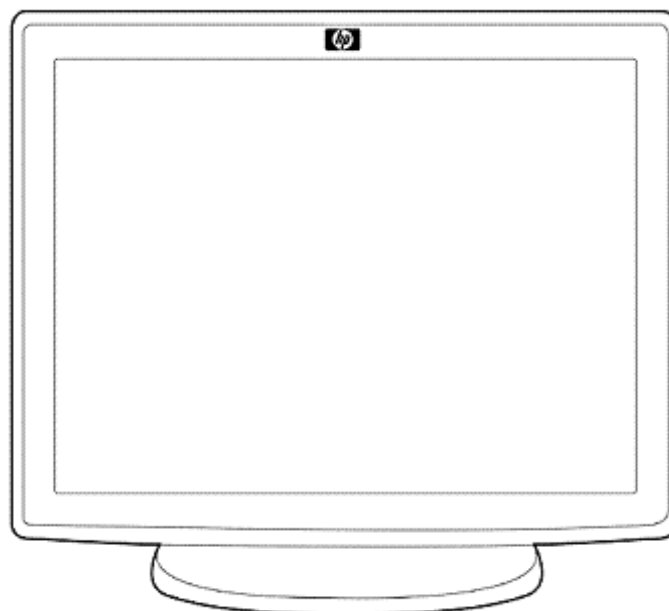
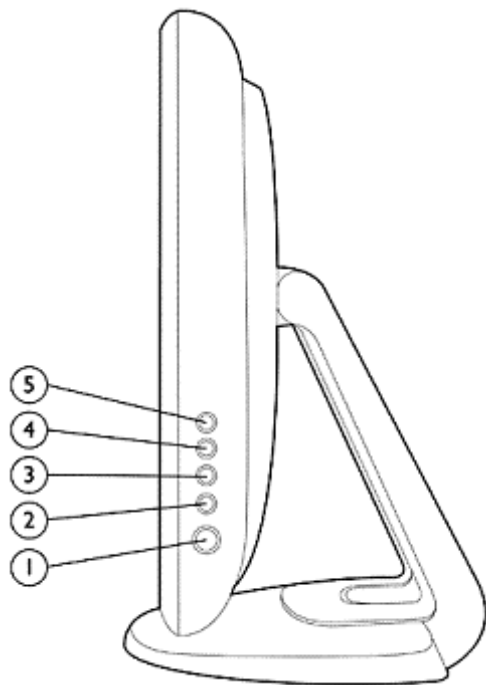


### Overview



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

Panel	Type	15-inch Active Matrix TFT (thin film transistor)	
	Viewable Image Area (diagonal)	15 in (38.1 cm)	
	Screen Opening (W x H)	12.0 x 9.0 in (30.4 x 22.8 cm)	
	Viewing Angle (typical)*	120 degrees horizontal/100 degrees vertical (10:1 minimum contrast ratio)	
	Response Rate	17 ms	
	Brightness (typical)*	230 nits (cd/m <sup>2</sup> )	
	Contrast Ratio (typical)*	400:1	
	Pixel Pitch	0.297 mm	
<i>* All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.</i>			
On Screen Display (OSD) Controls	Buttons or Switches	Menu, up, down, select, power	
	Languages	English, German, Spanish, Japanese, French	
	User Controls	Positioning (vertical and horizontal) Color Temperature Brightness Contrast Clock, Clock Phase OSD Time-out duration Recall	
	Signal Interface/ Performance	Horizontal Frequency	31.5 to 60.2 kHz
	Vertical Frequency	56.3 to 75 Hz	
	Graphics Controller	VESA standard timings/formats supported	
	Native Resolution	1024 x 768 @ 60 Hz (recommended)	
Maximum Resolution (Digital)	N/A		
Preset VESA Graphic Modes (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		
Maximum Pixel Clock Speed	80 MHz		
User Programmable Modes	Yes, 10		
Anti-Glare	Yes		
Anti-Static	No		
Default Color Temperature	Customcolor(R=G=B=100%)		
Touchscreen Specifications	Positional Accuracy	Standard deviation of error is less than 0.080 in (2.03 mm). Equates to less than ±1% error on most displays.	

### Technical Specifications

	<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>	
Video Input	<b>Plug and Play</b>	Yes	
	<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)	
Power	<b>Input Power</b>	100 to 240 VAC	
	<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	
Mechanical	<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)

### Technical Specifications

	<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, NOM, ISE for Cambodia, PSB for Singapore, BSMI for Taiwan MIC for Korea, CCC for China , C-Tick for Australia, S-Mark for Argentina
<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.  * HP Care Pack Services extend service contracts beyond the standard warranties. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at <a href="http://www.hp.com/go/lookuptool">www.hp.com/go/lookuptool</a> . Additional HP Care Pack Services information by product is available at <a href="http://www.hp.com/hps/carepack">www.hp.com/hps/carepack</a> .

### *Technical Specifications*

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