QuickSpecs

HP HC270 Healthcare Edition Display

Overview

HP HC270 Healthcare Edition Display

1. Menu button
2. Luminance
3. Color control
4. Input control
5. Information
6. Power button/LED

1. Master power switch
2. Power connector
3. Security lock slot
4. Audio output 3.5 mm
5. DVI-D
6. HDMI v 1.4 input (MHL 2.0)
7. Mini-DisplayPort
8. DisplayPort v 1.2 in
9. DisplayPort v 1.2 out
10. (4) USB 3.0 downstream ports (one fast charging)
11. (1) USB 3.0 upstream port
Overview

Work efficiently and accurately with the HP HC270 Healthcare Edition Display, a DICOM Part 14-calibrated QHD display that delivers consistent views of clinical data and non-diagnostic images\(^1\).

Key features:

- Be assured that grayscale and color medical images and patient information are consistent and accurate on every display, plus the HP Pixel Policy\(^2\) guarantees zero bright dots.
- View up to 60% more\(^3\) of your images and records onscreen with a 2560 x 1440, 27” diagonal display\(^4\); work across multiple displays\(^5\) with micro-edge bezels and DisplayPort™ multi-stream support.
- Attach your HP Desktop Mini or select HP Thin Client behind the display\(^6\) for an integrated, small footprint solution that’s perfect for busy and shared spaces like nurse’s or charting stations.
- Connect to multiple display and devices with a range of integrated ports right at the display.
- Use Picture-in-Picture or Picture-by-Picture to boost your multi-tasking productivity with simultaneous views from two connected devices.
- Work comfortably with customizable tilt, height adjustment, swivel, and pivot settings.
- Design the screen for how you work with HP Display Assistant software, which enables screen partitioning and helps deter theft by deactivating a display that’s disconnected without approval.
- Reduce power consumption and help lower your costs with an energy-efficient design.
- Rest assured that your IT investment is supported by a three-year standard limited warranty, and optional HP Care service.\(^7\)

\(^1\) The display is not intended for primary image interpretation or diagnostic use.


\(^3\) Compared to a WUXGA display.

\(^4\) All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

\(^5\) Each sold separately.

\(^6\) Sold separately. HP PC Mounting Bracket for Monitors required and sold separately; see Bracket QuickSpecs for exact compatibility.

\(^7\) HP Care Packs are 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.
### Model: Z0A73A4

<table>
<thead>
<tr>
<th><strong>Panel</strong></th>
<th><strong>Type</strong></th>
<th>27-inch IPS w/LED backlight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Viewable Image Area (diagonal)</strong></td>
<td><strong>68.47 cm</strong></td>
<td>(27-inch) widescreen; diagonally measured</td>
</tr>
<tr>
<td><strong>Panel Active Area (W x H)</strong></td>
<td><strong>59.67 x 33.56 cm</strong></td>
<td>(23.49 × 13.21 in)</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>2560 x 1440 @ 60 Hz (QHD)</td>
<td></td>
</tr>
<tr>
<td><strong>Aspect Ratio</strong></td>
<td>16:9</td>
<td></td>
</tr>
<tr>
<td><strong>Viewing Angle</strong></td>
<td>Up to 178° horizontal/178° vertical typical</td>
<td></td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>350 cd/m²</td>
<td></td>
</tr>
<tr>
<td><strong>Contrast Ratio (Typical)</strong></td>
<td>1000:1 Static; 5,000,000:1 Dynamic (DCR)</td>
<td></td>
</tr>
<tr>
<td><strong>Response Times</strong>*</td>
<td>14 ms typical (G-to-G)</td>
<td></td>
</tr>
<tr>
<td><strong>Pixel Pitch</strong></td>
<td>0.2331 mm</td>
<td></td>
</tr>
<tr>
<td><strong>Pixels Per Inch (PPI)</strong></td>
<td>108.8 DPI</td>
<td></td>
</tr>
<tr>
<td><strong>Backlight Lamp Life (to half brightness)</strong></td>
<td>30,000 hours minimum</td>
<td></td>
</tr>
<tr>
<td><strong>Color Gamut</strong></td>
<td>Up to 16.7 million colors with the use of FRC technology</td>
<td></td>
</tr>
<tr>
<td><strong>Color Gamut (Typical)</strong></td>
<td>99% sRGB</td>
<td></td>
</tr>
<tr>
<td><strong>Default Color Setting</strong></td>
<td>DICOM</td>
<td></td>
</tr>
</tbody>
</table>

* Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

### User Controls

| **Buttons or Switches** | Menu, Information, Input Control, Color Control, Luminance |
| **User Programmable Modes** | 20 |
| **Languages** | 10 (German, S-Chinese, T-Chinese, Japanese, English, Spanish, French, Italian, Netherlands and Portuguese) |
| **On Screen Display (OSD) User Controls** | Luminance, Color Control, Input Control, Image Control, PIP Control, Power Control, OSD Control, Management, Language, Information |
| **Audio Controls** | N/A |

### Signal Interface/Performance

| **Horizontal Frequency** | 30 - 90 kHz (DVI, DP, HDMI); 27 - 75 (MHL) |
| **Vertical Frequency** | 50 - 60 Hz (DVI, DP, HDMI); 24 - 60 (MHL) |
| **Native Resolution** | 2560 x 1440 @60Hz |
| **Preset Graphic Modes** | 640 x 480 @ 60Hz, 720 x 400 @ 70 Hz, 800 x 600 @ 60 Hz, 1024 x 768 @ 60 Hz, 1280 x 720 @ 60 Hz, 1280 x 800 @ 60 Hz, 1280 x 1024 @ 60 Hz, 1366 x 768 @60Hz |
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- 1440 x 900 @ 60 Hz
- 1600 x 900 @ 60 Hz
- 1600 x 1200 @ 60 Hz
- 1680 x 1050 @ 60 Hz
- 1920 x 1080 @ 60 Hz
- 1920 x 1200 @ 60 Hz
- 2560 x 1440 @ 60 Hz

Maximum Pixel Clock Speed
- 250 MHz (DVI, DP, HDMI); 150 MHz (MHL)

Anti-Glare
- Yes

Plug and Play
- Yes

Input/Output Connectors
- (1) DVI-D Dual Link
- (1) MHL 2.0 / HDMI 1.4
- (1) DisplayPort 1.2, (1) Mini-DisplayPort, (1) DisplayPort 1.2 out
- HDCP support on all inputs

USB
- 4 USB 3.0 [4 downstream (one fast charging), 1 upstream]

Video Cables Included
- (1) DisplayPort 1,8 m (5.9 ft)
- (1) HDMI 1,8 m (5.9 ft)
- (1) USB 3.0 1,8 m (5.9 ft)

Audio
- (1) Audio output 3.5mm

Multimedia
- Speakers
  - N/A

Power
- Power Supply
  - Internal

Input Power
- 100 - 240 VAC 50/60 Hz

Maximum Power
- 85 W

Typical Power
- 50 W

Sleep Power
- 0.5 W (standby)

Power Cable Length
- 1,8 m (5.9 ft)

Mechanical
- Dimensions
  - (W × D × H)
  - Unpacked w/stand: 61,43 x 21,82 x 53,37 cm
    - 24.2 x 8.6 x 21 in (max height)
  - Unpacked w/o stand
    - 61,43 x 21,82 x 40,37 cm
      - 24.2 x 8.6 x 15.9 in (min height)
  - Packaged: 73,1 x 28,5 x 47,9 cm
    - 28.8 x 11.2 x 18.9 in

Weight
  - Head Only: 5,1 kg (11.16 lb)
  - Unpacked: 7,7 kg (16.9 lb)
  - Packaged: 10 kg (22.1 lb)

