Contents

Cover 1
Contents 2
Summary Of Change 4
17 Inch - 20 Inch 5
ThinkVision E1922s 5
ThinkVision E1922s Platform Specifications 36
ThinkVision E2054 6
ThinkVision E2054 Platform Specifications 38
ThinkVision LT1913p Square 7
ThinkVision LT1913p Square Platform Specifications 39
ThinkVision T1714 8
ThinkVision T1714 Platform Specifications 40
ThinkVision T1714p 9
ThinkVision T1714p Platform Specifications 41
ThinkVision T2054p 10
ThinkVision T2054p Platform Specifications 42
21 Inch - 24 Inch 11
ThinkVision E21 11
ThinkVision E21 Platform Specifications 43
ThinkVision E24 12
ThinkVision E24 Platform Specifications 44
ThinkVision P24h 13
ThinkVision P24h Platform Specifications 45
ThinkVision P24q 14
ThinkVision P24q Platform Specifications 46
ThinkVision T2224d 15
ThinkVision T2224d Platform Specifications 47
ThinkVision T2254p 16
ThinkVision T2254p Platform Specifications 48
ThinkVision T22i 17
ThinkVision T22i Platform Specifications 49
ThinkVision T22v 18
ThinkVision T22v Platform Specifications 50
ThinkVision T2324d 19
ThinkVision T2324d Platform Specifications 51
ThinkVision T23d 20
ThinkVision T23d Platform Specifications 52
ThinkVision T23i 21
ThinkVision T23i Platform Specifications 53
ThinkVision T2454p 22
ThinkVision T2454p Platform Specifications 54
ThinkVision T24d 23
ThinkVision T24d Platform Specifications 55
ThinkVision T24i-10 24
ThinkVision T24i-10 Platform Specifications 56
ThinkVision T24i-19 25
ThinkVision T24i-19 Platform Specifications 57
ThinkVision T24m 26
ThinkVision T24m Platform Specifications 58
ThinkVision T24v 27
ThinkVision T24v Platform Specifications 59
ThinkVision X24 Pro 28
ThinkVision X24 Pro Platform Specifications 60
ThinkVision X24-20 29
ThinkVision X24-20 Platform Specifications 61
Above 25 Inch 30
ThinkVision P27h 31
ThinkVision P27h Platform Specifications 62
ThinkVision P27u 32
ThinkVision P27u Platform Specifications 63
ThinkVision P32u 33
ThinkVision P32u Platform Specifications 64
ThinkVision P44w-10 34
ThinkVision P44w-10 Platform Specifications 65
ThinkVision T27i 35
ThinkVision T27i Platform Specifications 66
ThinkVision T27p-10 36
ThinkVision T27p-10 Platform Specifications 67
ThinkVision X1 37
ThinkVision X1 Platform Specifications 68
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThinkVision X1 (2nd Gen)</td>
<td>69</td>
</tr>
<tr>
<td>ThinkVision X1 (2nd Gen) Platform Specifications</td>
<td>70</td>
</tr>
<tr>
<td>Legal Information</td>
<td>72</td>
</tr>
</tbody>
</table>
Summary of Changes

This section describes the technical changes made in this edition. This edition might also include minor corrections and editorial changes which are not identified.

June, 2019 - Version 543

Additions in this update

► New product(s)
  ThinkVision T27p-10 announced May 2019

► New model(s)
  None

► Others
  None

Withdrawals in this update

► Withdrawn product(s)
  ThinkVision P27 is withdrawn in the book
  ThinkVision T24i is withdrawn in the book
  ThinkVision T2423 is withdrawn in the book
  ThinkVision T2424z is withdrawn in the book
  ThinkVision T2220VA is withdrawn in the book
  ThinkVision T2364t is withdrawn in the book
  ThinkVision T2224z is withdrawn in the book
  ThinkVision Pro2820 is withdrawn in the book
### Lenovo ThinkVision E1922s Wide

<table>
<thead>
<tr>
<th>Name</th>
<th>E1922s Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60G2AR6US / 60G2A76EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, twisted nematic (TN), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>18.5&quot; (470mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>16.1&quot; x 9.1&quot; / 409.8mm x 230.4mm</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1366x768</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.3mm</td>
</tr>
<tr>
<td>Dot/Pixel per Inch</td>
<td>85 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>200 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>600:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>5ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>180° (+/- 90°) horizontal, 100° (+/- 50°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt adjustable stand</td>
</tr>
<tr>
<td>Bezels width</td>
<td>Sides: 0.73&quot; (18.5mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>13.44&quot; H x 17.65&quot; W x 6.58&quot; D;</td>
</tr>
<tr>
<td></td>
<td>341.5mm H x 448.4mm W x 167.2mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>13.7 watts typical, 17 watts maximum, &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>6.03 lb; 2.74 kg</td>
</tr>
<tr>
<td>Limited warranty†</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>March 2014</td>
</tr>
</tbody>
</table>

### Features
- Widescreen 18.5-inch monitor
- Supports HD 1366x768 resolution
- Supports VESA mount (100mm)
- Mercury free panel and arsenic free glass
- Kensington lock slot ready for enhanced security
- Support Lenovo Tiny PC via VESA mount
- Supports optional soundbar
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 / Windows 8.1 certified

### Preset resolutions
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600, 832x624
- XGA: 1024x768, 1152x864
- SXGA: 1280x1024
- WXGA: 1366x768

### Presets / user settings
- Standard presets: 15
- User settings: 16

### Viewing adjustments
- Tilt: 20° backward, -5° forward

### Rotating screen
- None

### On screen display
- Digital user controls (8 languages)

### Control features
- Direct access (control buttons on front) for automatic image setup and adjustment for brightness

### Multiple input
- None

### Monitor connectors
- VGA 15-pin D-shell, analog, blue

### Signal cables
- Detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter

### Mounting features
- Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

### Security
- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

### Ship group
- Monitor with stand, 1.8 meter analog signal cable, 1.8 meter black power cord

### Limited Warranty

### Accessories
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
**Lenovo ThinkVision E2054 Wide Monitor**

**Features**
- Widescreen 19.5-inch monitor
- Supports HD 1440x900 resolution
- Supports VESA mount (100mm)
- Mercury-free panel and arsenic-free glass
- Kensington lock slot ready for enhanced security
- Support Lenovo Tiny PC via VESA mount
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 / Windows 8.1 certified
- Microsoft Windows 10 certified

**Dimensions (HxWxD)**
14.65" H x 17.95" W x 7.41" D
372.0mm H x 456.0mm W x 188.3mm D

**Power supply**
- 16 watts typical, 20 watts maximum,
- <0.5 watts standby/suspend, universal,
- integrated (no external brick-like power supply)

**Weight**
- 6.17 lb; 2.8 kg

**Limited warranty**
- 3 year (includes backlight)

**VESA-compliant**
- VESA DPMS-compliant

**Power management**
- ENERGY STAR® 6.0

**Ergonomics**
- ISO 9241-307

**Emission standards**
- FCC Class B

**Environmental**
- TCO (TCO Displays 6.0), WEEE, RoHS,
- EPEAT™ Silver rating

**Preset resolutions**
- VGA: 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x768, 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900

**Presets / user settings**
- Standard presets: 18
- User settings: 10

**Ship group**
- Monitor with stand, 1.8 meter analog signal cable, 1.8 meter black power cord

**Limited Warranty**

**Accessories**
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
ThinkVision LT1913p Square Flat Panel Monitor

**Features**
- 19-inch Square IPS LED backlit panel
- Supports 1280x1024 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Mercury and arsenic free glass
- Low Halogen
- Recycled content in plastic material
- Supports optional soundbar
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 / Windows 8.1 certified
- Microsoft Windows 10 certified

**Specifications**

- **Name**: Lenovo ThinkVision LT1913p Square
- **Case color**: Black
- **Type-model**: 60FBHAR1US / 60FBHAT1EU
- **Panel**: TFT-LCD, In-Plane Switching (IPS), White LED backlight
- **Viewable image size**: 19.0" (480.0mm) diagonal
- **Max view area (W x H)**: 14.76" x 11.80" (374.7mm x 299.8mm)
- **Optimum resolution**: 1280x1024
- **Max pixel rate**: 205MHz (VGA), 165MHz (DVI)
- **Aspect ratio**: 5:4
- **Pixel pitch (mm)**: 0.0976 (H) x 0.2928 (V) mm
- **Dot/Pixel per Inch**: 86.8 dpi
- **Brightness**: 250 nits or cd/m² (typical)
- **Contrast ratio**: 1000:1 (typical)
- **Pixel response time**: 7ms (typical)
- **Color gamut**: 72%
- **Viewing angle at 10:1 CR**: 178° horizontal, 178° vertical
- **Stand**: Tilt, swivel, pivot, and height adjustable stand
- **Bezel width**: Sides: 0.68" (17.4mm); top: 0.68" (17.4mm); bottom: 0.68" (17.4mm)
- **Dimensions (HxWxD)**: 14.63" H x 16.18" W x 10.40" D;
  - 371.5mm H x 411.0mm W x 264.2mm D
- **Power supply**: 24 watts typical, 27 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)
- **Weight**: 10.69 lb; 4.85kg
- **Limited warranty**: 3 year (includes backlight)
- **Available date**: April 2015
- **VESA-compliant**: VESA DDC2B/CI, EDID 1.3
- **Power management**: ENERGY STAR® 7.0
- **Ergonomics**: ISO 9241-307
- **Emission standards**: FCC Class B
- **Environmental**: TCO Displays 7.0, TCO Certified Edge 1.1, WEEE, RoHS, EPEAT® Gold rating, ULE Gold
- **Preset resolutions**: VGA: 640x350, 640x480, 720x400
  - SVGA: 800x600, 824x624
  - XGA: 1024x768, 1152x864, 1152x900
  - SXGA: 1280x1024
- **Presets / user settings**: Standard presets: 20;
  - user settings: 20
- **Viewing adjustments**: Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/- 45°
- **Rotating screen**: Screen pivots 90 degrees from landscape to portrait
- **On screen display**: On screen display with digital user controls (8 languages)
- **Control features**: Direct access (buttons on front) for automatic image setup, input switch, and brightness
- **Multiple input**: Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)
- **Monitor connectors**: (1) VGA 15-pin D-shell, analog, blue
  - (2) Digital Visual Interface (DVI-D), digital, white, HDCP-compliant
- **Signal cables**: (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
  - (2) detachable, DVI-D at each end, digital, 1.8 meter
- **Mounting features**: Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
- **Security**: Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)
- **Ship group**: Monitor, attached stand, Setup poster, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter black power cord

**Accessories**

- **Kensington MicroSaver Cable Lock**: 73P2582
- **Kensington Twin Head Cable Lock**: 45K1620
- **Lenovo Security Cable Lock**: 57Y4303
- **Lenovo Easy Reach Monitor Stand**: 55Y9258

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

Lenovo
April 2015
**Lenovo ThinkVision T1714**

**Features**

- 17-inch Square LCD monitor
- Supports SXGA 1280x1024 resolution
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- Mercury Arsenic free glass
- Supports optional soundbar
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 certified
- Microsoft Windows 8.1 certified
- Microsoft Windows 10 certified

**T1714 Square Flat Panel Monitor**

- **Name**: T1714 Square Flat Panel Monitor
- **Case color**: Black
- **Type-model**: 60FDHAR1US / 60FDHAT1EU
- **Panel**: TFT-LCD, twisted nematic (TN), White LED backlight
- **Viewable image size**: 17.0" (432mm) diagonal
- **Max view area (W x H)**: 13.3" x 10.6" (337.9mm x 270.3mm)
- **Optimum resolution**: 1280x1024
- **Aspect ratio**: 5:4
- **Pixel pitch (mm)**: 0.264mm
- **Dot/Pixel per Inch**: 96 dpi
- **Brightness**: 250 nits or cd/m² (typical)
- **Contrast ratio**: 1000:1 (typical)
- **Pixel response time**: 5ms (typical)
- **Color gamut**: 72%
- **Viewing angle at 10:1 CR**: 170° (+/- 85°) horizontal, 160° (+/- 80°) vertical
- **Stand**: Tilt stand
- **Bezel width**: Sides: 0.99" (17.5mm)
- **Dimensions**: 14.72" H x 14.74" W x 7.87" D; 373.9mm H x 374.5mm W x 200mm D
- **Power supply**: 14.0 watts typical, 18.0 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)
- **Weight**: 5.75 lb; 2.61kg
- **Limited warranty**: 3 year (includes backlight)
- **Available date**: September 2015

**VESA-compliant**: VESA DDC2B/CI

**Power management**: ENERGY STAR® 7.0

**Ergonomics**: ISO 9241-307

**Emission standards**: FCC Class B

**Environmental**: TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating

**Preset resolutions**: VGA: 640x350, 640x480, 720x400

**Signal cables**: (1) VGA 15-pin D-shell, analog, blue (2) Digital Visual Interface (DVI-D), digital, white, HDCP-compliant

**Presets / user settings**: Standard presets: 17; user settings: 17

**Viewing adjustments**: Tilt: 22° back, -5° forward

**Rotating screen**: None

**On screen display**: On screen display with digital user controls (8 languages)

**Multiple input**: Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**: (1) VGA 15-pin D-shell, analog, blue (2) Digital Visual Interface (DVI-D), digital, white, HDCP-compliant

**Mounting features**: Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

**Security**: Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**: Monitor and stand, Setup poster, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter black power cord

- **Limited Warranty**

- **Accessories**
  - Kensington MicroSaver Cable Lock 73P2582
  - Kensington Twin Head Cable Lock 45K1820
  - Lenovo Easy Reach Monitor Stand 55Y9258

- See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

- See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
Lenovo ThinkVision T1714p

**Product Specifications Reference (PSREF)**

**Features**
- 17-inch Square LCD monitor
- Supports SXGA 1280x1024 resolution
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- Mercury Arsenic free glass
- Supports Lenovo Tiny PC and 3rd party thin client via optional Lenovo bracket
- Supports optional soundbar
- Microsoft Windows 7 certified
- Microsoft Windows 8 certified
- Microsoft Windows 8.1 certified
- Microsoft Windows 10 certified

**Lenovo ThinkVision T1714p Monitor**

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>T1714p Square Flat Panel Monitor</td>
</tr>
<tr>
<td>Case color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60FELAR1US / 60FELAT1EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, twisted nematic (TN), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>17.0&quot; (432mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>13.3&quot; x 10.6&quot; (337.9mm x 270.3mm)</td>
</tr>
<tr>
<td>Optimum resolution</td>
<td>1280x1024</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>5:4</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.264mm</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>5ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>170° (+/- 85°) horizontal, 160° (+/- 80°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt height adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.69&quot; (17.5mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD, including stand)</td>
<td>447.9mm H x 374.5mm W x 244.2mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>14.0 watts typical, 18.0 watts maximum, &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>8.71 lb; 3.95kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>September 2015</td>
</tr>
</tbody>
</table>

