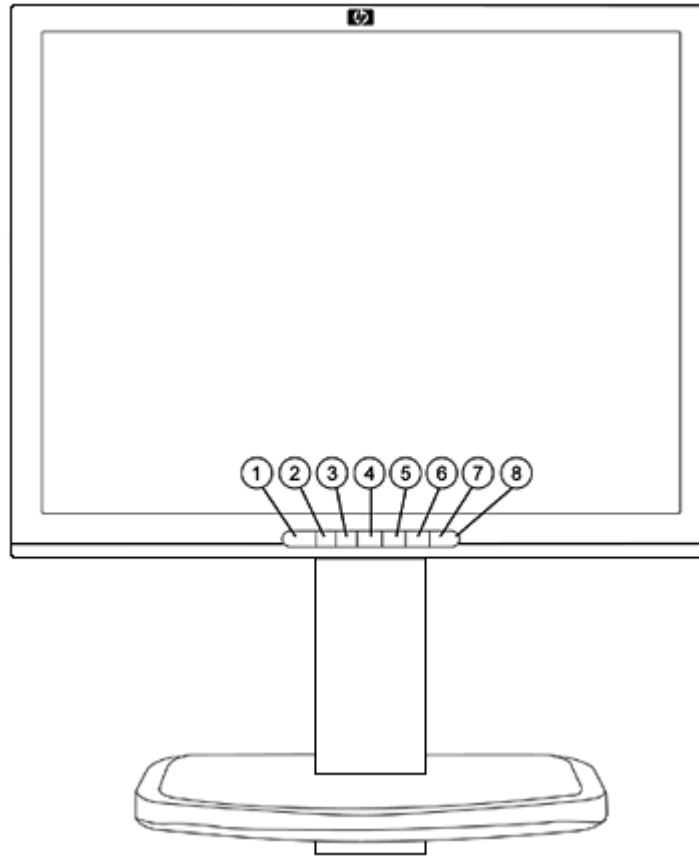


### Overview



1. Activates Picture in Picture (PiP) window
2. Signal input selection
3. Auto adjustment of displayed Image
4. Select/adjust OSD menu settings; selects VGA input when OSD is not active
5. Select/adjust OSD menu settings; selects DVI-I input when OSD is not active
6. Launches OSD menu and selects functions.
7. Full power = green; Sleep = amber
8. Turns the monitor on and off

### Models

Business Desktop Channel  
Workstation Volume Channel  
Workstation Value Channel

