

### Overview

### HP VH22 21.5-inch Monitor



- 1. Menu:** Opens, selects or exits the OSD menu.
- 2. Minus "-":** If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels.
- 3. Plus "+"/Input:** Select input source. If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels.
- 4. OK/Auto:** If the OSD menu is on, press to select the highlighted menu item. If the OSD menu is inactive, press to activate the auto adjustment feature to optimize the screen image.
- 5. Power:** Turns the monitor on or off.
- 6. Power LED:** fully powered = green; sleep mode = amber; sleep timer mode = flashing amber.



(Multi-monitor support depends on your PC capability.)

Use two HP VH22 21.5-inch monitors with an HP Adjustable Dual Display Stand (AW664AA) for a small footprint, high productivity work solution.

### *Overview*

Monitors, stands, keyboard, mouse and notebook are sold separately.)

### Overview

#### Part numbers

V9E67AA, V9E67A6 – Americas  
X0N05AA – EMEA

#### Introduction

Invest wisely, boost productivity, and work comfortably with the business-class HP VH22 21.5-inch Display, which has Full HD resolution, four-way adjustable comfort, and connectivity for your legacy and current technology.

#### Key Benefits

- Breeze through your day and achieve optimal productivity when you set the height, tilt, swivel, and pivot for the way you work best.
- View your everyday content on the 21.5-inch diagonal panel with sharp 1920 x 1080 FHD resolution.<sup>1</sup>
- Get legacy and current compatibility with VGA, DVI, and DisplayPort connections.
- Attach your HP Desktop Mini, HP Chromebox or select HP Thin Client directly behind the display<sup>2</sup> for an integrated, affordable workspace that's perfect for small spaces. Or, use the integrated VESA mount to place the display on a wall or stand.<sup>3</sup>
- Reduce power consumption and help lower your costs with an energy-smart, EPEAT<sup>®</sup> Gold registered<sup>4</sup> design.
- Design the screen for how you work with HP Display Assistant software, which enables screen partitioning and helps deter theft by deactivating a monitor that's disconnected without approval.
- Create a complete solution with HP accessories<sup>5</sup> designed and tested to work with your display.
- Customize your display's position with adjustable tilt settings and wide 178-degree viewing angles.
- Rest assured that your IT investment is supported by an HP standard one - year (EMEA Region) or four-year (Americas Region) limited warranty (varies by region). To extend your protection, select optional HP Care Packs.<sup>6</sup>

1. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
2. Sold separately. See product QuickSpecs for exact compatibility. HP Quick Release required and sold separately. Mounting hardware sold separately.
3. Mounting hardware sold separately.
4. EPEAT<sup>®</sup> registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status in your country.
5. Each sold separately.
6. Sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit [www.hp.com/go/cpc](http://www.hp.com/go/cpc). HP Services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