**VESA-compliant**
- VESA DDC2B/CI

**Power management**
- ENERGY STAR 7.0

**Ergonomics**
- ISO 9241-307

**Emission standards**
- FCC Class B

**Environmental**
- TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating

**Preset resolutions**
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768, 1152x864
- SXGA: 1280x800, 1280x1024

**Presets / user settings**
- Standard presets: 22;
- User settings: 22

**Viewing adjustments**
- Tilt: 22° back, -5° forward; Lift: 4.3" (110mm)

**Rotating screen**
- None

**On screen display**
- On screen display with digital user controls (8 languages)

**Control features**
- Direct access (buttons on front) for automatic image setup and brightness

**Multiple input**
- Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**
- (1) VGA 15-pin D-shell, analog, blue
- (2) Digital Visual Interface (DVI-D), digital, white, HDCP-compliant
- (3) DisplayPort, digital, black, HDCP-compliant

**Signal cables**
- (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
- (2) detachable, DVI-D at each end, digital, 1.8 meter

**Mounting features**
- Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

**Security**
- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
- Monitor and stand, Setup poster, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter black power cord

**Limited Warranty**


**Accessories**

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Easy Reach Monitor Stand 55Y9258

See details at www.lenovo.com/support/monitoraccessories

See all monitors at www.lenovo.com/thinkvision

Lenovo September 2015
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>T2054p Wide Flat Panel Monitor</td>
</tr>
<tr>
<td>Bezel color</td>
<td>Raven black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60G1MAR2US / 60G1MAT2EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching (IPS),</td>
</tr>
<tr>
<td>White LED backlight</td>
<td>19.5&quot; (495mm) diagonal</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>16.48&quot; x 10.33&quot; (418.6mm x 262.4mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1440x900</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:10</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.2915 x 0.2915 mm</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>7ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/− 89°) horizontal, 178° (+/− 89°) vertical</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Tilt, swivel, and height adjustable stand</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>13.62&quot; H x 17.88&quot; W x 9.55° D; 345.9mm H x 454.2mm W x 242.6mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>14.5 watts typical, 21 watts maximum, &lt;0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>8.16 lb; 3.70 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>September 2015</td>
</tr>
<tr>
<td>VESA-compliant†</td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x480, 720x400, 720x576</td>
</tr>
<tr>
<td></td>
<td>SVGA: 800x600</td>
</tr>
<tr>
<td></td>
<td>XGA: 1024x768, 1152x864</td>
</tr>
<tr>
<td></td>
<td>SXGA: 1280x800, 1280x1024</td>
</tr>
<tr>
<td></td>
<td>WXGA: 1366x768</td>
</tr>
<tr>
<td></td>
<td>WXGA+: 1440x900</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Standard presets: 22</td>
</tr>
<tr>
<td></td>
<td>user settings: 16</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 22° backward, -5° forward; lift: 4.3° (110mm); swivel: +/-45°; detachable stand</td>
</tr>
<tr>
<td>Rotating screen</td>
<td>None</td>
</tr>
<tr>
<td>On screen display</td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td>Control features</td>
<td>Direct access (buttons on front) for automatic image setup, dual input and brightness</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue</td>
</tr>
<tr>
<td></td>
<td>(2) HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(3) DisplayPort, digital, black, HDCP-compliant</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
</tr>
<tr>
<td></td>
<td>(2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
<tr>
<td>Security</td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td>Ship group</td>
<td>Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

**Limited Warranty**


**Accessories**

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
### Lenovo ThinkVision E21

**E21 Wide Flat Panel Monitor**

**Features**
- Widescreen 20.7-inch monitor
- Supports 1920x1080 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Supports optional soundbar
- EPEAT Gold certified
- Low Blue Light certification
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

**Specifications**

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>E21 Wide Flat Panel Monitor</td>
</tr>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61B9JAR1US / 61B9JAT1EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, twisted nematic (TN), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>20.7&quot; (525.78mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>18.03&quot; x 10.14&quot; (457.92mm x 257.58mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.2385 x 0.2385 mm</td>
</tr>
<tr>
<td>Dot/Pixel per Inch</td>
<td>106 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>5ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>170° (+/- 85°) horizontal, 160° (+/- 80°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.6&quot; (15.3mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>14.6&quot; H x 19.31&quot; W x 8.07&quot; D; 370.9mm H x 490.5mm W x 204.9mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>18 watts typical, 23 watts maximum, &lt;0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>5.82 lb; 2.64 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>August 2017</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x350, 640x480, 720x400, SVGA: 800x600, 832x624, XGA: 1024x768, 1152x864, SXGA: 1280x1024, WXGA+: 1440x900, WSXGA+: 1680x1050, Full HD: 1920x1080</td>
</tr>
<tr>
<td>Presets display modes</td>
<td>Standard presets: 22</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 22° back, -5° forward</td>
</tr>
<tr>
<td>Rotating screen</td>
<td>None</td>
</tr>
<tr>
<td>On screen display</td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td>Control features</td>
<td>Direct access (buttons on front) for power, menu, input source select and brightness</td>
</tr>
<tr>
<td>USB hub</td>
<td>None</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue</td>
</tr>
<tr>
<td>(2) DisplayPort (1.2), digital, black, HDCP-compliant</td>
<td></td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
<tr>
<td>Security</td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
</tbody>
</table>

**Accessories**

- Kensington MicroSaver Cable Lock 73P2682
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

---

**Limited Warranty**


**Ship group**

Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter black power cord

---

**Lenovo**

August 2017
### Lenovo ThinkVision E24

#### Product Specifications Reference (PSREF)

| Name | Bezel color | Type-model | Panel | Viewable image size | Max view area (W x H) | Native resolution | Aspect ratio | Pixel pitch (mm) | Max view area (W x H) | Dot/Pixel per Inch | Brightness | Contrast ratio | Pixel response time | Color gamut | Viewing angle at 10:1 CR | Stand | Bezel width | Dimensions (HxWxD) | Power supply | Weight | Limited warranty | Available date | VESA-compliant | Power management | Emission standards | Environmental | Preset resolutions | Presets display modes | View adjustments | Rotating screen | Control features | USB hub | Multiple input | Monitor connectors | Signal cables | Mounting features | Security | Ship group | Limited Warranty | Accessories |
|------|-------------|-------------|-------|---------------------|------------------------|-----------------------|---------------|----------------|---------------------|----------------------|-------------|----------------|------------------|------------|----------------------|--------|-------------|----------------------|----------------|---------|----------------|----------------|---------------|------------------|--------------|--------------|----------------|----------------|-----------------|----------------|----------------|-----------------|-----------------|
|      |             |             |       |                     |                        |                       |               |                |                     |                     |             |              |                  |            |                     |        |              |                      |                |         |                |                |               |                  |              |              |                |                  |                 |                |              |                |                  |                  |                 |                |                 |                |
**Lenovo ThinkVision P24h**

**Product Specifications Reference (PSREF)**

- **Name**: P24h Wide Flat Panel Monitor
- **Bezel color**: Black
- **Type-model**: 61AEGAR3US / 61AEGAT3EU
- **Panel**: TFT-LCD, In-Plane Switching (IPS), White LED backlight
- **Viewable image size**: 23.8" (604.7mm) diagonal
- **Max view area (W x H)**: 20.74" x 11.67" (526.9mm x 296.4mm)
- **Native resolution**: 2560x1440
- **Aspect ratio**: 16:9
- **Pixel pitch (mm)**: 0.2058x 0.2058 mm
- **Dot/Pixel per Inch**: 124 dpi
- **Brightness**: 300 nits or cd/m² (typical)
- **Contrast ratio**: 1000:1 (typical)
- **Pixel response time**: 4ms (extreme) / 6ms (typical)
- **Color gamut**: 99% sRGB
- **Viewing angle at 10:1 CR**: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
- **Bezel width**: Sides: 0.08" (2.0mm)
- **Dimensions (HxWXD)**: 14.7" H x 21.26" W x 10.3" D; 373.4mm H x 540.2mm W x 261.75mm D
- **Power supply**: 24 watts typical, 120 watts maximum (with USB 3.0 hub), <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)
- **Weight**: 12.54 lb; 5.69 kg
- **Limited warranty**: 3 year (includes backlight)
- **Available date**: April 2017
- **VESA-compliant**: VESA DDC2B/CI
- **Power management**: ENERGY STAR® qualified
- **Ergonomics**: ISO 9241-307
- **Emmission standards**: FCC Class B
- **Environmental**: TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating
- **Presets resolutions**: VGA: 640x480, 720x400
  - SVGA: 800x600
  - XGA: 1024x768
  - SXGA: 1280x1024
  - WXGA: 1366x768
  - WXGA+: 1440x900, 1680x900
  - WSXGA+: 1680x1050
  - Full HD: 1920x1080, 1920x1200
  - QHD: 2560x1440
- **Preset modes**: HDMI: 22; DP: 14
- **Viewing adjustments**: Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/-45°; detachable stand
- **Rotating screen**: Screen pivots 90 degrees from landscape to portrait
- **On screen display**: On screen display with digital user controls (8 languages)
- **Control features**: Direct access (buttons on front) for power, menu, input source select and brightness
- **USB hub**: USB Hub: one USB 3.1 Type-C upstream port, four USB 3.0 Type-A downstream ports
- **Multimedia**: Audio-out, optional sound bar supported
- **Camera**: None
- **Multiple input**: Support HDMI, DisplayPort, USB 3.1 Type-C, DisplayPort-out
- **Monitor connectors**: (1) 2*HDMI (1.4), digital, HDCP-compliant, (2) DisplayPort (1.2), digital, HDCP-compliant, (3) DisplayPort-out, digital, (4) USB 3.1 Type-C
- **Signal cables**: (1) USB 3.1 Type-C cable, 1.8 meter
- **Mounting features**: Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount
- **Security**: Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)
- **Ship group**: Monitor with stand, Safety and Warranty Information, 1.8 meter USB 3.1 Type-C cable, 1.8 meter black power cord

**Features**

- Widescreen 23.8-inch monitor
- Supports 2560x1440 resolution
- Supports optional soundbar
- Supports ThinkCentre Tiny Clamp Bracket
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Gold certified
- Microsoft Windows® 7 certified
- Microsoft Windows 10 certified

**Limited Warranty**


**Accessories**

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

Lenovo
July 2017
ThinkVision P24q Monitor

Name
P24q Wide Flat Panel Monitor
Case color
Black
Type-model
61A5GAR3US / 61A5GAT3EU
Panel
TFT-LCD, IPS (In-Plane Switching), White LED backlight
Viewable image size
23.8” (604.5mm) diagonal
Max view area (W x H)
20.74” x 11.67” (526.85mm x 296.35mm)
Optimum resolution
2560x1440
Max pixel rate
300MHz
Aspect ratio
16:9
Pixel pitch (mm)
0.2058 x 0.2058mm
Dot/Pixel per Inch
123 dpi
Contrast ratio
300 nits or cd/m² (typical)
Pixel response time
4ms
Color gamut
99% sRGB
Viewing angle at 10:1 CR
178° horizontal, 178° vertical
Stand
Tilt, swivel, pivot, and height adjustable stand
Bezel width
Sides: 0.08” (2mm)
Dimensions
(Height x Width x Depth, including stand)
373.4mm H x 540.2mm W x 261.75mm D
Power supply
24 watts typical,
67 watts maximum (with USB),
<0.5 watts sleep/off;
<0.5 watts switch off
Weight
12.35 lb; 5.6kg (including stand)
Limited warranty
3 year
Available date
January 2017
VESA-compliant
VESA DDC2B/C
Power management
ENERGY STAR® 7.0
Ergonomics
ISO 9241-307
Emission standards
FCC Class B
Environmental
TCO Displays 7.0, RoHS, EPEAT™ Gold rating,
ULE Gold
Preset resolutions
VGA: 640x480, 720x400
SVGA: 800x600
XGA: 1024x768
SXGA: 1280x1024
WXGA: 1366x768
WXGA+: 1440x900, 1600x900
WSXGA+: 1680x1050
Full HD: 1920x1080, 1920x1200
QHD: 2560x1440
Presets / user settings
Standard presets: 20; user settings: 24
Viewing adjustments
Tilt: 30° back, -5° forward; lift: 4.33” (110mm); swivel: +/-45°
Rotating screen
Screen pivots 90 degrees from landscape to portrait
On screen display
On screen display with digital user controls (8 languages)
Control features
Direct access for menu, source switch, and brightness
USB hub
USB Hub: one USB 3.0 upstream port, four USB 3.0 downstream ports
Multimedia
Audio-out, optional sound bar supported
Camera
None
Multiple input
Support HDMI, DisplayPort, mini DisplayPort, DisplayPort-out
Monitor connectors
(1) 2*HDMI (1.4), digital, HDCP-compliant
(2) DisplayPort (1.2), digital, HDCP-compliant
(3) Mini DisplayPort, digital, HDCP-compliant
Signal cables
(1) detachable, mini DisplayPort to DisplayPort, digital, 1.8 meter
Mounting features
Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
Security
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)
Ship group
Monitor, detachable stand, Quick start and safety poster, 1.8 meter USB 3.0 cable,
1.8 meter mini DP to DP cable, 1.8 meter black power cord

Limited Warranty

Accessories
Kensington MicroSaver Cable Lock 73P2582
Kensington Twin Head Cable Lock 45K1620
Lenovo Security Cable Lock 57Y4303
See details at www.lenovo.com/support/monitoraccessories
See all monitors at www.lenovo.com/thinkvision

Lenovo
July 2017
### Lenovo ThinkVision T2224d Wide

**Features**

- Widescreen 21.5-inch monitor
- Supports 1920x1080 resolution
- Supports optional soundbar
- Supports ThinkCentre Tiny via VESA back mount
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

<table>
<thead>
<tr>
<th>Name</th>
<th>T2224d Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61B1JAR1US / 61B1JAT1EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>21.5” (546mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>18.74” x 10.54” (476.1mm x 267.8mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.248 x 0.248 mm</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>7ms (typical); 4ms (extreme mode)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.69” (17.6mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>15.02” H x 20.19” W x 8.06” D; 381.4mm H x 512.9mm W x 204.9mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>20 watts typical, 25 watts maximum</td>
</tr>
<tr>
<td>&lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>6.48 lb; 2.94 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>March 2017</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/C1</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x350, 640x480, 720x400, SVGA: 800x600, XGA: 1024x768, 1152x864, SXGA: 1280x1024, WXGA: 1280x768, 1280x800, 1366x768, WXGA+: 1440x900, WSXGA+: 1680x1050, Full HD: 1920x1080</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Standard presets: 22; user settings: 22</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 22° back, -5° forward</td>
</tr>
<tr>
<td>Rotating screen</td>
<td>None</td>
</tr>
<tr>
<td>On screen display</td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td>Control features</td>
<td>Direct access (buttons on front) for automatic image setup, dual input and brightness</td>
</tr>
<tr>
<td>USB hub</td>
<td>None</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue (2) DisplayPort, digital, black, HDCP-compliant</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter (2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
<tr>
<td>Security</td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td>Ship group</td>
<td>Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

