Anti-glare, Anti-static, Anti-reflection, Light Transmission 41%
- Phosphor B22
- Recom. Display Area (mm) 355 x 265 mm
- Recom. Display Area (inch) 14.0" x 10.4"
- Max. Display Area (mm) 365 x 274 mm
- Max. Display Area (inch) 14.4" x 10.8"

Scanning

- Horizontal Scanning 30 - 111 kHz
- Vertical Scanning 50 - 160 Hz

Video

- Video Dot Rate 261 MHz
- Input Impedance
 - Video 75Ω
 - Sync 2.2kΩ
- Input Signal Levels 0.7 Vp-p
- Sync Input Signal Separate Sync Composite Sync Positive and Negative
- Sync Polarities

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: $x=0.332, y=0.347$
- sRGB

Resolution and Preset Modes

- Max. Resolution 1920 x 1440
- Recom. Resolution 1280 x 1024
- GTF
- 16 User Definable Modes
- 30 Factory Preset Modes:

Resolution	H.freq	V.freq	Resolution	H.freq	V.freq
640 x 480	31.5(kHz)	60(Hz)	1024 x 768	68.7	85
640 x 480	37.9	72	1152 x 870	68.7	75
640 x 480	37.5	75	1280 x 960	85.9	85
640 x 480	43.3	85	1280 x 1024	64.0	60
640 x 480	50.6	100	1280 x 1024	80.0	75
720 x 400	31.5	70	1280 x 1024	91.1	85
800 x 600	37.9	60	1600 X 1200	75.0	60
800 x 600	48.1	72	1600 X 1200	81.3	65
800 x 600	46.9	75	1600 X 1200	87.5	70
800 x 600	53.7	85	1600 X 1200	93.8	75
800 x 600	63.9	100	1600 X 1200	106.3	85
832 x 624	49.7	75	1792 X 1344	83.6	60
1024 x 768	48.4	60	1792 X 1344	106.3	75
1024 x 768	56.5	70	1856 X 1392	86.3	60
1024 x 768	60.0	75	1920 X 1440	90.0	60

Plug and Play Compatibility

- Display Data Channel DDC 2B
- Microsoft® Windows® 95/98/Me & 2000/NT/XP Compatible

Power Management

Complies with EPA Energy Star specifications

- Operation 120 W (typical)
- Suspend/Stand By Mode < 6 W
- Off Mode/Deep Sleep Mode < 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, sRGB, Reset, Degauss, Moire, Serial Number, Resolution, Frequency, Convergence, Purity, Input Selection, Auto Calibrate Automatic and manual calibration of color temperature, brightness and contrast levels to original setting
- Auto Calibrate

Connections and Cables

- Connections
 - Video 15-pin D-Sub / 5 BNC
- Cables D-Sub Video Cable (fixed), Power Cord

Regulatory Approvals

- TCO '99
- MPR-II Low Emission
- FCC-B, UL, CSA, DHHS
- VCC-I, CE, BCIQ, PSB
- Energy Star

Physical Specifications

- UPC Code 190P40 0 37849 92466 2
- Unit Dimension (WxHxD)
 - 17.9" x 18.5" x 17.2" (incl. base)
 - 456 x 469 x 438 mm (incl. base)
 - 17.9" x 16.5" x 17.2" (excl. base)
 - 456 x 419 x 438 mm (excl. base)
- Unit Weight 51.8 lbs/23.5 kg
- Carton Dimension (WxHxD)
 - 21.8" x 24.8" x 23.6"
 - 553.7 x 629.9 x 599.4 mm
- Carton Weight 60.0 lbs/27.2 kg
- Power Supply 90 - 264 VAC, 50/60Hz
- Temperature (operating) 0°C to 35°C/ 32°F to 95°F
- Temperature (storage) -25°C to 65°C/ -13°F to 149°F
- Relative Humidity 5% to 95%
- System MTBF > 75,000 hrs

Other

- USB Hub Option PCUH411

Carton contains: 190P40 Monitor, power cord, and user's manual on CD.

INTERNET ADDRESS: <http://www.philipsusa.com>

TECHNICAL SUPPORT: (877) 835-1838 (USA)
(402) 536-4171 (outside USA)

Specifications subject to change without notice.

Let's make things better.



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