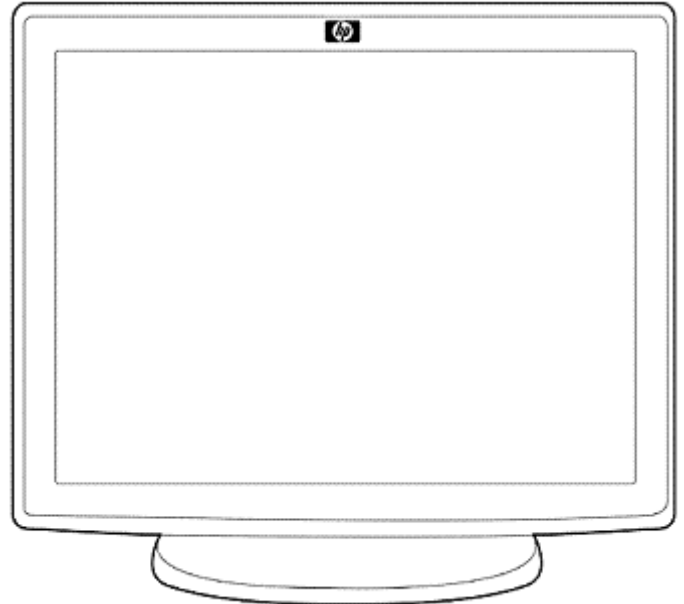
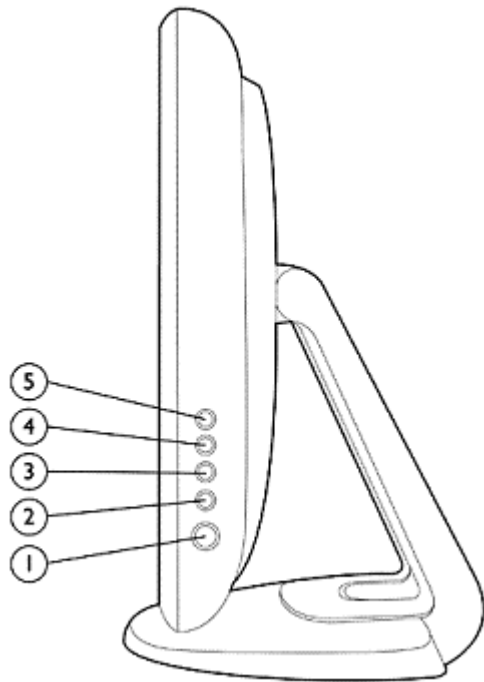


### Overview



1. **Power:** Turns the unit on and off.
2. **Select:** Selects the adjustment items from the on-screen display (OSD) menus.
3. **Arrow down:** Enter brightness adjustment, decrease value of the adjustment item, select item counter-clockwise.
4. **Arrow up:** Enter contrast of the OSD, increase value of the adjustment item, select item.
5. **Menu/Exit:** Display/Exits the OSD menus.

### Models

RB146AA#ABA – Standard Configuration

RB146AT#ABA – Promotional Part Number (SmartBuy)

### Technical Specifications

<b>Panel</b>	<b>Type</b>	15-inch Active Matrix TFT (thin film transistor)
	<b>Viewable Image Area</b> (diagonal)	15 in (38.1 cm)
	<b>Screen Opening</b> (W x H)	12.0 x 9.0 in (30.4 x 22.8 cm)
	<b>Viewing Angle (typical)*</b>	120 degrees horizontal/100 degrees vertical (10:1 minimum contrast ratio)
	<b>Response Rate</b>	17 ms
	<b>Brightness (typical)*</b>	230 nits (cd/m <sup>2</sup> )
	<b>Contrast Ratio (typical)*</b>	400:1
	<b>Pixel Pitch</b>	0.297 mm
	<b>Color Depth Support</b>	16.2 million colors
*NOTE: All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.		
<b>On Screen Display (OSD) Controls</b>	<b>Buttons or Switches</b>	Menu, up, down, select, power
	<b>Languages</b>	English, German, Spanish, Japanese, French
	<b>User Controls</b>	Positioning (vertical and horizontal)
		Color Temperature
		Brightness
		Contrast
		Clock, Clock Phase
	OSD Time-out duration	
	Recall	
<b>Signal Interface/ Performance</b>	<b>Horizontal Frequency</b>	31.5 to 60.2 kHz
	<b>Vertical Frequency</b>	56.3 to 75 Hz
	<b>Graphics Controller</b>	VESA standard timings/formats supported
	<b>Native Resolution</b>	1024 x 768 @ 60 Hz (recommended)
	<b>Maximum Resolution</b> (Digital)	N/A
	<b>Preset VESA Graphic Modes</b> (non-interlaced)	1024 x 768 @ 60 Hz, 65 Hz (Sun), 70 Hz, and 75 Hz
		832 x 624 @ 75 Hz (Mac)
		800 x 600 @ 56 Hz, 60 Hz, 72 Hz, and 75 Hz
		720 x 400 @ 70 Hz
		640 x 480 @ 60 Hz, 66 Hz (Mac) 72 Hz, and 75 Hz
	<b>Maximum Pixel Clock Speed</b>	80 MHz
	<b>User Programmable Modes</b>	Yes, 10
	<b>Anti-Glare</b>	Yes
<b>Anti-Static</b>	Yes	
<b>Default Color Temperature</b>	Custom color (R=G=B=100%)	