**Limited Warranty**


**Accessories**

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
Lenovo ThinkVision T2254p Wide

**Name**
T2254p Wide Flat Panel Monitor

**Bezel color**
Raven black

**Type-model**
61BAMAR2US / 60E1MAR2US / 60CCMAR2US / 60CCMAT2EU / 61BAMAT2EU

**Panel**
TFT-LCD, twisted nematic (TN), White LED backlight

**Viewable image size**
22.0” (559mm) diagonal

**Max view area (W x H)**
18.70” x 11.70” (473.8mm x 296.1mm)

**Native resolution**
1680x1050

**Aspect ratio**
16:10

**Pixel pitch (mm)**
0.282 x 0.282 mm

**Brightness**
250 nits or cd/m² (typical)

**Contrast ratio**
1000:1 (typical)

**Pixel response time**
5ms (typical)

**Color gamut**
72%

**Viewing angle at 10:1 CR**
170° (+/- 85°) horizontal, 160° (+/- 80°) vertical

**Stand**
Tilt, swivel, pivot, and height adjustable stand

**Bezel width**
Sides: 0.67” (17.1mm)

**Dimensions (HxWxD)**
14.63” H x 20.01” W x 9.55” D; 371.7mm H x 509.3mm W x 242.7mm D

**Power supply**
20 watts typical, 25 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**
10.14 lb; 4.60 kg

**Limited warranty**
3 year (includes backlight)

**Available date**
March 2015

**VESA-compliant**
VESADDC2B/CI

**Power management**
ENERGY STAR® qualified

**Emission standards**
ISO 9241-307

**Environmental**
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating

**Presets / user settings**
Standard presets: 28; user settings: 20

**Viewing adjustments**
Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/– 45°; detachable stand

**Rotating screen**
Screen pivots 90 degrees from landscape to portrait

**On screen display**
On screen display with digital user controls (8 languages)

**Control features**
Direct access (buttons on front) for automatic image setup, dual input and brightness

**USB hub**
None

**Multiple input**
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**
(1) VGA 15-pin D-shell, analog, blue
(2) HDMI (1.4), digital, HDCP-compliant
(3) DisplayPort, digital, black, HDCP-compliant

**Signal cables**
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DisplayPort at each end, digital, 1.8 meter

**Mounting features**
Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter black power cord

**Limited Warranty**

**Accessories**
Kensington MicroSaver Cable Lock 73P2582
Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
**Lenovo ThinkVision T22i**

**Name**
T22i Wide Flat Panel Monitor

**Bezel color**
Black

**Type-model**
61A9MAR1US / 61A9MAT1EU

**Panel**
TFT-LCD, In-Plane Switching (IPS), White LED backlight

**Viewable image size**
21.5" (546mm) diagonal

**Max view area (W x H)**
18.74" x 10.54" (476.1mm x 267.8mm)

**Native resolution**
1920x1080

**Aspect ratio**
16:9

**Pixel pitch (mm)**
0.248 x 0.248 mm

**Dot/Pixel per Inch**
102 dpi

**Brightness**
250 nits or cd/m² (typical)

**Contrast ratio**
1000:1 (typical)

**Pixel response time**
6ms (typical); 4ms (extreme mode)

**Color gamut**
72%

**Viewing angle at 10:1 CR**
178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

**Stand**
Tilt, swivel, pivot, and height adjustable stand

**Dimensions (HxWxD)**
Sides: 0.08" (2.0mm)

**Power supply**
16.5 watts typical, 55 watts maximum (with USB 3.0 hub), <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**
10.85 lb; 4.92 kg

**Limited warranty**
3 year (includes backlight)

**Available date**
April 2017

**VESA-compliant**
VESA DDC2B/CI

**Power management**
ENERGY STAR® qualified

**Ergonomics**
ISO 9241-307

**Emission standards**
FCC Class B

**Environmental**
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating

**Preset resolutions**
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768, 1152x864
- SXGA: 1280x1024
- WXGA: 1280x768, 1366x768
- WXGA+: 1440x900, 1680x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080

**Presets display modes**
HDMI: 17; DP: 17

**Viewing adjustments**
Tilt: 30° back, -5° forward; lift: 4.3" (110mm); swivel: +/-45°; detachable stand

**Rotating screen**
Screen pivots 90 degrees from landscape to portrait

**On screen display**
On screen display with digital user controls (8 languages)

**USB hub**
USB 3.0 Hub: 1 port into PC (USB 3.0); 4 ports for accessories (4 USB 3.0)

**Multiple input**
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**
(1) VGA 15-pin D-shell, analog, blue
(2) HDMI (1.4), digital, HDCP-compliant
(3) DisplayPort, digital, black, HDCP-compliant

**Signal cables**
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DisplayPort at each end, digital, 1.8 meter

**Mounting features**
Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter USB signal cable, 1.8 meter black power cord

---

**Features**
- Widescreen 21.5-inch monitor
- Supports 1920x1080 resolution
- Supports optional soundbar
- Supports ThinkCentre Tiny via VESA back mount
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

**ThinkVision T22i Wide Monitor**

---

**Accessories**
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

---

**Lenovo**
July 2017
## Features

- Widescreen 21.5-inch monitor
- Supports 1920x1080 resolution
- Supports optional soundbar
- Supports ThinkCentre Tiny via VESA back mount
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

## Preset resolutions

| Preset | VGA: 640x480, 720x400 | SVGA: 800x600, 832x624 | XGA: 1024x768, 1152x864 | SXGA: 1280x1024 | WXGA+: 1440x900, 1600x900 | WSXGA+: 1680x1050 | Full HD: 1920x1080 |

## Presets display modes

- Presets: 24; user modes: 20

## Viewing adjustments

- Tilt: 30° back, -5° forward; swivel: +/-45°; detachable stand
- Screen pivots 90 degrees from landscape to portrait
- On screen display digital controls (8 languages)

## Rotating screen

- Screen pivots 90 degrees from landscape to portrait

## Control features

- Direct access for power, menu, input source select, volume up / down, speaker mute and microphone mute

## USB hub

- USB 3.0 Hub: 1 port into PC (USB 3.0); 2 ports for accessories (2 USB 3.0)

## Multimedia

- Integrated speakers, dual-array microphone, audio-in and Audio-out, optional soundbar supported

## Camera

- Integrated FHD camera with IR

## Multiple input

- Support HDMI, DisplayPort, VGA

## Monitor connectors

- (1) VGA 15-pin D-shell, analog, blue
- (2) HDMI (1.4), digital, HDCP-compliant
- (3) DisplayPort, digital, black, HDCP-compliant

## Signal cables

- (1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
- (2) detachable, DisplayPort at each end, digital, 1.8 meter

## Mounting features

- Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

## Security

- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

## Ship group

- Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter USB signal cable, 1.8 meter black power cord, 1.8 meter HDMI signal cable (Row)

---

**ThinkVision T22v Wide Flat Panel Monitor**

**Type-model:** 61BBMAR6US / 61BBMAT6EU

**Panel:** TFT-LCD, In-Plane Switching (IPS), White LED backlight

**Viewable image size:** 21.5” (546mm) diagonal

**Max view area (W x H):** 18.74” x 10.54” (476.1mm x 267.8mm)

**Native resolution:** 1920x1080

**Aspect ratio:** 16:9

**Pixel pitch (mm):** 0.248 x 0.248 mm

**Dot/Pixel per Inch:** 102 dpi

**Brightness:** 250 nits or cd/m² (typical)

**Contrast ratio:** 1000:1 (typical)

**Pixel response time:** 6ms (typical); 4ms (extreme mode)

**Color gamut:** 72%

**Viewing angle at 10:1 CR:** 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

**Stand:** Tilt, swivel, pivot, and height adjustable stand

**Bezel width:** Sides: 0.08” (2.0mm)

**Dimensions (HxWxD):** 19.14” H x 19.28” W x 9.92” D; 485.8mm H x 489.7mm W x 251.9mm D

**Power supply:** 18 watts typical, 43 watts maximum (with USB 3.0 hub), <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight:** 10.16 lb; 4.61 kg

**Limited warranty:** 3 year (includes backlight)

**Available date:** October 2017

**VESA-compliant:** VESA DDC2B/CI

**Power management:** ENERGY STAR® qualified

**Emission standards:** ISO 9241-307

**Environmental:** TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating

**Preset resolutions:**

- VGA: 640x480, 720x400
- SVGA: 800x600, 832x624
- XGA: 1024x768, 1152x864
- SXGA: 1280x1024
- WXGA+: 1440x900, 1600x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080

---

## Accessories

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
Lenovo ThinkVision T2324d Wide

**Name**
ThinkVision T2324d Wide Flat Panel Monitor

**Bezel color**
Black

**Type-model**
60F3JAR2US / 60F3JAT2EU

**Panel**
TFT-LCD, twisted nematic (TN), White LED backlight

**Viewable image size**
23.0" (584mm) diagonal

**Max view area (W x H)**
20.07" x 11.29" (509.8mm x 286.7mm)

**Native resolution**
1920x1080

**Aspect ratio**
16:9

**Pixel pitch (mm)**
0.2655 x 0.2655 mm

**Dot/Pixel per Inch**
96 dpi

**Brightness**
250 nits or cd/m² (typical)

**Contrast ratio**
1000:1 (typical)

**Pixel response time**
5ms (typical)

**Color gamut**
72%

**Viewing angle at 10:1 CR**
170° (+/- 85°) horizontal, 160° (+/- 80°) vertical

**Stand**
Tilt stand

**Bezel width**

<table>
<thead>
<tr>
<th>Sides</th>
<th>0.68&quot; (17.3mm)</th>
</tr>
</thead>
</table>

**Dimensions (HxWxD)**

| 15.75" H x 21.48" W x 8.06" D | 400.3mm H x 545.8mm W x 204.9mm D |

**Power supply**
20 watts typical,

| 27 watts maximum |

<0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**
7.06 lb; 3.20 kg

**Limited warranty**
3 year (includes backlight)

**Available date**
June 2016

**VESA-compliant**
VESA DDC2B/CI

**Power management**
ENERGY STAR® qualified

**Ergonomics**
ISO 9241-307

**Emission standards**
FCC Class B

**Environmental**
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE,
RoHS, EPEAT™ Gold rating

**Preset resolutions**
VGA: 640x350, 640x480, 720x400
SVGA: 800x600
XGA: 1024x768, 1152x864
SXGA: 1280x1024
WXGA: 1280x768, 1280x800, 1366x768
WXGA+: 1440x900
WSXGA+: 1680x1050
Full HD: 1920x1080

**Presets / user settings**
Standard presets: 26; user settings: 16

**Viewing adjustments**
Tilt: 22° back, -5°

**Rotating screen**
None

**On screen display**
On screen display with digital user controls (8 languages)

**Control features**
Direct access (buttons on front) for automatic image setup, dual input and brightness

**USB hub**
None

**Multiple input**
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**
(1) VGA 15-pin D-shell, analog, blue
(2) DisplayPort, digital, black, HDCP-compliant

**Signal cables**
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DisplayPort at each end, digital, 1.8 meter

**Mounting features**
Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter black power cord

**Limited Warranty**

**Accessories**

| Kensington MicroSaver Cable Lock | 73P2582 |
| Kensington Twin Head Cable Lock | 45K1620 |

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

---

This document contains the specifications for the Lenovo ThinkVision T2324d Wide monitor, including details on its display size, resolution, aspect ratio, pixel pitch, brightness, contrast ratio, and other features. The monitor supports dual input connections for attachment to two systems concurrently (analog and digital) and is EPEAT Gold certified. It is also Microsoft® Windows® 7 and 10 certified. The monitor comes with a 3-year warranty and is available for purchase in June 2016. Additional accessories are available, including Kensington lock-compatible cables. The monitor is compliant with VESA DDC2B/CI standards and meets various environmental and emission standards. Preset resolutions include VGA, SVGA, XGA, SXGA, WXGA, WXGA+, WSXGA+, and Full HD formats. User settings allow for customization, and the monitor supports standard viewing adjustments like tilt. Multi-display setups are possible through dual input connections. The monitor is designed for wall or desk mounting and includes a security keyhole for cable locks. For detailed information, visit the Lenovo support website.
<table>
<thead>
<tr>
<th>Name</th>
<th>T23d-10 Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61C3MAR6US / 61C3MAT6EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>22.5&quot; (571.5mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>19.5&quot; x 12.4&quot; (496.2mm x 313.9mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1200</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:10</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.25 x 0.25 mm</td>
</tr>
<tr>
<td>Dot/Pixel per inch</td>
<td>100.6 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>6ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>19.37&quot; H x 19.73&quot; W x 9.9&quot; D; 491.9mm H x 501.2mm W x 251.9mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>15 watts typical, 18 watts maximum, &lt;0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>10.67 lb; 4.85 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>June 2018</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x480, 720x400</td>
</tr>
<tr>
<td></td>
<td>SVGA: 800x600</td>
</tr>
<tr>
<td></td>
<td>XGA: 1024x768</td>
</tr>
<tr>
<td></td>
<td>SXGA: 1280x1024</td>
</tr>
<tr>
<td></td>
<td>WXGA: 1366x768</td>
</tr>
<tr>
<td></td>
<td>WXGA+: 1440x900</td>
</tr>
<tr>
<td></td>
<td>WSXGA+: 1680x1050</td>
</tr>
<tr>
<td></td>
<td>Full HD: 1920x1080</td>
</tr>
<tr>
<td></td>
<td>WUXGA: 1920x1200</td>
</tr>
<tr>
<td>Presets display modes</td>
<td>Standard presets: 27; user settings: 20</td>
</tr>
<tr>
<td>View adjustments</td>
<td>Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/-45°; detachable stand</td>
</tr>
<tr>
<td>Rotating screen</td>
<td>Screen pivots 90 degrees from landscape to portrait</td>
</tr>
<tr>
<td>On screen display</td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td>Control features</td>
<td>Direct access (buttons on front) for power, menu, input source select and brightness</td>
</tr>
<tr>
<td>USB hub</td>
<td>None</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue</td>
</tr>
<tr>
<td></td>
<td>(2) HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(3) DisplayPort, digital, black, HDCP-compliant</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
</tr>
<tr>
<td></td>
<td>(2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
<tr>
<td>Security</td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td>Ship group</td>
<td>Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter black power cord, 1.8 meter HDMI signal cable (NA only)</td>
</tr>
</tbody>
</table>