P9614A#xxx  
P9614W#xxx  
P9614X#xxx

### Technical Specifications

<b>Panel</b>	<b>Type</b>	20-inch Active Matrix TFT (thin film transistor)	
	<b>Viewable Image Area</b> (diagonal)	20.1 in (51 cm)	
	<b>Screen Opening</b> (W x H)	16.2 x 12.17 in (41.1 x 30.9 cm)	
	<b>Viewing Angle</b> (typical)*	Up to 170° H/170° V (10:1 minimum contrast ratio)	
	<b>Brightness</b> (typical)*	Up to 300 nits (cd/m <sup>2</sup> )	
	<b>Contrast Ratio</b> (typical)*	Up to 700:1	
	<b>Response Rate</b> (typical)*	16 ms (typical, rise + fall)	
	<b>Pixel Pitch</b>	0.255 mm	
	<b>Color Depth Support</b>	16.7 million colors	
	<b>Backlight Lamp Life</b> (to half brightness)	45K hours	
	<b>On Screen Display (OSD) Controls</b>	<b>Buttons or Switches</b>	PIP (Picture in Picture), Input select, auto adjust, OSD up, OSD down, OSD menu select, power
		<b>Languages</b>	English, French, German, Spanish, Italian
		<b>User Controls</b>	Brightness, contrast, positioning, color temperature, individual color control, serial number display, full screen resolutions, clock, clock phase, video picture-in-picture (size and position), input selection (includes separate direct access key for dedicated swap between inputs 1 and 2), factory reset
<b>Signal Interface/ Performance</b>	<b>Horizontal Frequency</b>	30 to 94 kHz (VGA input); 30 to 92 KHz (DVI input) (for modes with pixel clock less than 157 MHz)	
	<b>Vertical Frequency</b>	48 to 85 Hz (VGA input); 30 to 92 KHz (DVI input) (for modes with pixel clock less than 157 MHz)	
	<b>Graphics Controller</b>	Pixelworks PW171	
	<b>Native Resolution</b>	1600 x 1200 @ 60 Hz (recommended)	
	<b>Preset VESA Graphic Modes</b> (non-interlaced)	1600 x 1200 @ 60 Hz, 75 Hz (VGA input)	
		1280 x 1024 @ 60 Hz, 75 Hz, 85 Hz	
		1280 x 960 @ 60 Hz	
		1152 x 900 @ 66 Hz	
		1024 x 768 @ 60 Hz, 75 Hz, 85 Hz	
		800 x 600 @ 60 Hz, 85 Hz	
		640 x 480 @ 60 Hz, 75 Hz, 85 Hz	
		720 x 400 @ 70 Hz	
	<b>Text Mode</b>	720 x 400 @ 70 Hz	
	<b>Mac Mode</b>	1152 x 870 @ 75 Hz and 832 x 624 @ 75 Hz	
	<b>Sun Mode</b>	1152 x 900 @ 66 Hz	
<b>Maximum Pixel Clock Speed</b>	202 MHz (VGA input); 162 MHz (DVI input)		
<b>User Programmable Modes</b>	Yes, 10		
<b>Anti-Glare</b>	Yes		
<b>Anti-Static</b>	Yes		
<b>Default Color Temperature</b>	6500 K		

### Technical Specifications

<b>Video Input</b>	<b>Plug and Play</b>	Yes	
	<b>Input Signal</b>	Four connectors, including one 15-pin mini D-sub VGA, one DVI-I (VGA analog and digital input), one composite video, and one s-video	
	<b>Input Impedance</b>	75 ohms $\pm$ 10%	
	<b>Sync Input</b>	Separate sync (HSYNC/VSYNC); composite sync, Sync on Green	
	<b>Video Cable</b>	VGA to VGA; VGA to DVI-I; DVI-D to DVI-I	
	<b>Video Cable Length</b>	5.9 ft (1.8 m)	
<b>Power</b>	<b>Input Power</b>	Auto-Ranging, 90 to 132 VAC and 195 to 265 VAC; internal power supply, 50 Hz/60 Hz	
	<b>Frequency</b>	47.5 to 63 Hz	
	<b>Typical Power Consumption</b>	50 watts	
	<b>Maximum</b>	< 75 watts	
	<b>Power Saving</b>	< 5 watts	
	<b>Power Cable Length</b>	5.9 ft (1.8 m)	
<b>Mechanical</b>	<b>Dimensions (H x W x D)</b>	<b>Unpacked w/stand</b>	17.36 to 20.9 x 17.8 x 8.27 in (44.1 to 53.1 x 45.2 x 21.0 cm)
		<b>Unpacked w/o stand (head only)</b>	14.29 x 17.8 x 3.19 in (36.3 x 45.2 x 8.1 cm)
		<b>Packaged</b>	11.5 x 21.9 x 23.9 in (29.2 x 55.6 x 60.6 cm)
	<b>Weight</b>	<b>Unpacked</b>	With stand: 20.28 lbs (9.2 kg); Without stand: 12.35 lbs (5.6 kg)
		<b>Packaged</b>	26.9 lb (12.2 kg)
	<b>Tilt Range</b>	-5° to + 25° vertical	
	<b>Swivel Range</b>	-35° to + 35°	
	<b>Height Adjustable</b>	Yes, range 3.54 in (9.0 cm)	
	<b>Pivot Rotation</b>	Yes	
	<b>Base</b>	Detachable, ships attached	
<b>Environmental</b>	<b>Temperature - Operating</b>	46° to 95° F (10° to 35° C)	
	<b>Temperature - Non-operating</b>	6° to 140° F (-10° to 60° C)	
	<b>Humidity - Operating</b>	20% to 80% non-condensing	
	<b>Humidity - Non-operating</b>	5% to 85%	
	<b>Altitude - Operating</b>	+12,000 ft (3657.6 m)	
	<b>Altitude - Non-operating</b>	+40,000 ft (12,192 m)	
<b>Options</b>	<b>HP Desktop Access Center</b>	Sold separately, the HP Desktop Access Center features integrated microphone/headset jacks, dual function headset for phone/PC support, a MultiBay slot for adding an optical drive (sold separately), and four USB ports for easy integration of third-party digital solutions; part number DK985A. For more information, refer to the HP Desktop Access Center QuickSpecs.	