### Technical Specifications

Touchscreen Specifications	<b>Positional Accuracy</b>	Standard deviation of error is less than 0.080 in (2.03 mm). Equates to less than $\pm 1\%$ error on most displays.	
	<b>Touchpoint Density</b>	More than 100,000 touchpoints/in <sup>2</sup> (15,500 touchpoints/cm <sup>2</sup> ) for a 15-inch touchscreen. The controller firmware program may reduce resolution to accommodate axis length greater than 465 mm.	
	<b>Touch Activation Force</b>	Typically less than 3 ounces (85 grams)	
	<b>Expected Life Performance</b>	No known wear-out mechanism, as there are no layers, coatings, or moving parts. Technology has been operationally tested to more than 50 million touches in one location without failure, using a stylus similar to a finger.	
	<b>Surface Durability</b>	Surface durability is that of glass, Mohs' hardness rating of 7	
	<b>Optical Light Transmission (per ASTM D1003)</b>	Up to 92%	
	<b>Chemical Resistance</b>	The active area of the touchscreen is resistant to all chemicals that do not affect glass, such as: <ul style="list-style-type: none"> <li>• Acetone</li> <li>• Toluene</li> <li>• Methyl ethyl ketone</li> <li>• Isopropyl alcohol</li> <li>• Methyl alcohol</li> <li>• Ethyl acetate</li> <li>• Ammonia-based glass cleaners</li> <li>• Gasoline</li> <li>• Kerosene</li> <li>• Vinegar</li> </ul>	
		<b>Touch Controller</b>	Dual serial USB controller
		<b>Touch Interface</b>	USB or serial interface (cables included); Cable length: 6 ft (1.8 m)
		<b>Plug and Play</b>	Yes
Video Input	<b>Input Signal</b>	Mini D-Sub 15-Pin VGA type	
	<b>Input Impedance</b>	75 ohms (2 % value change allowed)	
	<b>Sync Input</b>	TTL separate synch	
	<b>Video Cable</b>	Detachable 15-pin D-sub mini connector	
	<b>Video Cable Length</b>	72 in (1.8 m)	
		<b>Input Power</b>	100 to 240 VAC
Power	<b>Nominal Current</b>	0.6 Amperes	
	<b>Frequency</b>	50/60 Hz	
	<b>Typical Power Consumption</b>	22 watts	
	<b>Maximum</b>	30 watts	
	<b>Sleep</b>	<4 watts	
	<b>Off</b>	< 2 watts (This monitor does not have an internal sleep function. It needs the video source in order to go into sleep mode.)	
	<b>Power Cable Length</b>	72 in (1.8 m); detachable	

### Technical Specifications

<b>Mechanical</b>	<b>Dimensions (H x W x D)</b>	<b>Unpacked with stand</b>	12.2 x 13.8 x 6.9 in (31.0 x 35.0 x 17.5 cm)	
		<b>Display Head only</b>	11.0 x 13.8 x 2.2 in (28.0 x 35.0 x 5.5 cm)	
		<b>Packaged</b>	10.2 x 16.5 x 15.0 in (26.0 x 42.0 x 38.0 cm)	
	<b>Weight</b>	<b>Unpacked</b>	10.6 lb (4.8 kg)	
		<b>Packaged</b>	15.4 lb (7.0 kg)	
	<b>Tilt Range</b>	-5 to +90 degrees		
	<b>Swivel Range</b>	N/A		
	<b>Height Adjustable</b>	No		
	<b>Pivot Rotation</b>	No		
	<b>Base and Stand</b>	Detachable		
<b>Environmental</b>	<b>Temperature – Operating</b>	32° to 104° F (0° to 40° C) non-condensing		
	<b>Temperature – Non-operating</b>	4° to 140° F (-20° to 60° C) non-condensing		
	<b>Humidity – Operating</b>	20% to 80% non-condensing		
	<b>Humidity – Non-operating</b>	10 % to 90 % non-condensing		
	<b>Altitude – Operating</b>	0 to 12,000 ft (0 to 3,658 m)		
	<b>Altitude – Non-operating</b>	0 to 40,000 ft (0 to 12,192 m)		
	<b>Environmental Data</b>	<b>Eco-Label Certifications and Declarations</b>	This product is in compliance with the Restrictions of Hazardous Substances (RoHS) Directive, 2002/95/EC.	
		This product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive, 2002/96/EC.		
<b>Other</b>	<b>Accessories Included</b>	Detachable VGA cable, detachable AC power cord, documentation kit, and user CD		
	<b>User Guide Languages</b>	English		
	<b>Warranty Languages</b>	<b>Americas</b>	English, French, LA Spanish	
	<b>Color</b>	Carbonite only		
	<b>VESA External Mounting</b>	Yes (Standard 4 hole pattern, 75 mm)		
	<b>Kensington Lock-ready</b>	Yes		
<b>Certification and Compliance</b>	UL listed, CSA, FCC approval, MPR-II, and NOM			
<b>Compatibility</b>	Compatible with platforms using the VESA standard video modes.			
<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.			

### *Technical Specifications*

© 2006 Hewlett-Packard Development Company, L.P.

Microsoft and Windows are trademarks or registered trademarks of Microsoft Corporation in the U.S. and other countries.

HP shall not be liable for technical or editorial errors or omissions contained herein. The information is provided as is without warranty of any kind and is subject to change without notice. The warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.