**Features**
- Widescreen 22.5-inch monitor
- Supports 1920x1200 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Supports optional soundbar
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

**ThinkVision T23d-10 Wide Monitor**

**Accessories**
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

Note: The specifications above may not be available in all regions.
## Lenovo ThinkVision T23i

**Features**

- **Widescreen 23-inch monitor**
- **Supports 1920x1080 resolution**
- **Supports ThinkCentre Tiny Clamp Bracket**
- Includes dual input connection for attachment to two systems concurrently
- **EPEAT Gold certified**
- **Microsoft® Windows® 7 certified**
- **Microsoft Windows 10 certified**

### Name

**ThinkVision T23i Wide Monitor**

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>T23i Wide Flat Panel Monitor</td>
</tr>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61ABMAR1US / 61ABMAT1EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>23” (584.2mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.36” x 11.92” (517.2mm x 302.8mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.2652 x 0.2652 mm</td>
</tr>
<tr>
<td>Dot/PerPixel inch</td>
<td>95.8 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>6ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>13.3” H x 20.56” W x 10.4” D; 337.7mm H x 522.2mm W x 264.2mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>16 watts typical, 45 watts maximum (with USB 3.0 hub), &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>10.65 lb; 4.92 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>April 2017</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x480, 720x400</td>
</tr>
<tr>
<td></td>
<td>SVGA: 800x600</td>
</tr>
<tr>
<td></td>
<td>XGA: 1024x768, 1152x864</td>
</tr>
<tr>
<td></td>
<td>SXGA: 1280x1024</td>
</tr>
<tr>
<td></td>
<td>WXGA+: 1440x900</td>
</tr>
<tr>
<td></td>
<td>WSXGA+: 1860x1050</td>
</tr>
<tr>
<td></td>
<td>Full HD: 1920x1080</td>
</tr>
<tr>
<td>Presets display modes</td>
<td>HDMI: 18; DP: 18</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/-45°; detachable stand</td>
</tr>
<tr>
<td>Rotating screen</td>
<td>Screen pivots 90 degrees from landscape to portrait</td>
</tr>
<tr>
<td>On screen display</td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td>Control features</td>
<td>Direct access (buttons on front) for power, menu, input source select and brightness and automatic image setup</td>
</tr>
<tr>
<td>USB hub</td>
<td>USB 3.0 Hub: 1 port into PC (USB 3.0); 4 ports for accessories (4 USB 3.0)</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue</td>
</tr>
<tr>
<td></td>
<td>(2) HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(3) DisplayPort, digital, black, HDCP-compliant</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
</tr>
<tr>
<td></td>
<td>(2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
<tr>
<td>Security</td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td>Ship group</td>
<td>Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter USB signal cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

### Accessories

- **Kensington MicroSaver Cable Lock** 73P2582
- **Kensington Twin Head Cable Lock** 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

---

**Limited Warranty**

<table>
<thead>
<tr>
<th>Name</th>
<th>T2454p Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Raven black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60F9MAR1US / 60F9MAT1EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>24.0” (609.6mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.41” x 12.76” (518.4mm x 324.0mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1200</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:10</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.270 x 0.270 mm</td>
</tr>
<tr>
<td>Brightness</td>
<td>300 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>7ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>77.4%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.74” (18.8mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>15.85” H x 21.94” W x 10.39” D; 402.5mm H x 557.4mm W x 264.2mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>24 watts typical, 27 watts maximum (without USB 3.0 hub), 54 watts maximum (with USB 3.0 hub), &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>13.60 lb; 6.15 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>March 2015</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/C1</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x350, 640x480, 720x400; SVGA: 800x600; XGA: 1024x768; SXGA: 1280x1024; WXGA: 1280x720, 1280x768, 1280x800; WXGA+: 1440x900; WSXGA+: 1680x1050, 1600x1200; Full HD: 1920x1080, 1920x1200</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Standard presets: 21; user settings: 20</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/-45°; detachable stand</td>
</tr>
<tr>
<td>Rotating screen</td>
<td>Screen pivots 90 degrees from landscape to portrait</td>
</tr>
<tr>
<td>On screen display</td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td>Control features</td>
<td>Direct access (buttons on front) for automatic image setup, dual input and brightness</td>
</tr>
<tr>
<td>USB hub</td>
<td>USB 3.0 Hub: 1 port into PC (USB 3.0); 4 ports for accessories (4 USB 3.0)</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue; (2) HDMI (1.4), digital, HDCP-compliant; (3) DisplayPort, digital, black, HDCP-compliant</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter; (2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
<tr>
<td>Security</td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td>Ship group</td>
<td>Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DisplayPort cable, 1.8 meter USB signal cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

**Features**
- Widescreen 24.0-inch monitor
- Supports 1920x1200 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Supports optional soundbar
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 / Windows 8.1 certified
- Microsoft Windows 10 certified

**Accessories**
- Kensington MicroSaver Cable Lock
- Kensington Twin Head Cable Lock

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

Lenovo
November 2016
Lenovo ThinkVision T24d Wide Flat Panel Monitor

Features
- Widescreen 24-inch monitor
- Supports 1920x1200 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Supports optional soundbar
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

T24d Wide Flat Panel Monitor
Black
61B4MAR1US / 61B4MAT1EU
TFT-LCD, In-Plane Switching (IPS), White LED backlight
24" (609.6mm) diagonal
20.41" x 12.75" (518.4mm x 324mm)
1920x1200
16:10
0.27 x 0.27 mm
94 dpi
300 nits or cd/m² (typical)
1000:1 (typical)
7ms (typical)
99%
178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
Tilt, swivel, pivot, and height adjustable stand
22 watts typical, 64 watts maximum (with USB 3.0 hub), <0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)
12.41 lb; 5.63 kg
3 year (includes backlight)
June 2017
VESA DDC2B/CI
ENERGY STAR® qualified
ISO 9241-307
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating
VGA: 640x480, 720x400
SVGA: 800x600
XGA: 1024x768
SXGA: 1280x1024
WXGA: 1366x768
WXGA+: 1440x900
WSXGA+: 1680x1050
Full HD: 1920x1080
WUXGA: 1920x1200
Standard presets: 22; user settings: 20
Viewing adjustments
Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/-45°; detachable stand
Rotating screen
Screen pivots 90 degrees from landscape to portrait
On screen display
On screen display with digital user controls (8 languages)
Control features
Direct access (buttons on front) for power, menu, input source select and brightness
USB hub
USB 3.0 Hub: 1 port into PC (USB 3.0); 4 ports for accessories (4 USB 3.0)
Multiple input
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)
Monitor connectors
(1) VGA 15-pin D-shell, analog, blue
(2) HDMI (1.4), digital, HDCP-compliant
(3) DisplayPort, digital, black, HDCP-compliant
Signal cables
(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter
(2) detachable, DisplayPort at each end, digital, 1.8 meter
Mounting features
Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount
Security
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)
Ship group
Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter USB signal cable, 1.8 meter black power cord, 1.8 meter HDMI signal cable (NA only)

Limited Warranty

Accessories
Kensington MicroSaver Cable Lock
73P2582
Kensington Twin Head Cable Lock
45K1620

See details at www.lenovo.com/support/monitoraccessories
See all monitors at www.lenovo.com/thinkvision

Lenovo
July 2017
**SPECIFICATIONS**

### DISPLAY

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Size</td>
<td>23.8” Wide</td>
</tr>
<tr>
<td>Panel Type</td>
<td>In-Plane Switching</td>
</tr>
<tr>
<td>Backlight</td>
<td>WLED</td>
</tr>
<tr>
<td>Resolution (H x V)</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Anti-Glare</td>
<td>Yes</td>
</tr>
<tr>
<td>Near Edgeless Screen</td>
<td>Yes</td>
</tr>
<tr>
<td>Screen Dimensions (W x H)</td>
<td>(mm) 527.04 x 296.46</td>
</tr>
<tr>
<td></td>
<td>(inches) 20.75” x 11.67”</td>
</tr>
<tr>
<td>Maximum Brightness (Typical)</td>
<td>250 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle (H/V at CR 10:1)</td>
<td>178°/178°</td>
</tr>
<tr>
<td>Contrast Ratio (Typical)</td>
<td>1000:1</td>
</tr>
<tr>
<td>Dynamic Contrast Ratio</td>
<td>3M:1</td>
</tr>
<tr>
<td>Pixel Pitch (mm)</td>
<td>0.2745 x 0.2745</td>
</tr>
<tr>
<td>Color Gamut (CIE 1931)</td>
<td>72% NTSC</td>
</tr>
<tr>
<td>Color Support (Typical)</td>
<td>16.7 Million</td>
</tr>
<tr>
<td>Response Time (gray to gray)</td>
<td>4 ms (Extreme mode)</td>
</tr>
<tr>
<td></td>
<td>6 ms (Normal mode)</td>
</tr>
<tr>
<td>OSD Controls</td>
<td>Buttons 5</td>
</tr>
<tr>
<td></td>
<td>Languages English, French, German, Spanish, Italian, Japanese, Simplified Chinese, Russian</td>
</tr>
</tbody>
</table>

### CONNECTIVITY

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Input Signals</td>
<td>VGA + HDMI™ 1.4 + DisplayPort™ 1.2</td>
</tr>
<tr>
<td>Video Cables Supplied (Length)</td>
<td>1 x USB 3.0’ (Upstream)</td>
</tr>
<tr>
<td></td>
<td>4 x USB 3.0’ (Downstream, Incl. 1 BC)</td>
</tr>
<tr>
<td>USB Hub</td>
<td>1 x USB 3.0</td>
</tr>
<tr>
<td></td>
<td>1 x DisplayPort™ - DisplayPort™ Cable</td>
</tr>
<tr>
<td></td>
<td>1 x HDMI™ Cable (NA Only)</td>
</tr>
<tr>
<td>Audio Out</td>
<td>Yes (3.5 mm)</td>
</tr>
</tbody>
</table>

### MECHANICAL

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilt Angle (Front / Back)</td>
<td>-5° / 30°</td>
</tr>
<tr>
<td>Swivel Angle (Left / Right)</td>
<td>+/-45°</td>
</tr>
<tr>
<td>Lift Range (mm)</td>
<td>110</td>
</tr>
<tr>
<td>Pivot</td>
<td>+/-90°</td>
</tr>
<tr>
<td>Cable Management</td>
<td>Yes</td>
</tr>
<tr>
<td>Kensington® Lock</td>
<td>Yes</td>
</tr>
<tr>
<td>VESA® Mount (mm x mm)</td>
<td>Yes (100 X 100)</td>
</tr>
<tr>
<td>Bezel Color</td>
<td>Raven Black</td>
</tr>
<tr>
<td>Bezel Width</td>
<td>9.84” x 9.84”</td>
</tr>
<tr>
<td>Top (mm / inches)</td>
<td>2 / 0.08”</td>
</tr>
<tr>
<td>Sides (mm / inches)</td>
<td>2 / 0.08”</td>
</tr>
</tbody>
</table>

### DIMENSIONS (W x D x H)

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Packed (mm)</td>
<td>422 x 622 x 190</td>
</tr>
<tr>
<td></td>
<td>(inches) 16.61” x 24.48” x 7.48”</td>
</tr>
<tr>
<td>Size Unpacked with Stand</td>
<td>540.2 x 261.75 x 373.4</td>
</tr>
<tr>
<td>Lowest Position (mm)</td>
<td>21.26” x 10.3” x 14.7”</td>
</tr>
<tr>
<td></td>
<td>(inches)</td>
</tr>
<tr>
<td>Highest Position (mm)</td>
<td>540.2 x 261.75 x 483.4</td>
</tr>
<tr>
<td></td>
<td>21.26” x 10.3” x 19”</td>
</tr>
<tr>
<td>Size Unpacked without Stand (Monitor Head Only)</td>
<td>540.2 x 46.45 x 325.98</td>
</tr>
<tr>
<td></td>
<td>21.26” x 1.82” x 12.83”</td>
</tr>
<tr>
<td>Stand Base Footprint Area (mm)</td>
<td>250 x 250</td>
</tr>
<tr>
<td></td>
<td>9.84” x 9.84”</td>
</tr>
<tr>
<td>Weight Packaged</td>
<td>Starting at 16.39 lbs (7.54 kg)</td>
</tr>
<tr>
<td></td>
<td>Starting at 11.33 lbs (5.15 kg)</td>
</tr>
<tr>
<td>Unpacked</td>
<td>Monitor Head Only</td>
</tr>
<tr>
<td></td>
<td>Full Container Load</td>
</tr>
<tr>
<td></td>
<td>(40° STD / 20° STD)</td>
</tr>
<tr>
<td></td>
<td>1140 / 540 Units</td>
</tr>
</tbody>
</table>

### POWER CONSUMPTION

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical</td>
<td>16.5 W</td>
</tr>
<tr>
<td>Maximum</td>
<td>55 W</td>
</tr>
<tr>
<td>Sleep-Mode</td>
<td>&lt;0.5 W</td>
</tr>
<tr>
<td>Switch Off-Mode</td>
<td>&lt;0.3 W</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Internal</td>
</tr>
<tr>
<td>Power Voltage</td>
<td>90 VAC – 264 VAC</td>
</tr>
</tbody>
</table>

### WHAT’S IN THE BOX

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor with Stand</td>
<td>1 x Power Cable</td>
</tr>
<tr>
<td></td>
<td>1 x VGA Cable</td>
</tr>
<tr>
<td></td>
<td>1 x DisplayPort™ - DisplayPort™ Cable</td>
</tr>
<tr>
<td></td>
<td>1 x HDMI™ Cable (NA Only)</td>
</tr>
<tr>
<td></td>
<td>Quick Setup Guide</td>
</tr>
<tr>
<td></td>
<td>Monitor with Stand</td>
</tr>
</tbody>
</table>

### CERTIFICATIONS

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPEAT™</td>
<td>Gold</td>
</tr>
<tr>
<td>ENERGY STAR® Rating</td>
<td>71</td>
</tr>
<tr>
<td>TCO</td>
<td>7.0</td>
</tr>
<tr>
<td>TCO Edge</td>
<td>2.0</td>
</tr>
<tr>
<td>RoHS (EU 2002/95/EC)</td>
<td>Yes</td>
</tr>
<tr>
<td>China Energy Efficiency Standard</td>
<td>Tier 2</td>
</tr>
<tr>
<td>Windows Certification</td>
<td>Windows 7 / Windows 10</td>
</tr>
<tr>
<td>TÜV Eye Comfort Certification</td>
<td>Yes</td>
</tr>
</tbody>
</table>

---

1. Depending on many factors such as the processing capability of peripheral devices. File attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: - 5 Gbit/s for USB 3.1 Gen 1; 10 Gbit/s for USB 3.1 Gen 2 & 20 Gbit/s for USB 3.2.

Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo makes every effort to ensure accuracy of all information but is not liable or responsible for any editorial, photographic or typographic errors. All images are for illustration purposes only. For full Lenovo product, service and warranty specifications visit www.lenovo.com. Lenovo makes no representations or warranties regarding third party products or services.
## specifications

### display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Size</td>
<td>23.8” Wide</td>
</tr>
<tr>
<td>Panel Type</td>
<td>In-Plane-Switching</td>
</tr>
<tr>
<td>Backlight</td>
<td>WLED</td>
</tr>
<tr>
<td>Resolution</td>
<td>FHD (1920 x 1080)</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Anti-Glare</td>
<td>Yes</td>
</tr>
<tr>
<td>Near Edgeless Screen</td>
<td>Yes</td>
</tr>
<tr>
<td>Screen Dimensions (W x H) (mm)</td>
<td>527.04 x 296.46</td>
</tr>
<tr>
<td>Brightness</td>
<td>20.75” x 11.67”</td>
</tr>
<tr>
<td>Viewing Angle (H/V at CR 10:1)</td>
<td>250 nits</td>
</tr>
<tr>
<td>Contrast Ratio (Typical)</td>
<td>178°/178°</td>
</tr>
<tr>
<td>Dynamic Contrast Ratio</td>
<td>1000:1</td>
</tr>
<tr>
<td>Dynamic Contrast Ratio</td>
<td>3M:1</td>
</tr>
<tr>
<td>Speakers</td>
<td>2 x 2W</td>
</tr>
<tr>
<td>Pixel Pitch (mm)</td>
<td>0.2745 x 0.2745</td>
</tr>
<tr>
<td>Color Gamut (CIE 1931)</td>
<td>72% NTSC</td>
</tr>
<tr>
<td>Color Depth</td>
<td>8 bit</td>
</tr>
<tr>
<td>Color Support (Typical)</td>
<td>16.7 Million</td>
</tr>
<tr>
<td>Response Time (GIG)</td>
<td>4 ms / 6 ms</td>
</tr>
<tr>
<td>OSD Controls</td>
<td>5 English, French, German, Spanish, Italian, Japanese, Simplified Chinese, Russian</td>
</tr>
<tr>
<td>Buttons</td>
<td></td>
</tr>
<tr>
<td>Languages</td>
<td></td>
</tr>
</tbody>
</table>

### dimensions (W x D)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Packed (mm)</td>
<td>442 x 622 x 190</td>
</tr>
<tr>
<td>Size Unpacked with Stand (mm)</td>
<td>16.61” x 24.48” x 7.48”</td>
</tr>
<tr>
<td>Lowest Position (mm)</td>
<td>540.2 x 261.75 x 373.4</td>
</tr>
<tr>
<td>Lowest Position (inches)</td>
<td>21.26” x 10.3” x 14.7”</td>
</tr>
<tr>
<td>Highest Position (mm)</td>
<td>540.2 x 261.75 x 483.4</td>
</tr>
<tr>
<td>Highest Position (inches)</td>
<td>21.26” x 10.3” x 19”</td>
</tr>
<tr>
<td>Stand Base Footprint Area (mm)</td>
<td>250 x 250</td>
</tr>
<tr>
<td>Stand Base Footprint Area (inches)</td>
<td>9.84” x 9.84”</td>
</tr>
<tr>
<td>Weight</td>
<td>Starting at 16.39 lbs (7.45 kg)</td>
</tr>
<tr>
<td>Weight</td>
<td>Starting at 11.33 lbs (5.15 kg)</td>
</tr>
<tr>
<td>Weight</td>
<td>Starting at 7.26 lbs (3.3 kg)</td>
</tr>
<tr>
<td>Power Voltage</td>
<td>90 VAC - 264 VAC</td>
</tr>
<tr>
<td>ENERGY STAR® (P_{IN})</td>
<td>13.67 W</td>
</tr>
<tr>
<td>ENERGY STAR® (E_{TEC})</td>
<td>43.51 kWh</td>
</tr>
</tbody>
</table>

### connectivity

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Input Signals</td>
<td>VGA + HDMI™ + DisplayPort™</td>
</tr>
<tr>
<td>Video Cables Supplied</td>
<td>VGA, DisplayPort™, USB, Power, HDMI™ (for NA only)</td>
</tr>
<tr>
<td>USB Hub</td>
<td>USB 3.0 (4 x down, 1 x BC)</td>
</tr>
<tr>
<td>Audio Out</td>
<td>Yes (3.5 mm)</td>
</tr>
<tr>
<td>Power</td>
<td>Internal</td>
</tr>
</tbody>
</table>

### mechanical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilt Angle (Front / Back)</td>
<td>“5° / 30°”</td>
</tr>
<tr>
<td>Swivel Angle (Left / Right)</td>
<td>+/-45°</td>
</tr>
<tr>
<td>Lift Range (mm)</td>
<td>110</td>
</tr>
<tr>
<td>Pivot</td>
<td>+/-90°</td>
</tr>
<tr>
<td>Stand</td>
<td>LTPS</td>
</tr>
<tr>
<td>Cable Management</td>
<td>Yes</td>
</tr>
<tr>
<td>Kensington® Lock</td>
<td>Yes</td>
</tr>
<tr>
<td>VESA® Mount (mm x mm)</td>
<td>Yes (100 x 100)</td>
</tr>
<tr>
<td>Bezel Color</td>
<td>Raven Black</td>
</tr>
<tr>
<td>Bezel Width</td>
<td>2 / 0.08”</td>
</tr>
<tr>
<td>Top (mm / inches)</td>
<td>2 / 0.08”</td>
</tr>
<tr>
<td>Sides (mm / inches)</td>
<td></td>
</tr>
</tbody>
</table>

### power consumption

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical</td>
<td>16.5 W</td>
</tr>
<tr>
<td>Maximum</td>
<td>59 W</td>
</tr>
<tr>
<td>Sleep-Mode</td>
<td>&lt;0.5 W</td>
</tr>
<tr>
<td>Switch Off-Mode</td>
<td>&lt;0.3 W</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Internal</td>
</tr>
<tr>
<td>Power Voltage</td>
<td>90 VAC - 264 VAC</td>
</tr>
<tr>
<td>ENERGY STAR® (P_{IN})</td>
<td>13.67 W</td>
</tr>
<tr>
<td>ENERGY STAR® (E_{TEC})</td>
<td>43.51 kWh</td>
</tr>
</tbody>
</table>

### what’s in the box

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor with Stand</td>
<td>Monitor with Stand</td>
</tr>
<tr>
<td>1 x Power Cable</td>
<td>1 x Power Cable</td>
</tr>
<tr>
<td>1 x VGA Cable</td>
<td>1 x DisplayPort™ - DisplayPort™ Cable</td>
</tr>
<tr>
<td>1 x HDMI Cable (NA Only)</td>
<td>Quick Setup Guide</td>
</tr>
</tbody>
</table>

### certifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPEAT™</td>
<td>Gold</td>
</tr>
<tr>
<td>ENERGY STAR® Rating</td>
<td>7.1</td>
</tr>
<tr>
<td>TCO</td>
<td>7.0</td>
</tr>
<tr>
<td>TCO Edge</td>
<td>2.0</td>
</tr>
<tr>
<td>ULE</td>
<td>Yes</td>
</tr>
<tr>
<td>RoHS (EU 2002/95/EC)</td>
<td>Yes</td>
</tr>
<tr>
<td>China Energy Efficiency Standard</td>
<td>Tier 2</td>
</tr>
<tr>
<td>Windows Certification</td>
<td>Windows 7 / Windows 10</td>
</tr>
<tr>
<td>TGV Eye Comfort Certification</td>
<td>Yes</td>
</tr>
<tr>
<td>TINY Support</td>
<td>Yes</td>
</tr>
<tr>
<td>Soundbar Support*</td>
<td>Yes</td>
</tr>
<tr>
<td>Package</td>
<td>EPS Cushion</td>
</tr>
</tbody>
</table>

---

Optional.
**Lenovo ThinkVision T24m**

**Name**: T24m Wide Flat Panel Monitor

**Bezel color**: Black

**Type-model**: 61B8RA3US / 61B8RAT3EU

**Panel**: TFT-LCD, In-Plane Switching (IPS), White LED backlight

**Viewable image size**: 23.8” (604.7mm) diagonal

**Max view area (W x H)**: 20.75” x 11.67” (527.04mm x 296.46mm)

**Native resolution**: 1920x1080

**Aspect ratio**: 16:9

**Pixel pitch (mm)**: 0.2745 x 0.2745 mm

**Dot/Pixel per Inch**: 92 dpi

**Brightness**: 250 nits or cd/m2 (typical)

**Contrast ratio**: 1000:1 (typical)

**Pixel response time**: 6ms (typical)

**Color gamut**: 99% sRGB

**Viewing angle at 10:1 CR**

- Horizontal: 178° (+/- 89°)
- Vertical: 178° (+/- 89°)

**Stand**

- Tilt, swivel, pivot, and height adjustable stand
- Sides: 0.08” (2.0mm)

**Dimensions (HxWxD)**

- 19.03” H x 21.26” W x 5.24” D
- 483.4mm H x 540.2mm W x 133.1mm D

**Power supply**

- 17 watts typical
- 110 watts maximum (with USB 3.0 hub)
- <0.5 watts standby/suspend, universal

**Weight**: 12.34 lb; 5.6 kg

**Limited warranty**: 3 year (includes backlight)

**Available date**: August 2017

**VESA-compliant**: VESA DDC2B/C1

**Power management**: ENERGY STAR® qualified

**Ergonomics**: ISO 9241-307

**Emission standards**: FCC Class B

**Environmental**: TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating

**Preset resolutions**

- VGA: 640x480
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1600x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080, 1920x1200

**Presets display modes**

- HDMI: 19;
- DP: 11

**Viewing adjustments**

- Tilt: 30° back, -5° forward; lift: 4.3° (110mm)
- Swivel: +/-45°: detachable stand

**Rotating screen**

- Screen pivots 90 degrees from landscape to portrait

**On screen display**

- On screen display with digital user controls (8 languages)

**Control features**

- Direct access (buttons on front) for power, menu, input source select and brightness

**USB hub**

- USB 3.0 Hub: 1 port into PC (USB 3.0); 4 ports for accessories (4 USB 3.0)

**Multimedia**

- Audio-out, optional sound bar supported

**Multiple input**

- Support HDMI, DisplayPort, USB 3.1 Type-C

**Monitor connectors**

- (1) HDMI (1.4), digital, HDCP-compliant
- (2) DisplayPort (1.2), digital, HDCP-compliant
- (3) USB 3.1 Type-C

**Signal cables**

- (1) 1.8 meter USB Type-C to USB Type-C cable

**Mounting features**

- Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount

**Security**

- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**

- Monitor with stand, Safety and Warranty Information, 1.8 meter USB Type-C to USB Type-C cable, 1.8 meter black power cord

---

### Accessories

- Kensington MicroSaver Cable Lock: 73P2582
- Kensington Twin Head Cable Lock: 45K1620

---

**Limited Warranty**


---

**Features**

- Widescreen 23.8-inch monitor
- Supports 1920x1080 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Supports optional soundbar
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

---

**ThinkVision T24m Wide Flat Panel Monitor**
## Lenovo ThinkVision T24v

### Specifications

<table>
<thead>
<tr>
<th>Name</th>
<th>T24v Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61B6MAR6US / 61B6MAT6EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>23.8&quot; (604.5mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.75&quot; x 11.67&quot; (527.04mm x 296.46mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.2745 x 0.2745 mm</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>100:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>6ms (typical); 4ms (extreme mode)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>19.72&quot; H x 21.28&quot; W x 10.32&quot; D; 500.5mm H x 540.2mm W x 261.9mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>20 watts typical, 45 watts maximum (with USB 3.0 hub), &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>11.18 lb; 5.07 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>October 2017</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/Ci</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT® Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x480, 720x400</td>
</tr>
<tr>
<td></td>
<td>SVGA: 800x600, 832x624</td>
</tr>
<tr>
<td></td>
<td>XGA: 1024x768, 1152x864</td>
</tr>
<tr>
<td></td>
<td>SXGA: 1280x1024</td>
</tr>
<tr>
<td></td>
<td>WXGA+: 1440x900, 1600x900</td>
</tr>
<tr>
<td></td>
<td>WSXGA+: 1680x1050</td>
</tr>
<tr>
<td></td>
<td>Full HD: 1920x1080</td>
</tr>
<tr>
<td>Presets display modes</td>
<td>Presets: 24; user modes: 20</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 30° back, -5° forward; swivel: +/-45°; detachable stand</td>
</tr>
<tr>
<td>Rotating screen</td>
<td>Screen pivots 90 degrees from landscape to portrait</td>
</tr>
<tr>
<td>On screen display</td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td>Control features</td>
<td>Direct access for power, menu, input source select, volume up / down, speaker mute and microphone mute</td>
</tr>
<tr>
<td>USB hub</td>
<td>USB 3.0 Hub: 1 port into PC (USB 3.0); 2 ports for accessories (2 USB 3.0)</td>
</tr>
<tr>
<td>Multimedia</td>
<td>Integrated speakers, dual-array microphone, audio-in and Audio-out, optional sound bar supported</td>
</tr>
<tr>
<td>Camera</td>
<td>Integrated FHD camera with IR</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Support HDMI, DisplayPort, VGA</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue</td>
</tr>
<tr>
<td></td>
<td>(2) HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(3) DisplayPort, digital, black, HDCP-compliant</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
</tr>
<tr>
<td></td>
<td>(2) detachable, HDMI at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
<tr>
<td>Security</td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td>Ship group</td>
<td>Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter DP signal cable, 1.8 meter USB signal cable, 1.8 meter black power cord, 1.8 meter HDMI signal cable (Row)</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kensington MicroSaver Cable Lock</td>
<td>73P2582</td>
</tr>
<tr>
<td>Kensington Twin Head Cable Lock</td>
<td>45K1620</td>
</tr>
</tbody>
</table>