### Technical Specifications

<b>Other</b>	<b>Accessories Included</b>	VGA to VGA cable – connects the graphic card's VGA analog connector to the monitor's input #1 (VGA analog) connector VGA to DVI-I cable – connects the graphic card's VGA connector to the monitor's input #2 (DVI-I analog) connector DVI-D to DVI-I cable – connects the graphic card's DVI-D digital connector to the monitor's input #2 (DVI-I digital) connector
	<b>Software</b>	Pivot Pro software from Portrait Displays, Inc. interacts with your PC's native graphics driver to enable seamless portrait screen redraws with a simple mouse-click or keyboard command. Pivot Pro supports 90-degree portrait and landscape views. Language support is available in English, Japanese, French, German, Spanish, Italian, and Traditional and Simplified Chinese.
	<b>User Guide Languages</b>	English, B. Portuguese, French, LA Spanish, Korean, S. Chinese, T. Chinese, Bahasa, Japanese, Danish, Finnish, German, Norwegian, Spanish, Swedish, Greek, Polish, Russian, Slovenian, Turkish
	<b>Warranty Languages</b>	English, Canadian French, LA Spanish, Brazilian Portuguese, Danish, German, Castilian Spanish, French, Italian, Dutch, Norwegian, Finnish, Swedish, Bahasa Indonesian, Korean, T. Chinese, S. Chinese
	<b>Color</b>	Carbonite/Silver
	<b>VESA External Mounting</b>	Yes (Standard 4 hole pattern, 100 mm)
	<b>Kensington Lock-Ready</b>	Yes
<b>Certification and Compliance</b>		Australian ACA Approval, Canadian Requirements/CSA, CE Marking, China CCIB/CCEE Approval, CISPR Requirements, Eastern European Approvals, Energy Star Compliant, FCC Approval, German Ergonomic (TUV and GS Mark), ISO 9241-3,7,8 VDT Guidelines, ISO 13406-2 Pixel Defect Guidelines, Mexican NOM Approval, MIC Requirements (New Zealand), MPR-II Compliant, Nordic Approvals (Nemko, Fimko, Demko, Semko), PC2001 Compliant, PC99 Certified, S. Korean MIC Approval, Taiwan BSMI Approval, TCO 03 (emissions, ergonomics, environment), TUV-Ergo, UL Listed, VCCI Approvals, Microsoft® Windows® Certification (Microsoft® Windows® 98, Microsoft Windows 2000, and Microsoft Windows XP)
<b>Compatibility</b>		Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.
<b>Service and Warranty</b>		Three years parts, labor, and on-site service. 24-hour, 90-day, toll-free technical support. Replacement options may include second business day on-site service, or next business day direct replacement, at HP's sole discretion. With direct replacement, HP will ship a replacement display product directly to you. Using the prepaid shipping labels provided, return your failed display to HP in the same packaging as the replacement. Certain restrictions and exclusions apply. For details see your product warranty or contact HP Customer Support.

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