### Technical Specifications

#### Technical Specifications

|                                      |                                                                                                                                                                    |                                                                                                                                                                                                 |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Panel</b>                         | <b>Type</b>                                                                                                                                                        | TN with LED backlight                                                                                                                                                                           |
|                                      | <b>Viewable Image Area</b>                                                                                                                                         | <b>55 cm</b> (21.5 in) widescreen; diagonally measured                                                                                                                                          |
|                                      | <b>Active Area</b><br>(W x H)                                                                                                                                      | <b>47,66 x 26,81 cm</b> (18.76 x 10.55 in)                                                                                                                                                      |
|                                      | <b>Aspect Ratio</b>                                                                                                                                                | 16:9                                                                                                                                                                                            |
|                                      | <b>Viewing Angle</b> (typical)                                                                                                                                     | Up to 170° horizontal/160° vertical (10:1 minimum contrast ratio)                                                                                                                               |
|                                      | <b>Brightness</b> (typical)*                                                                                                                                       | 250 cd/m <sup>2</sup>                                                                                                                                                                           |
|                                      | <b>Contrast Ratio</b> (typical)*                                                                                                                                   | 1000:1                                                                                                                                                                                          |
|                                      | <b>Dynamic Contrast Ratio</b><br>(typical)*                                                                                                                        | 5,000,000:1                                                                                                                                                                                     |
|                                      | <b>Response Rate</b> (typical)*                                                                                                                                    | 5 ms (on/off)                                                                                                                                                                                   |
|                                      | <b>Pixel Pitch</b>                                                                                                                                                 | 0.248 mm                                                                                                                                                                                        |
|                                      | <b>Pixels Per Inch</b>                                                                                                                                             | 102 PPI                                                                                                                                                                                         |
|                                      | <b>Hardness Rating</b>                                                                                                                                             | 3H                                                                                                                                                                                              |
|                                      | <b>Backlight Lamp Life</b> *<br>(to half brightness)                                                                                                               | 30K hours minimum                                                                                                                                                                               |
|                                      | <b>Color Gamut</b> *                                                                                                                                               | 72% (typical)                                                                                                                                                                                   |
|                                      | <b>Color Support</b> **                                                                                                                                            | Can display up to 16.7 million colors                                                                                                                                                           |
|                                      | *All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. |                                                                                                                                                                                                 |
|                                      | ** With the use of FRC technology.                                                                                                                                 |                                                                                                                                                                                                 |
| <b>On Screen Display (OSD)</b>       | <b>Buttons or Switches</b>                                                                                                                                         | Menu, Minus ("-"), Plus ("+")/Input Control, OK/Auto, Power                                                                                                                                     |
|                                      | <b>Languages</b>                                                                                                                                                   | 10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)                                                                                      |
|                                      | <b>User Controls</b>                                                                                                                                               | Brightness, Contrast, Color Control, Input Control, Image Control, Power control, Menu Control, Management, Language, Information                                                               |
| <b>Signal Interface/ Performance</b> | <b>Horizontal Frequency</b>                                                                                                                                        | 24 to 80 kHz                                                                                                                                                                                    |
|                                      | <b>Vertical Frequency</b>                                                                                                                                          | 50 to 76 Hz                                                                                                                                                                                     |
|                                      | <b>Native Resolution</b>                                                                                                                                           | 1920 x 1080 @ 60Hz                                                                                                                                                                              |
|                                      | <b>Preset VESA Graphic Modes</b><br>(non-interlaced)                                                                                                               | 640 x 480 @ 60Hz<br>720 x 400 @ 70 Hz<br>800 x 600 @ 60 Hz<br>1024 x 768 @ 60 Hz<br>1280 x 720 @ 60 Hz<br>1280 x 800 @ 60 Hz<br>1280 x 1024 @ 60 Hz<br>1440 x 900 @ 60 Hz<br>1600 x 900 @ 60 Hz |