See details at www.lenovo.com/support/monitoraccessories

See all monitors at www.lenovo.com/thinkvision

Lenovo
October 2017
**Lenovo ThinkVision X24 Pro Wide**

**Name**
X24 Pro Wide Flat Panel Monitor

**Bezel color**
Black

**Type-model**
60E4ECR1US / 60E4ECT1US / 60E4ECT1EU

**Panel**
TFT-LCD, AH-IPS (In-Plane Switching), White LED backlight

**Viewable image size**
23.8" (604.5mm) diagonal

**Max view area (W x H)**
20.75" x 11.67" (527.0mm x 296.5mm)

**Native resolution**
1920x1080

**Aspect ratio**
16:9

**Pixel pitch (mm)**
0.2745 x 0.2745 mm

**Dot/Pixel per Inch**
92 dpi

**Brightness**
250 nits or cd/m² (typical)

**Contrast ratio**
1000:1 (typical)

**Pixel response time**
7ms (typical)

**Color gamut**
72%

**Viewing angle at 10:1 CR**
178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

**Stand**
Tilt stand

**Tilt**
Sides: 0.09” (2.3mm)

**Dimensions (HxWxD)**
17.61” H x 21.30” W x 9.39” D; 447.4mm H x 540.9mm W x 238.4mm D

**Power supply**
20 watts typical, 90 watts maximum,
<0.5 watts standby/suspend, universal, external power supply

**Weight**
9.26 lb; 4.20 kg

**Limited warranty**
1 year (includes backlight)

**Available date**
July 2016

**Power management**
ENERGY STAR® qualified

**Ergonomics**
ISO 9241-307

**Environmental**
FCC Class B

**TCO Displays 6.0, WEEE, RoHS, EPEAT® Silver rating**

**Preset resolutions**
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1600x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080

**Presets / user settings**
Standard presets: 16; user settings: 20

**Viewing adjustments**
Tilt: 22° back, -5° forward

**Rotating screen**
None

**On screen display**
On screen display with digital user controls

**Control features**
Direct access (buttons on side bezel) for dual input and brightness

**USB hub**
USB Hub: two USB 3.1 Type-C and one micro USB 3.0 ports

**Multimedia**
Integrated stereo speakers (3 watts x 2), built-in microphone

**Camera**
Intel RealSense 3D camera

**Multiple input**
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**
- (1) mDP, Mini DisplayPort, digital, HDCP-compliant
- (2) USB Type-C, digital

**Signal cables**
- (1) detachable, mDP to DP, digital, 2.0 meter
- (2) to mDP adapter
- (3) micro USB 3.0 cable

**Mounting features**
None

**Security**
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
Monitor with stand, Safety and Warranty Information, ThinkPad 90W Square tip power adapter, 2.0 meter Mini DisplayPort to DisplayPort signal cable (with DP to mDP adapter), Micro USB 3.0 cable (for using camera)

**Limited Warranty**

**Features**
- Widescreen 23.8-inch monitor
- Supports 1920x1080 resolution
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Silver certified
- Intel RealSense 3D camera
- Stereo speakers 3 watts x 2
- One cable docking through USB 3.1 Type C with power delivery
- Windows Hello certified
- Microsoft® Windows® 10 certified

**Accessories**
- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

Lenovo
July 2017
## Lenovo ThinkVision X24-20

**Name**
X24-20 Flat Panel Monitor

**Bezel color**
Raven black

**Type-model**
61BDGAR3US / 61BDGAT3EU

**Panel**
TFT-LCD, IPS (In-Plane Switching), White LED backlight

**Viewable image size**
23.8” (604.5mm) diagonal

**Max view area (W x H)**
20.75” x 11.67” (527.0mm x 296.5mm)

**Native resolution**
1920x1080

**Aspect ratio**
16:9

**Pixel pitch (mm)**
0.2745 x 0.2745 mm

**Dot/Pixel per Inch**
92 dpi

**Brightness**
250 nits or cd/m² (typical)

**Pixel response time**
6ms (typical)

**Color gamut**
72% (NTSC)

**Viewing angle at 10:1 CR**
178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

**Stand**
Tilt stand

**Bezel width**
Sides: 0.04” (1.1mm)

**Dimensions (HxWxD)**
12.85” H x 21.16” W x 8.66” D;
326.4mm H x 537.4mm W x 220mm D

**Power supply**
20 watts typical,
25 watts maximum,
<0.5 watts standby/suspend, universal,
external power supply

**Weight**
7.3 lb; 3.3 kg

**Limited warranty**
3 year (includes backlight)

**Available date**
December 2017

**Power management**
ENERGY STAR® qualified

**Ergonomics**
ISO 9241-307

**Emmission standards**
FCC Class B

**Environmental**
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE,
RoHS, EPEAT™ Silver rating

**Preset resolutions**
- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1600x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080

**Presets / user settings**
Standard presets: 18;
user settings: 0

**Viewing adjustments**
Tilt: 30° back, -5° forward

**Rotating screen**
None

**On screen display**
On screen display with digital user controls (8 languages)

**Control features**
Direct access (buttons on side bezel) for power, dual input and brightness

**USB hub**
None

**Multiple input**
Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)

**Monitor connectors**
(1) HDMI (1.4a), digital, 
HDCP-compliant
(2) DisplayPort, digital, black, 
HDCP-compliant

**Signal cables**
(1) detachable, HDMI at each end, digital, 1.8 meter

**Mounting features**
None

**Security**
Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
Monitor with stand, Safety and Warranty Information, 1.8 meter HDMI signal cable, 
1.8 meter black power cord

**Limited Warranty**

**Accessories**

<table>
<thead>
<tr>
<th>Kensington MicroSaver Cable Lock</th>
<th>73P2582</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kensington Twin Head Cable Lock</td>
<td>45K1620</td>
</tr>
</tbody>
</table>

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
**Lenovo ThinkVision P27h**

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Name</th>
<th>P27h Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61AFGAR1US / 61AFGAT1EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, IPS (In-Plane Switching), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>27&quot; (685.8mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>23.49&quot; x 13.21&quot; (596.7mm x 335.7mm)</td>
</tr>
<tr>
<td>Optimum resolution</td>
<td>2560x1440</td>
</tr>
<tr>
<td>Max pixel rate</td>
<td>300MHz</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.2331 x 0.2331mm</td>
</tr>
<tr>
<td>Dot/Pixel per inch</td>
<td>109 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>109 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>4ms (extreme) / 6ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>99% sRGB</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° horizontal, 178° vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.08&quot; (2mm)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>20.21&quot; H x 24.08&quot; W x 10.62&quot; D; (HWxWxD, including stand) 513mm H x 611.6mm W x 269.8mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>38 watts typical, 140 watts maximum (with USB), &lt;0.5 watts sleep/off; &lt;0.5 watts switch off integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>15.43 lb; 7.0kg (including stand)</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year</td>
</tr>
<tr>
<td>Available date</td>
<td>April 2017</td>
</tr>
</tbody>
</table>

**Features**

- 27-inch IPS LED backlit monitor
- Supports 2560x1440 resolution
- 5-Ports USB hub, support USB 3.0
- Supports optional soundbar
- Support ThinkCentre Tiny
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified

**Preset resolutions**

- VGA: 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1680x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080, 1920x1200
- QHD: 2560x1440

**Presets display modes**

- HDMI: 22; DP: 14

**Viewing adjustments**

- Tilt: 30° back, -5° forward; lift: 4.33° (110mm); swivel: +/-45°

**Rotating screen**

- Screen pivots 90 degrees from landscape to portrait

**Control features**

- Direct access (buttons on front) for power, menu, input source select and brightness

**USB hub**

- USB Hub: one USB 3.1 Type-C upstream port, four USB 3.0 Type-A downstream ports

**Multimedia**

- Audio-out, optional sound bar supported

**Camera**

- None

**Multiple input**

- Support HDMI, DisplayPort, USB 3.1 Type-C, DisplayPort-out

**Monitor connectors**

- (1) 2*HDMI (1.4), digital, HDCP-compliant
- (2) DisplayPort (1.2), digital, HDCP-compliant
- (3) DisplayPort-out, digital
- (4) USB 3.1 Type-C

**Signal cables**

- (1) USB 3.1 Type-C cable, 1.8 meter

**Mounting features**

- Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

**Security**

- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**

- Monitor, detachable stand, Quick start and safety poster, 1.8 meter USB 3.1 Type-C cable, 1.8 meter black power cord

**Limited Warranty**


**Accessories**

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Security Cable Lock 57Y4303

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

---

**ThinkVision P27h Monitor**
## Lenovo ThinkVision P27u Monitor

### Product Specifications Reference (PSREF)

**Name**
- **Case color**: Black
- **Type-model**: 61CBGAR1US / 61CBGAT1EU / 61CBGAR1EU / 61B0GAR1US / 61B0GAT1EU

**Panel**
- **Panel**: TFT-LCD, IPS (In-Plane Switching), White LED backlight

**Viewable image size**
- **27" (684.7mm) diagonal
- **Max view area (W x H)**: 23.49" x 13.21" (596.74mm x 335.66mm)

**Optimum resolution**
- **3840x2160
- **Max pixel rate**: 600MHz
- **Aspect ratio**: 16:9
- **Pixel pitch (mm)**: 0.155 x 0.155mm
- **Dot/Pixel per Inch**: 163 dpi
- **Brightness**: 350 nits or cd/m² (typical)
- **Contrast ratio**: 1000:1 (typical)
- **Pixel response time**: 6ms (typical)
- **Color gamut**: 1.457 sRGB
- **Viewing angle at 10:1 CR**: 178° horizontal, 178° vertical

**Stand**
- **Tilt, swivel, pivot, and height adjustable stand**
- **Bezel width**: Sides: 0.06" (2mm)
- **Dimensions**: 20.21" H x 24.08" W x 10.62" D; (h x W x D, including stand) 513.3mm H x 611.6mm W x 269.8mm D

**Power supply**
- **50 watts typical, 160 watts maximum (with USB), <0.5 watts sleep/off; <0.3 watts switch off integrated (no external brick-like power supply)"

**Weight**
- **15.32 lb; 6.95kg (including stand)
- **Limited warranty**: 3 year
- **Available date**: August 2017

**VESA-compliant**
- VESA DDC2B/CI

**Power management**
- ENERGY STAR® 7.0

**Ergonomics**
- ISO 9241-307

**Emission standards**
- FCC Class B

**Environmental**
- TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating, ULE Gold

**Preset resolutions**
- VGA: 640x480, 720x400, 720x480, 720x576
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x720, 1280x800, 1280x1024
- WXGA+: 1440x900, 1600x900
- WXGA+: 1680x1050
- Full HD: 1920x1080, 1920x1200
- QHD: 2560x1440
- UHD: 3840x2160

**Presets / user settings**
- Standard presets: 27;
- user settings: 20

**Viewing adjustments**
- Tilt: 30° back, -5° forward; Lift: 4.33" (110mm); Swivel: +/-45°

**Rotating screen**
- Screen pivots 90 degrees from landscape to portrait

**On screen display**
- On screen display with digital user controls (8 languages)

**Control features**
- Direct access (buttons on front) for power, menu, input source select and brightness

**USB hub**
- USB Hub: one USB 3.1 Type-C port, four USB 3.0 Type-A downstream ports

**Multimedia**
- Audio-out, optional sound bar supported

**Camera**
- None

**Multiple input**
- Support HDMI, DisplayPort, USB 3.1 Type-C

**Monitor connectors**
- (1) 2*HDMI (2.0), digital, HDCP-compliant
- (2) DisplayPort (1.2), digital, HDCP-compliant
- (3) USB 3.1 Type-C

**Signal cables**
- (1) detachable, DisplayPort to DisplayPort, digital, 1.8 meter

**Mounting features**
- Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)

**Security**
- Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

**Ship group**
- Monitor, detachable stand, Quick start and safety poster, 1.8 meter USB Type-C to USB Type-C cable, 1.8 meter DP to DP cable, 1.8 meter HDMI to HDMI cable (NA only), 1.8 meter black power cord, 1.8 meter USB Type-C to USB Type-A cable

### Limited Warranty


### Accessories

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Security Cable Lock 57Y4303

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
## Specifications

### Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Size</td>
<td>32&quot;</td>
</tr>
<tr>
<td>Panel Type</td>
<td>In-Plane Switching</td>
</tr>
<tr>
<td>Backlight</td>
<td>WLED</td>
</tr>
<tr>
<td>Resolution</td>
<td>3840 x 2160</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Area (W x H)</td>
<td>Yes</td>
</tr>
<tr>
<td>Screen Dimensions (W x H3) (mm)</td>
<td>708.48 (H) x 398.52 (V)</td>
</tr>
<tr>
<td>Maximum Brightness (Typical)</td>
<td>300 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle (H/V at CR 10:1)</td>
<td>178°/178°</td>
</tr>
<tr>
<td>Contrast Ratio (Typical)</td>
<td>1000:1</td>
</tr>
<tr>
<td>Dynamic Contrast Ratio</td>
<td>3M:1</td>
</tr>
<tr>
<td>Pixel Pitch (W x H) (mm)</td>
<td>0.1845 (H) x 0.1845 (V)</td>
</tr>
<tr>
<td>Dot/Pixel Per Inch (DP/PPI)</td>
<td>137</td>
</tr>
<tr>
<td>Color Gamut (1931)</td>
<td>99.5% AdobeRGB</td>
</tr>
<tr>
<td>Response Time (Typical)</td>
<td>6 ms</td>
</tr>
</tbody>
</table>

### Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>0°C - 40°C</td>
</tr>
<tr>
<td>Non-Operating</td>
<td>-20°C - 60°C</td>
</tr>
<tr>
<td>Humidity</td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>8% - 80%</td>
</tr>
<tr>
<td>Non-Operating</td>
<td>5% - 95%</td>
</tr>
<tr>
<td>Altitude</td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>0 ft - 5000 ft</td>
</tr>
<tr>
<td>Non-Operating</td>
<td>0 ft - 40,000 ft</td>
</tr>
<tr>
<td>Arsenic-Free Glass</td>
<td>Yes</td>
</tr>
<tr>
<td>PVC-Free</td>
<td>Yes</td>
</tr>
<tr>
<td>Mercury-Free</td>
<td>Yes</td>
</tr>
<tr>
<td>PCC % of Plastic Resins</td>
<td>85% with &gt;25g Plastic Parts</td>
</tr>
</tbody>
</table>

### Power Consumption

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical</td>
<td>70 W</td>
</tr>
<tr>
<td>Maximum</td>
<td>200 W</td>
</tr>
<tr>
<td>Sleep-Mode</td>
<td>≤0.5 W</td>
</tr>
<tr>
<td>Switch-Off-Mode</td>
<td>≤0.5 W</td>
</tr>
<tr>
<td>Power Supply</td>
<td>External</td>
</tr>
<tr>
<td>Power Voltage</td>
<td>90 VAC – 264 VAC</td>
</tr>
<tr>
<td>Voltage Dynamic Frequency</td>
<td>47 Hz – 63 Hz</td>
</tr>
</tbody>
</table>