Ergonomic Features
- Detachable Stand
  - Yes, ships detached

Height Adjustment
- Yes, 130 +/- 3 mm

Tilt Range
- -2° to + 20° vertical

Swivel
- Yes, 45° +/- 2° (Clockwise/Counterclockwise)
# QuickSpecs

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### Change Log

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Quick Release³</th>
<th>HP QR2 quick release included</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pivot</td>
<td>Yes, 90°</td>
<td></td>
</tr>
<tr>
<td>Temperature - Operating</td>
<td>5° to 35° C (41° to 95° F)</td>
<td></td>
</tr>
<tr>
<td>Temperature - Non-operating</td>
<td>~20° to 60° C (-4° to 140° F)</td>
<td></td>
</tr>
<tr>
<td>Humidity - Operating</td>
<td>20% to 80% non-condensing</td>
<td></td>
</tr>
<tr>
<td>Humidity - Non-operating</td>
<td>5% to 95%, 38.7° C max wet-bulb</td>
<td></td>
</tr>
<tr>
<td>Altitude - Operating</td>
<td>0 to 5,000 m (0 to 16,404 ft)</td>
<td></td>
</tr>
<tr>
<td>Altitude – Non-operating</td>
<td>0 to 12,192 m (0 to 40,000 ft)</td>
<td></td>
</tr>
<tr>
<td>White LED Backlights</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>CCFL Panel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Arsenic-Free Display Glass</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Low Halogen²</td>
<td>Yes (except cables)</td>
<td></td>
</tr>
<tr>
<td>Mercury-Free Display Backlighting</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

### Options

- **HP LCD Speaker Bar**—Part number NQ576AA  
  Powered directly by the connected PC, the Speaker Bar seamlessly attaches to the monitor’s lower bezel to bring full audio support to select HP flat panel monitors. Features include dual speakers with full sound range and dual external headphone jacks. Sold separately. For more information, refer to the product’s QuickSpecs.

- **HP PC Mounting Bracket for Monitors**—Part number N6N00AA  
  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 the monitor.

- **HP Single Monitor Arm**—Part number BT861AA  
  The flexible design of the HP Single Monitor Arm provides a seemingly endless range of display adjustments with an amazing 13 inches of lift, 75 degrees of tilt, and 360 degrees of pan and rotation—all at your fingertips—helping you stay comfortable and productive throughout the day.

- **HP DisplayPort Cable Kit**—Part number VN567AA  
  Connects a DisplayPort connector on an HP Business Desktop computer to a DisplayPort connector on a monitor.

- **HP Quick Release Bracket**—Part number EM870AA⁵  
  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.

- **HP Business PC Security Lock Kit**—Part number PV606AA  
  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.

### What’s in the box?

- **Monitor and Accessories**  
  HP HC270 Healthcare Edition Display, AC power cord 1.83 m (6 ft), DisplayPort cable 1.8 m (5.9 ft), HDMI cable 1.8 m (5.9 ft), USB 3.0 cable 1.8 m (5.9 ft)
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<table>
<thead>
<tr>
<th>Documentation</th>
<th>CD (includes user guide, warranty, drivers)</th>
</tr>
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<tbody>
<tr>
<td>Software</td>
<td>HP Display Assistant</td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>User Guide Languages</td>
<td>English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.</td>
</tr>
<tr>
<td>Warranty Languages</td>
<td>English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>VESA Mounting</td>
<td>100 mm VESA mount</td>
</tr>
<tr>
<td>Security Lock-Ready</td>
<td>Yes</td>
</tr>
<tr>
<td>Country of Origin</td>
<td>China</td>
</tr>
<tr>
<td>Compatibility</td>
<td>Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.</td>
</tr>
<tr>
<td>Service and Warranty</td>
<td>Protected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are extended service contracts that extend your protection beyond the standard warranties.</td>
</tr>
</tbody>
</table>

1. MHL 2.0 port will charge a MHL compatible smart phone and tablet battery. Requires the smart phone or tablet to be enabled for MHL or have an HDMI dongle to connect to the monitor. See your mobile device specifications.
2. Power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
4. 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 for details.
5. 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.

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### Change Log

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Version 1 to 2</td>
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