### Technical Specifications

|                           |                                    |                                                               |                                                              |
|---------------------------|------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|
|                           |                                    | 1680 x 1050 @ 60Hz                                            |                                                              |
|                           |                                    | 1920 x 1080 @ 60Hz                                            |                                                              |
|                           | <b>Maximum Pixel Clock Speed</b>   | 170 MHz                                                       |                                                              |
|                           | <b>User Programmable Modes</b>     | Yes, 11                                                       |                                                              |
|                           | <b>Anti-Glare</b>                  | Yes                                                           |                                                              |
|                           | <b>Default Color Temperature</b>   | 6500 K                                                        |                                                              |
| <b>Video/Other Inputs</b> | <b>Plug and Play</b>               | Yes                                                           |                                                              |
|                           | <b>Input Signal</b>                | VGA, DVI-D, DisplayPort (HDCP support on DVI and DisplayPort) |                                                              |
|                           | <b>Video Cables</b>                | VGA, DVI                                                      |                                                              |
|                           | <b>Video Cable Lengths</b>         | <b>1,8 m</b> (5.9 ft)                                         |                                                              |
| <b>Power</b>              | <b>Power Supply</b>                | Internal                                                      |                                                              |
|                           | <b>Input Power</b>                 | 100 - 240 VAC (50/60 Hz)                                      |                                                              |
|                           | <b>Typical Power Consumption</b>   | 22.5 W                                                        |                                                              |
|                           | <b>Maximum</b>                     | 28.5 W                                                        |                                                              |
|                           | <b>Power Saving</b>                | 0.5 W                                                         |                                                              |
|                           | <b>Power Cable Length</b>          | <b>1,9 m</b> (6.2 ft)                                         |                                                              |
| <b>Mechanical</b>         | <b>Dimensions (W x D x H)</b>      | <b>Unpacked w/stand</b>                                       | <b>50,76 x 19,29 x 44,64 cm</b><br>(20.00 x 7.59 x 17.58 in) |
|                           |                                    | <b>Unpacked w/o stand (head only)</b>                         | <b>50,76 x 4,82 x 44,64 cm</b><br>(20.00 x 1.90 x 17.68 in)  |
|                           |                                    | <b>Packaged</b>                                               | <b>58,9 x 18,7 x 4,2 cm</b><br>(23.19 x 7.36 x 1.65 in)      |
|                           | <b>Weight</b>                      | <b>Head Only</b>                                              | <b>2,8 kg</b> (6.16 lb)                                      |
|                           |                                    | <b>Unpacked</b>                                               | <b>4,5 kg</b> (9.92 lb)                                      |
|                           |                                    | <b>Packaged</b>                                               | <b>6,23 kg</b> (13.73 lb)                                    |
|                           | <b>Tilt Range</b>                  | -5° to + 25° vertical                                         |                                                              |
|                           | <b>Swivel Range</b>                | Yes, 360°                                                     |                                                              |
|                           | <b>Height Adjustable</b>           | Yes, 100 mm                                                   |                                                              |
|                           | <b>Pivot Rotation</b>              | Yes, 90 degree clockwise                                      |                                                              |
| <b>Base</b>               | Detachable, ships detached         |                                                               |                                                              |
| <b>Environmental</b>      | <b>Temperature – Operating</b>     | <b>5° to 35° C</b> (41° to 95° F)                             |                                                              |
|                           | <b>Temperature – Non-operating</b> | <b>-20° to 60° C</b> (-4° to 140° F)                          |                                                              |
|                           | <b>Humidity – Operating</b>        | 20% to 80% non-condensing                                     |                                                              |
|                           | <b>Humidity – Non-operating</b>    | 5% to 95%, 38.7° C max wet-bulb                               |                                                              |
|                           | <b>Altitude – Operating</b>        | <b>0 to 5,000 m</b> (0 to 16, 404 ft)                         |                                                              |
|                           | <b>Altitude – Non-operating</b>    | <b>0 to 12,192 m</b> (0 to 40,000 ft)                         |                                                              |
|                           | <b>White LED Backlights</b>        | Yes                                                           |                                                              |
|                           | <b>CCFL Panel</b>                  | No                                                            |                                                              |