### Signal Input

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Input Signals</td>
<td>2 x HDMI™ 2.0 + DisplayPort™</td>
</tr>
<tr>
<td></td>
<td>1.2 x Thunderbolt™ 3.0-In +</td>
</tr>
<tr>
<td></td>
<td>Thunderbolt™ 3.0-Out</td>
</tr>
<tr>
<td>Video Cables Supplied</td>
<td>HDMI™, DisplayPort™,</td>
</tr>
<tr>
<td></td>
<td>Thunderbolt™ 3.0</td>
</tr>
<tr>
<td>Video Cable Length</td>
<td>2 m for Thunderbolt™, 1.8 m for</td>
</tr>
<tr>
<td></td>
<td>HDMI™ and DisplayPort™</td>
</tr>
<tr>
<td>USB Hub</td>
<td>Yes (4 x Downstream, 1 x BC)</td>
</tr>
<tr>
<td>USB Cable Supplied</td>
<td>Yes (USB Type-A to Type-B)</td>
</tr>
<tr>
<td>Audio-Out</td>
<td>Yes (3.5 mm)</td>
</tr>
</tbody>
</table>

### Signal Interface / Performance

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Resolution</td>
<td>30 kHz – 160 kHz</td>
</tr>
<tr>
<td>Vertical Frequency</td>
<td>23 Hz – 80 Hz</td>
</tr>
<tr>
<td>Native Resolution</td>
<td>3840 x 2160</td>
</tr>
<tr>
<td>Maximum Pixel Clock Speed / Bandwidth</td>
<td>HDMI™, DisplayPort™,</td>
</tr>
<tr>
<td></td>
<td>600 kHz</td>
</tr>
<tr>
<td></td>
<td>DisplayPort™, 5.4 GHz</td>
</tr>
<tr>
<td></td>
<td>Thunderbolt™: 10 Gbps</td>
</tr>
<tr>
<td>Preset / User</td>
<td>28 / 20</td>
</tr>
<tr>
<td>OSD Buttons</td>
<td>5 Buttons</td>
</tr>
<tr>
<td>OSD Languages</td>
<td>English, French, German, Spanish, Italian, Japanese, Simplified Chinese, Russian</td>
</tr>
</tbody>
</table>

### Mechanical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilt Angle (Front / Back)</td>
<td>-5° / 22°</td>
</tr>
<tr>
<td>Swivel Angle (Left / Right)</td>
<td>45° / 45°</td>
</tr>
<tr>
<td>Lift (mm)</td>
<td>110</td>
</tr>
<tr>
<td>(CW / CCW)</td>
<td>90° / 90°</td>
</tr>
<tr>
<td>VESA® Mount (mm)</td>
<td>100 x 100</td>
</tr>
<tr>
<td>Kensington® Lock Slot</td>
<td>Yes</td>
</tr>
<tr>
<td>Cable Management</td>
<td>Yes</td>
</tr>
<tr>
<td>Bezel Color</td>
<td>Raven Black</td>
</tr>
<tr>
<td>Bezel Width</td>
<td>Top (mm / inches)</td>
</tr>
<tr>
<td></td>
<td>2 / 0.08&quot;</td>
</tr>
<tr>
<td></td>
<td>Bottom (mm / inches)</td>
</tr>
<tr>
<td></td>
<td>23.8 / 0.94&quot;</td>
</tr>
<tr>
<td></td>
<td>Sides (mm / inches)</td>
</tr>
<tr>
<td></td>
<td>2 / 0.08&quot;</td>
</tr>
</tbody>
</table>

### Compliance

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPEAT™</td>
<td>Gold</td>
</tr>
<tr>
<td>ENERGY STAR® Rating</td>
<td>7.0</td>
</tr>
<tr>
<td>TCO</td>
<td>TCO 7.0 / TCO Edge 2.0</td>
</tr>
<tr>
<td>Windows Certification</td>
<td>Windows 7 / Windows 10</td>
</tr>
<tr>
<td>China Energy Efficiency Standard</td>
<td></td>
</tr>
<tr>
<td>Warranty</td>
<td>3 Years</td>
</tr>
<tr>
<td>Geography Availability</td>
<td>WW</td>
</tr>
</tbody>
</table>

Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo makes every effort to ensure accuracy of all information but is not liable or responsible for any editorial, photographic or typographic errors. All images are for illustration purposes only. For full Lenovo product, service and warranty specifications, visit www.lenovo.com. Lenovo makes no representations or warranties regarding third-party products or services. All product names are trademarks or registered trademarks of their respective companies. Copyright ©2017 Lenovo. All rights reserved.
## Specifications

### Curvature
- **1800R**

### Panel Size
- **43.4 inches**

### Aspect Ratio
- **32:10**

### Display Dimensions
- **5.40 x 14.21 x 41.67 inches**
- **269.8 x 461.1 x 1058.3mm**

### Screen Dimensions
- **10.62 x 18.15 x 41.67 inches**

### Weight
- **9.35kg/20.61lbs.**
- **18.59kg/40.98lbs.**

### Panel Type
- **VA NearEdgeless, 1052.3 x 328.8mm**
- **1800R**
- **anti-glare**

### Panel Technology
- **WLED**

### Backlight
- **3M:1**
- **3000:1**
- **3840 x 1200 pixels**
- **3840 x 1200 pixels resolution combined with VESA Certified DisplayHDR™ 400**

### Contrast Ratio
- **Max. 144Hz**
- **4/6ms (extreme/typical)**

### Viewing Angles
- **144Hz refresh rate**
- **FULL HD**
- **380 nits (typical)**
- **450 nits (peak)**

### Color Support
- **3M:1**
- **3000:1**
- **3840 x 1200 pixels**
- **3840 x 1200 pixels resolution combined with VESA Certified DisplayHDR™ 400**

### Color Gamut
- **100% sRGB**

### Color Spaces
- **Pre-calibrated color picture clarity offers crisp visuals.**

### Resolution
- **3840 x 1200**
- **32:10**

### Display Modes
- **thinkcolor**
- **ThinkColor**
- **ThinkColor Software**

### Software
- **ThinkColor**

### Input Signals
- **Video Input Signals**
- **Video Cable Length**

### Connectivity
- **2 x HDMI 2.0**
- **1 x DP1.4**
- **1 x USB Type-C Gen1 (DP1.2 Alt Mode)**
- **1 x USB Type-C Gen2 (DP1.4 Alt Mode)**

### Audio Out
- **Yes (3.5mm)**

### Tilt Angle
- **±30°**

### Lift, Tilt, Swivel Functionality
- **Yes (100 x 100mm)**
- **VESA Mount Capability**
- **±30°**
- **VESA Mount Compatibility**
- **±30°**

### Weight Unpacked
- **18.59kg/40.98lbs.**

### Weight with Stand (Lowest Position)
- **47.99 x 19.68 x 14.80 inches**

### Weight with Stand (Highest Position)
- **10.62 x 18.15 x 41.67 inches**

### Power Consumption
- **Sleep/Off Mode: <0.5W**
- **Switch-off Mode: <0.5W**

### Special Features
- **Kardon certified speaker**
- **Yes (ThinkColor)**
- **Yes (ThinkColor Software)**
- **Yes (Picture-by-picture)**

### Acoustic Emissions
- **<5.5Bela**

### Windows Certification
- **Yes**

### Energy STAR® Rating
- **ENERGY STAR® Rating**
- **CERTIFICATIONS**
- **Windows 10 Pro for Workstations**
- **Windows Mixed Reality Headset Ready**
- **Windows Mixed Reality Compatible**

### Internal Power Supply
- **4 x USB 3.1 Gen1 (1 BC)**
- **1 x USB Type-C Gen2 (DP1.4 Alt Mode)**
- **1 x USB Type-C Gen1**

### USB Ports
- **1 x USB Type-C Gen1**
- **1 x USB Type-C Gen2 (DP1.4 Alt Mode)**
- **1 x USB Type-C Gen1**

### OSD Memory
- **15 MB**

### TÜV Certification
- **TÜV Eye Comfort Certification**
- **No Flicker**

### RoHS
- **RoHS**
- **CCC**

### TCO
- **TCO**
- **ULE**
- **Yes**

### U.S. Environmental Protection Agency (EPA)
- **Energy Star® Rating**

### Total Recommendable Weight
- **9.35kg/20.61lbs.**

### Cable Management
- **Yes**

### Quick Setup Guide
- **Quick setup guide**

### Stand Included
- **Yes**

### Monitor with Stand
- **Yes**

### 1 x USB Type-C to Type-A cable
- **1 x USB Type-C Gen2 cable**
- **1 x DP cable**
- **1 x HDMI cable**
- **1 x Power cable**

### Warranty
- **For a copy of applicable warranties, write to: Warranty**
- **Warranty**

### Energy Efficiency Standards
- **China Energy Efficiency Standard**
- **Tier 2**
- **Ambient Operating Temperature**
- **0°C to 45°C**
- **TÜV Eye Comfort**
- **Yes**
## ThinkVision® T27i-10

### DISPLAY
- **Panel Size:** 27 inch
- **Screen Dimensions (H x V) (mm):** 597.89 (H) × 336.31 (V)
- **Panel Type:** In-Plane Switching
- **Backlight:** WLED
- **Resolution:** 1920 x 1080
- **Panel Type:** In-Plane Switching
- **Aspect Ratio:** 16:9
- **Pixel Pitch (H x V) (mm):** 0.3110 × 0.3110
- **Viewing angle (H x V):** 178°/ 178°
- **Response Time (gray to gray):** 4 ms (extreme mode)
- **6 ms (normal mode)
- **Contrast Ratio (typical):** 1000:1
- **Dynamic Contrast Ratio (typical):** 3M:1
- **Color Gamut NTSC (CIE 1931):** 72%
- **Color Support:** 16.7M
- **USB Hub:** Yes
  - 1 x USB 3.0 (Upstream)
  - 4 x USB 3.0 (Downstream, incl. 1BC)
- **Cable Length:** 1.8 m
- **Audio Out:** Yes (3.5 mm)
- **Power Consumption:** 22W (Typical) / 58W (max) at On mode; <0.5W at Sleep mode; <0.3W at Switch off mode

### SPECIAL FEATURES
- **Anti-Glare:** Yes
- **Thin Client Support (Tiny):** Yes
  - (by Tiny Clamp Bracket Kit+VESA mount PN:4XF0N82412+ PN:4XF0N03161)

### MECHANICAL
- **Tilt Angle (front/back):** -5°/30°
- **Swivel Angle (left/right):** -45°/+45°
- **Lift (Max range):** 110 mm
- **Pivot:** -90°/90°
- **VESA Mount:** Yes (100 mm)
- **Kensington™ Lock Slot:** Yes
- **Cable Management:** Yes
- **Bezel Color:** Raven Black
- **Bezel Width (Side):** 2.0 mm

### CONNECTIVITY
- **Video Input Signals:** VGA + HDMI 1.4 + DP 1.2
- **USB Hub:** Yes
  - 1 x USB 3.0 (Upstream)
  - 4 x USB 3.0 (Downstream, incl. 1BC)
- **Audio Out:** Yes (3.5 mm)
- **Power Consumption:** 22W (Typical) / 58W (max) at On mode; <0.5W at Sleep mode; <0.3W at Switch off mode

### MULTI-MEDIA
- **Optional Soundbar Support:** Yes

### DIMENSIONS
- **Size Packed (D x H x W) (mm/inch):** 187 x 455 x 715 mm / 7.362 x 17.913 x 28.15 inch
- **Size Unpacked w/stand (D x H x W) (mm/inch):** (Lowest Position)
  - 269.8 x 403.3 x 611.9 mm / 10.62 x 15.88 x 24.09 inch
  - (Highest Position)
  - 269.8 x 513.3 x 611.9 mm / 10.62 x 20.21 x 24.09 inch
- **Size Unpacked w/o stand (D x H x W) (mm/inch):** (Head Only)
  - 49.9 x 366.5 x 611.9 mm / 1.96 x 14.43 x 24.09 inch
- **Weight Packed (kg/lbs.):** 9.32kg / 20.55 lbs.
- **Weight Unpacked (kg/lbs.):** 6.55kg / 14.44 lbs.
- **Weight (Monitor Head Only) (kg/lbs.):** 4.60kg / 10.14 lbs.

### WHAT’S IN THE BOX
- Monitor with stand
- 1 x Power cable
- 1 x DP-DP cable
- 1 x HDMI cable (NA only)
- 1 x USB 3.0 cable
- Quick setup guide

### CERTIFICATIONS
- **ENERGY STAR Rating:** 7.0
- **CCC:** Yes
- **TCO:** 7.0
- **EPEAT™:** Gold
- **ULE:** Gold
- **Windows Certification:** Windows 7, Windows 10
- **China Energy Efficiency Standard:** Tier 2
- **Ambient Operating Temperature:** 0°C to 40°C
- **Eye Comfort Certification:** Yes
### DISPLAY

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Size</td>
<td>27.0 inches</td>
</tr>
<tr>
<td>Screen Dimensions (H x V)</td>
<td>596.74 x 335.66mm</td>
</tr>
<tr>
<td>Panel Type</td>
<td>In-Plane Switching</td>
</tr>
<tr>
<td>Backlight</td>
<td>WLED</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Resolution</td>
<td>3840 x 2160 pixels</td>
</tr>
<tr>
<td>Pixel Pitch (H x V)</td>
<td>0.1554 x 0.1554mm</td>
</tr>
<tr>
<td>Viewing Angle (H x V)</td>
<td>178°/178°</td>
</tr>
<tr>
<td>Response Time (gray to gray)</td>
<td>4ms (extreme mode)</td>
</tr>
<tr>
<td></td>
<td>6ms (normal mode)</td>
</tr>
<tr>
<td>Refresh Rate</td>
<td>60Hz</td>
</tr>
<tr>
<td>Contrast Ratio (typical)</td>
<td>1000:1</td>
</tr>
<tr>
<td>Dynamic Contrast Ratio (typical)</td>
<td>3M:1</td>
</tr>
<tr>
<td>Brightness (typical)</td>
<td>350 cd/m²</td>
</tr>
<tr>
<td>Color Gamut sRGB (CIE 1931)</td>
<td>99%</td>
</tr>
<tr>
<td>Color Support</td>
<td>1.07 Billion</td>
</tr>
</tbody>
</table>

### POWER

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption (Typical/Max)</td>
<td>50W/140W</td>
</tr>
<tr>
<td>Power Consumption Sleep/Off Mode</td>
<td>&lt;0.5W</td>
</tr>
<tr>
<td>Power Consumption Switch Off-Mode</td>
<td>&lt;0.3W</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Internal</td>
</tr>
<tr>
<td>ENERGY STAR® (Pₚₚ)</td>
<td>23.40W</td>
</tr>
<tr>
<td>ENERGY STAR® (Eₚₚ)</td>
<td>101.94kWh</td>
</tr>
<tr>
<td>Voltage Required</td>
<td>100-240VAC (50/60Hz)</td>
</tr>
</tbody>
</table>

### CONNECTIVITY

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Input Signals</td>
<td>HDMI 2.0 + DP 1.2 + USB 3.1 Type-C™ (DP 1.2 Alt Mode)</td>
</tr>
<tr>
<td>Video Cables Supplied</td>
<td>USB 3.1 Type-C™ + HDMI</td>
</tr>
<tr>
<td>Video Cable Length</td>
<td>1.8m</td>
</tr>
<tr>
<td>USB Hub</td>
<td>Yes</td>
</tr>
<tr>
<td>USB Upstream</td>
<td>Yes</td>
</tr>
<tr>
<td>USB Downstream</td>
<td>4 x USB 3.1 Gen1 (with 1 BC)</td>
</tr>
</tbody>
</table>

### MECHANICAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Out</td>
<td>Yes (3.5mm)</td>
</tr>
<tr>
<td>Tilt Angle (front/back)</td>
<td>-5° to 30°</td>
</tr>
<tr>
<td>Swivel Angle (left/right)</td>
<td>+/- 45°</td>
</tr>
<tr>
<td>Lift</td>
<td>Yes (110mm)</td>
</tr>
<tr>
<td>Pivot</td>
<td>+/- 90°</td>
</tr>
<tr>
<td>VESA Mount Capability</td>
<td>Yes (100 x 100mm)</td>
</tr>
<tr>
<td>Kensington™ Lock Slot</td>
<td>Yes</td>
</tr>
<tr>
<td>Bezel Width (Side)</td>
<td>2.0mm</td>
</tr>
<tr>
<td>Bezel Width (top/bottom)</td>
<td>2.0/24.5mm</td>
</tr>
</tbody>
</table>

### SPECIAL FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart Power*</td>
<td>Yes</td>
</tr>
<tr>
<td>Anti-glare</td>
<td>Yes</td>
</tr>
<tr>
<td>ThinkCentre Tiny Support</td>
<td>Yes</td>
</tr>
<tr>
<td>Optional Soundbar Support</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### WHAT’S IN THE BOX

- Monitor with stand
- 1 x Power Cable
- 1 x HDMI Cable
- 1 x USB Type-C™ to Type-C™ cable Quick Setup Guide

### CERTIFICATIONS

- ENERGY STAR® Rating: 7.1
- EU RoHS: Yes
- CCC: Yes
- Windows Certification: Windows 7, Windows 10
- China Energy Efficiency Standard: Tier 2
- TÜV Eye Comfort: Yes
- TCO: TCO 8.0/TCO Edge 2.0
- ULE: Gold

### Notes

1. The Smart Power function intelligently detects overall power consumption and dynamically manages the power delivery to each device. 75W power delivery can be achieved when downstream USB ports are not connected and OSD brightness setting is <61.

2. Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: - 5 Gbit/s for USB 3.1 Gen1; 10 Gbit/s for USB 3.1 Gen2 & 20 Gbit/s for USB 3.2.

3. © 2019 Lenovo. All rights reserved. These products are available while supplies last. Prices shown are subject to change without notice. For any questions concerning price, please contact your Lenovo Account Executive. Lenovo is not responsible for photographic or typographic errors. Warranty: For a copy of applicable warranties, write to: Warranty Information, 500 Park Offices Drive, RTP, NC 27709, Attn: Dept. ZPYA/B600. Lenovo makes no representation or warranty regarding third-party products or services. Trademarks: Lenovo, the Lenovo logo, Rescue and Recovery, ThinkPad, ThinkCentre, ThinkStation, ThinkVantage, and ThinkVision are trademarks or registered trademarks of Lenovo. Microsoft, Windows, and Vista are registered trademarks of Microsoft Corporation. Intel, the Intel logo, Intel Inside, Intel Core, and Core Inside are trademarks of Intel Corporation in the U.S. and/or other countries. Other company, product, and service names may be trademarks or service marks of others.

Specifications may vary depending upon region.
## Lenovo ThinkVision X1

**Features**
- 27-inch IPS LED backlit monitor with speaker
- Supports 3840x2160 resolution
- 5-Ports USB hub, support USB Type-C
- 3watts x 2 stereo speakers
- Microsoft® Windows® 7 certified
- Microsoft® Windows® 10 certified

### Specifications

<table>
<thead>
<tr>
<th>Name</th>
<th>X1 Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60E2GAR1US / 60E2GAT1US / 60E2GAT1EU</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, IPS (In-Plane Switching), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>27&quot; (684.7mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>23.49&quot; x 13.21&quot; (596.7mm x 335.7mm)</td>
</tr>
<tr>
<td>Optimum resolution</td>
<td>3840x2160</td>
</tr>
<tr>
<td>Max pixel rate</td>
<td>600MHz</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.16 x 0.16mm</td>
</tr>
<tr>
<td>Dot/Pixel per Inch</td>
<td>163 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>300 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1300:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>6ms</td>
</tr>
<tr>
<td>Color gamut</td>
<td>99%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>178° horizontal, 178° vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.088&quot; (2.23mm)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>(HxWxD, including stand) 491.4mm H x 614.5mm W x 270.0mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>40 watts typical, 130 watts maximum (with USB), &lt;0.5 watts sleep/off, &lt;0.5 watts switch off</td>
</tr>
<tr>
<td>Weight</td>
<td>14.11 lb; 6.40kg (including stand)</td>
</tr>
<tr>
<td>Limited warranty a</td>
<td>3 year</td>
</tr>
<tr>
<td>Available date</td>
<td>March 2016</td>
</tr>
</tbody>
</table>

### Preset resolutions

- **VGA:** 640x480, 720x400
- **SVGA:** 800x600
- **XGA:** 1024x768, 1152x864
- **SXGA:** 1280x1024
- **WXGA:** 1280x720, 1280x768, 1280x800, 1360x768
- **WXGA+**: 1440x900, 1600x900
- **WSXGA+**: 1680x1050
- **Full HD**: 1920x1080, 1920x1200
- **UHD**: 3840x2160

### Presets / user settings

- Standard presets: 20; user settings: 20

### Viewing adjustments

- **Rotating screen:** Tilt: 22° back, -5° forward;
- **On screen display:** None
- **Control features:** Direct access (touch buttons on front) for menu, mute, volume up/down, and brightness
- **USB hub:** USB Hub: one USB 3.1 Type-C upstream port, four USB 3.0 Type-A downstream ports
- **Multimedia:** Integrated stereo speakers (3 watts x 2), built-in microphone
- **Camera:** Full HD camera with LED light
- **Multiple input:** Support HDMI, DisplayPort
- **Monitor connectors:** (1) HDMI (1.4), digital, HDCP-compliant
- **Signal cables:** (1) detachable, HDMI at each end, digital, 1.8 meter
- **Mounting features:** Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
- **Security:** Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

### Ship group

- Monitor, detachable stand, Quick start and safety poster, 1.8 meter DisplayPort cable, 1.8 meter HDMI cable, 1.8 meter USB Type-C cable, 1.8 meter USB Type-C to Type-A cable, 1.8 meter black power cord, mini DP to DP adapter, power adapter (135W)

### Limited Warranty


### Accessories

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Security Cable Lock 57Y4303

See details at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)

---

© Lenovo

(X1) March 2016
THE MILESTONE OF X-SERIES, 27” FULL-SCREEN, 4K, THUNDERBOLT™ 3 MONITOR.

Pushing the limit of screen share ratio with innovative technology, the 27” Lenovo™ ThinkVision® X1 (2nd GEN) display brings full-screen and ultra-slim appearance in elegant design. With 4K resolution and >99% sRGB color gamut, you will be assured of excellent watching experience and Thunderbolt™ 3 interface will bring the best user experience. "Motor" camera is first used on monitor, which will move up and down automatically and with it you will own standard VoIP system.

WHY YOU SHOULD BUY THE LENOVO THINKVISION X1 (2nd GEN) MONITOR

**Full-screen appearance**

With world’s slimmest (4.7 mm) 27” 4K TBT monitor you will experience full-screen 4-side Near-Edgeless display with the screen ratio of approximately 93%. The monitor also comes with a metal stand and a base.

**Brilliant performance**

The 4K UHD IPS screen displays 3840 x 2160 resolution at 60 Hz, 99% sRGB color gamut, 10-bit depth, with 1.07 billion color support assures you stunning visuals and superb color experience.

**Convenient user experience**

Total versatility with Thunderbolt™ 3 interface supporting 4K + USB 3.0 & 45W PD + motor-camera with dual-array microphone. A Think RedDot tracking button is integrated in the back cover.

THE LENOVO THINKVISION X1 (2nd GEN) MONITOR IS BEST SUITED FOR

1. The Executives and CXO of company.
2. SOHO and Gold Collars with high income.
3. Trendsetters who pursue an extreme and forefront monitor.
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>DISPLAY</th>
<th>ENVIRONMENTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Size</td>
<td>Temperature</td>
</tr>
<tr>
<td>Panel Type</td>
<td>Operating</td>
</tr>
<tr>
<td>Brightness</td>
<td>0°C - 45°C</td>
</tr>
<tr>
<td>Resolution</td>
<td>Non-Operating</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>-20°C - 60°C</td>
</tr>
<tr>
<td>Anti-Glare</td>
<td>Humidity</td>
</tr>
<tr>
<td>Screen Dimensions (W x H) (mm)</td>
<td>Operating</td>
</tr>
<tr>
<td>Maximum Brightness (Typical)</td>
<td>8% - 80%</td>
</tr>
<tr>
<td>Viewing Angle (H/V at CR 10:1)</td>
<td>Non-Operating</td>
</tr>
<tr>
<td>Contrast Ratio (Typical)</td>
<td>5% - 95%</td>
</tr>
<tr>
<td>Dynamic Contrast Ratio</td>
<td>Altitude</td>
</tr>
<tr>
<td>Pixel Pitch (W x H) (mm)</td>
<td>Operating</td>
</tr>
<tr>
<td>Dot/Pixel Per Inch (DP/PPi)</td>
<td>16,000 ft</td>
</tr>
<tr>
<td>Color Gamut (CIE 1931)</td>
<td>Non-Operating</td>
</tr>
<tr>
<td>Response Time (Extreme/Typical/Off)</td>
<td>40,000 ft</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POWER CONSUMPTION</th>
<th>DIMENSIONS (W x D x H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical</td>
<td>Size Packed</td>
</tr>
<tr>
<td>Maximum</td>
<td>(mm)</td>
</tr>
<tr>
<td>Sleep-Mode</td>
<td>(mm)</td>
</tr>
<tr>
<td>Switch Off-Mode</td>
<td>(mm)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Size Unpacked with Stand</td>
</tr>
<tr>
<td>Voltage Dynamic Frequency</td>
<td>(mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SIGNAL INPUT</th>
<th>SIGNAL INTERFACE / PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Input Signals</td>
<td>Horizontal Frequency</td>
</tr>
<tr>
<td>Video Cables Supplied</td>
<td>Vertical Frequency</td>
</tr>
<tr>
<td>Video Cable Length</td>
<td>Native Resolution</td>
</tr>
<tr>
<td>USB Hub</td>
<td>Maximum Pixel Clock Speed/Bandwidth</td>
</tr>
<tr>
<td>USB Cable Supplied</td>
<td>Default Color Temperature</td>
</tr>
<tr>
<td>Audio-Jack</td>
<td>Preset Modes</td>
</tr>
<tr>
<td>OSD Buttons</td>
<td>Stand Base Footprint Area</td>
</tr>
<tr>
<td>OSD Languages</td>
<td>(mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MECHANICAL</th>
<th>COMPLIANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilt Angle (Front / Back)</td>
<td>EPEAT™</td>
</tr>
<tr>
<td>Swivel Angle (Left / Right)</td>
<td>ENERGY STAR® Rating</td>
</tr>
<tr>
<td>Lift (mm)</td>
<td>7.0</td>
</tr>
<tr>
<td>Pivot</td>
<td>ULE</td>
</tr>
<tr>
<td>VESA® Mount (mm)</td>
<td>Silver</td>
</tr>
<tr>
<td>Kensington® Lock Slot</td>
<td>TCO®</td>
</tr>
<tr>
<td>Cable Management</td>
<td>7.0</td>
</tr>
<tr>
<td>Bezel Color</td>
<td>RoHS</td>
</tr>
<tr>
<td>Bezel Width</td>
<td>Yes</td>
</tr>
<tr>
<td>Top (mm / inches)</td>
<td>Windows Certification</td>
</tr>
<tr>
<td>Bottom (mm / inches)</td>
<td>Windows 10</td>
</tr>
<tr>
<td>Sides (mm / inches)</td>
<td>China Energy Label</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WARRANTY AND AVAILABILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warranty</td>
</tr>
<tr>
<td>Geography Availability</td>
</tr>
</tbody>
</table>
This publication was developed for products and services offered in the United States and E.M.E.A countries. Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area.

Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors.

LENOVO PROVIDES THIS PUBLICATION "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore this disclaimer may not apply to you.

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

General: Review key information provided by Microsoft that may apply to your system purchase, including details on Windows 10, Windows 8, Windows 7, and potential upgrades/downgrades. Lenovo makes no representation or warranty regarding third-party products or services.

Trademarks: Lenovo, ThinkPad, ThinkCentre, ThinkStation and the Lenovo logo are trademarks of Lenovo. Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation. Ultrabook, Celeron, Celeron Inside, Core Inside, Intel, Intel Logo, Intel Atom, Intel Atom Inside, Intel Core, Intel Inside, Intel Inside Logo, Intel vPro, Itanium, Itanium Inside, Pentium, Pentium Inside, vPro Inside, Xeon, Xeon Phi, and Xeon Inside are trademarks of Intel Corporation in the U.S. and/or other countries. Other company, product or service names may be trademarks or service marks of others.

Warranty: For a copy of applicable warranties, write to: Lenovo Warranty Information, 1009 Think Place, Morrisville, NC, 27560. Lenovo makes no representation or warranty regarding third-party products or services. The Lenovo Limited Warranty applies only to Lenovo hardware products purchased for your own use, and does not transfer upon resale.

Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.

Lenovo Services:

- **Carry-in or Mail-in Service:** Parts and labor repair coverage where the customer is responsible for shipping (including packaging) or delivery to authorized warranty provider or repair center.
- **Depot or Courier Service:** Parts and labor repair coverage where shipping (including packaging) or delivery to the repair center is paid for by Lenovo.
- **Expedited Depot:** Parts and labor coverage with expedited turnaround. Shipping (including packaging) or delivery to the repair center is paid for by Lenovo.
- **Onsite / In-home Service:** Parts and labor repair coverage where labor is provided onsite at your place of business. If Lenovo determines your product problem is covered by the product warranty and cannot be resolved over the telephone, a technician will be dispatched to arrive onsite, typically the next day.

Included software: may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

Battery life: Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.