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|                                     |                                                                       |                                                                                                                                                                                                                                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | <b>Arsenic-Free Display Glass</b>                                     | Yes                                                                                                                                                                                                                                                                                               |
|                                     | <b>Low Halogen<sup>4</sup></b>                                        | Yes                                                                                                                                                                                                                                                                                               |
|                                     | <b>Mercury-Free Display Backlighting</b>                              | Yes                                                                                                                                                                                                                                                                                               |
| <b>Options</b><br>(sold separately) | <b>HP LCD Monitor Quick Release – Part number EM870AA<sup>1</sup></b> | An easy-to-use, VESA-compliant, LCD monitor mounting solution that allows you to quickly and securely attach an LCD monitor to a variety of stands, brackets, arms or wall mounts. For more information, refer to this product's QuickSpecs document.                                             |
|                                     | <b>HP Business PC Security Lock Kit – Part number PV606AA</b>         | Attaches to the rear of the PC with a six-foot steel cable that can be used to secure a PC or peripherals such as mice, keyboards, monitors or USB security devices to protect them against unauthorized removal by physically connecting the system to an anchor point.                          |
|                                     | <b>HP Single Monitor Arm – Part number BT861AA</b>                    | The flexible design of the HP Single Monitor Arm provides a seemingly endless range of display adjustments with an amazing 13 inches of lift, 50 degrees of tilt, and 360 degrees of pan and rotation – all at your fingertips -- helping you stay comfortable and productive throughout the day. |
|                                     | <b>HP Adjustable Dual Display Stand – Part Number AW664AA</b>         | Premium space-saving dual screen solution provides access to more monitor real estate and makes it possible to manage multiple applications simultaneously. Weight adjustable for dual monitors from 17-24". Rotate displays into portrait/landscape positions.                                   |
|                                     | <b>HP PC Mounting Bracket for Monitors – Part Number N6N00AA</b>      | Customize an altogether better solution with the HP PC Mounting Bracket for Monitors, which lets you attach your HP Desktop Mini, HP Chromebox, or select HP Thin Client directly behind your VH22 display.                                                                                       |
| <b>What's in the box?</b>           | <b>Monitor and accessories</b>                                        | HP VH22 21.5-inch Monitor<br>AC power cord <b>1,9 m</b> (6.2 ft)<br>VGA cable <b>1,8 m</b> (5.9 ft)<br>DVI cable <b>1,8 m</b> (5.9 ft)                                                                                                                                                            |
|                                     | <b>Documentation</b>                                                  | CD and printed documentation                                                                                                                                                                                                                                                                      |
|                                     | <b>Software</b>                                                       | HP Display Assistant is a software utility that allows you to quickly and accurately adjust the display settings and save the configurations that are best suited for you and your environment.                                                                                                   |
| <b>Other</b>                        | <b>User Guide Languages</b>                                           | English, Arabic, B. Portuguese, Czech, Danish, French Canadian, Finnish, French, Greek, German, Hungarian, Hebrew, Italian, Kazakh, Spanish, Dutch Norwegian, Polish, Portuguese, Russian, Swedish, Slovak, Slovenian, Turkish                                                                    |
|                                     | <b>Warranty Languages</b>                                             | English, Arabic, B. Portuguese, Czech, Danish, French Canadian, Finnish, French, Greek, German, Hungarian, Hebrew, Italian, Kazakh, Spanish, Dutch Norwegian, Polish, Portuguese, Russian, Swedish, Slovak, Slovenian, Turkish                                                                    |
|                                     | <b>Bezel Color</b>                                                    | Black                                                                                                                                                                                                                                                                                             |
|                                     | <b>VESA External Mounting</b>                                         | Yes, one set of standard 4-hole pattern, 100 mm.                                                                                                                                                                                                                                                  |

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|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
|                                      | <b>Security Lock-Ready</b>                                                                                                                                                                                                                                                                                                  | Yes, one security lock slot available |
|                                      | <b>Country of Origin</b>                                                                                                                                                                                                                                                                                                    | Mexico and China                      |
| <b>Certifications and Compliance</b> | EPEAT® Gold (select regions) <sup>3</sup> , ENERGY STAR® qualified, CE, CB, TUV-S, ISO 9241-307, TUV Bauart, cTUVus, Mexico CoC, CCC, TCO, China Energy Label (CEL) Grade 1, SmartWay - NA only, Microsoft WHQL Certification (Windows 10)                                                                                  |                                       |
| <b>Compatibility</b>                 | Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.                                                                                                                                                                                                                        |                                       |
| <b>Service and Warranty</b>          | Protected by an HP standard one - year (EMEA Region) or four-year (Americas Region) limited warranty (varies by region). Certain restrictions and exclusions apply.*Optional Care Pack Services are extended service contracts which go beyond your standard warranties. <sup>2</sup><br>*Warranty term may vary by region. |                                       |

1. The HP Quick Release has been designed to support a maximum of up to 24 lbs (10.9 kg) for all devices mounted. Because mounting surfaces vary widely and the final mounting method and configuration may vary, mounting fasteners are not supplied (other than the VESA-compliant screws). HP recommends that you consult with a qualified engineering, architectural or construction professional to determine the appropriate type and quantity of mounting fasteners required for your application and to ensure that your mounting solution is properly installed to support applied loads.
2. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. See [www.hp.com/go/cpc](http://www.hp.com/go/cpc) for details..
3. EPEAT® Gold where HP registers commercial display products. See [www.epeat.net](http://www.epeat.net) for registration status in your country.
4. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

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### Change Log

#### Summary of Changes

| <b>Date of change:</b> | <b>Version History:</b> | <b>Status</b> | <b>Description of change:</b> |
|------------------------|-------------------------|---------------|-------------------------------|
| May 3, 2016            | From v1 to v2           | Update        | Launch                        |
|                        |                         |               |                               |
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