## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summary Of Change</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17 Inch - 20 Inch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ThinkVision E1922s</td>
<td>ThinkVision E1922s Platform Specifications</td>
<td>35</td>
</tr>
<tr>
<td>ThinkVision E2054</td>
<td>ThinkVision E2054 Platform Specifications</td>
<td>36</td>
</tr>
<tr>
<td>ThinkVision LT1913p Square</td>
<td>ThinkVision LT1913p Square Platform Specifications</td>
<td>37</td>
</tr>
<tr>
<td>ThinkVision T1714</td>
<td>ThinkVision T1714 Platform Specifications</td>
<td>38</td>
</tr>
<tr>
<td>ThinkVision T1714p</td>
<td>ThinkVision T1714p Platform Specifications</td>
<td>39</td>
</tr>
<tr>
<td>ThinkVision T2054p</td>
<td>ThinkVision T2054p Platform Specifications</td>
<td>40</td>
</tr>
<tr>
<td>21 Inch - 24 Inch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ThinkVision E21</td>
<td>ThinkVision E21 Platform Specifications</td>
<td>41</td>
</tr>
<tr>
<td>ThinkVision E24</td>
<td>ThinkVision E24 Platform Specifications</td>
<td>42</td>
</tr>
<tr>
<td>ThinkVision LT2423</td>
<td>ThinkVision LT2423 Platform Specifications</td>
<td>43</td>
</tr>
<tr>
<td>ThinkVision P24h</td>
<td>ThinkVision P24h Platform Specifications</td>
<td>44</td>
</tr>
<tr>
<td>ThinkVision P24q</td>
<td>ThinkVision P24q Platform Specifications</td>
<td>45</td>
</tr>
<tr>
<td>ThinkVision T2224d</td>
<td>ThinkVision T2224d Platform Specifications</td>
<td>46</td>
</tr>
<tr>
<td>ThinkVision T2224z</td>
<td>ThinkVision T2224z Platform Specifications</td>
<td>47</td>
</tr>
<tr>
<td>ThinkVision T2254p</td>
<td>ThinkVision T2254p Platform Specifications</td>
<td>48</td>
</tr>
<tr>
<td>ThinkVision T22i</td>
<td>ThinkVision T22i Platform Specifications</td>
<td>49</td>
</tr>
<tr>
<td>21 Inch - 24 Inch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ThinkVision E21</td>
<td>ThinkVision E21 Platform Specifications</td>
<td>50</td>
</tr>
<tr>
<td>ThinkVision E24</td>
<td>ThinkVision E24 Platform Specifications</td>
<td>51</td>
</tr>
<tr>
<td>ThinkVision LT2423</td>
<td>ThinkVision LT2423 Platform Specifications</td>
<td>52</td>
</tr>
<tr>
<td>ThinkVision P24h</td>
<td>ThinkVision P24h Platform Specifications</td>
<td>53</td>
</tr>
<tr>
<td>ThinkVision P24q</td>
<td>ThinkVision P24q Platform Specifications</td>
<td>54</td>
</tr>
<tr>
<td>ThinkVision T2224d</td>
<td>ThinkVision T2224d Platform Specifications</td>
<td>55</td>
</tr>
<tr>
<td>ThinkVision T2224z</td>
<td>ThinkVision T2224z Platform Specifications</td>
<td>56</td>
</tr>
<tr>
<td>ThinkVision T2254p</td>
<td>ThinkVision T2254p Platform Specifications</td>
<td>57</td>
</tr>
<tr>
<td>ThinkVision T22i</td>
<td>ThinkVision T22i Platform Specifications</td>
<td>58</td>
</tr>
<tr>
<td>Above 25 Inch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ThinkVision T2524d</td>
<td>ThinkVision T2524d Platform Specifications</td>
<td>59</td>
</tr>
<tr>
<td>ThinkVision T2524z</td>
<td>ThinkVision T2524z Platform Specifications</td>
<td>60</td>
</tr>
<tr>
<td>ThinkVision T2554p</td>
<td>ThinkVision T2554p Platform Specifications</td>
<td>61</td>
</tr>
<tr>
<td>ThinkVision T25i</td>
<td>ThinkVision T25i Platform Specifications</td>
<td>62</td>
</tr>
<tr>
<td>Above 25 Inch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ThinkVision T2524d</td>
<td>ThinkVision T2524d Platform Specifications</td>
<td>63</td>
</tr>
<tr>
<td>ThinkVision T2524z</td>
<td>ThinkVision T2524z Platform Specifications</td>
<td>64</td>
</tr>
<tr>
<td>ThinkVision T2554p</td>
<td>ThinkVision T2554p Platform Specifications</td>
<td>65</td>
</tr>
<tr>
<td>ThinkVision T25i</td>
<td>ThinkVision T25i Platform Specifications</td>
<td>66</td>
</tr>
<tr>
<td>Above 25 Inch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ThinkVision T2524d</td>
<td>ThinkVision T2524d Platform Specifications</td>
<td>67</td>
</tr>
<tr>
<td>ThinkVision T2524z</td>
<td>ThinkVision T2524z Platform Specifications</td>
<td>68</td>
</tr>
<tr>
<td>Product Name</td>
<td>Page</td>
<td></td>
</tr>
<tr>
<td>------------------------------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>ThinkVision Pro2820</td>
<td>69</td>
<td></td>
</tr>
<tr>
<td>ThinkVision Pro2820 Platform Specifications</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>ThinkVision T27i</td>
<td>71</td>
<td></td>
</tr>
<tr>
<td>ThinkVision T27i Platform Specifications</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>ThinkVision X1</td>
<td>73</td>
<td></td>
</tr>
<tr>
<td>ThinkVision X1 Platform Specifications</td>
<td>74</td>
<td></td>
</tr>
<tr>
<td>ThinkVision X1 (2nd Gen)</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>ThinkVision X1 (2nd Gen) Platform Specifications</td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>Legal Information</td>
<td>77</td>
<td></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.

August, 2018 - Version 528

Additions in this update

► New product(s)
  ThinkVision X1 (2nd Gen) announced July 2018
  ThinkVision P32u announced July 2018
  ThinkVision T27i announced July 2018

► New model(s)
  None

► Others
  None

Withdrawals in this update

► Withdrawn product(s)
  None
### 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

### ThinkVision E1922s Wide Monitor

![ThinkVision E1922s Wide Monitor](image)

### Lenovo ThinkVision E1922s Wide

<table>
<thead>
<tr>
<th>Name</th>
<th>E1922s Wide Flat Panel Monitor</th>
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<tbody>
<tr>
<td>Case color</td>
<td>Black</td>
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<tr>
<td>Type-model</td>
<td>60G2AAR6US / 60G2AAT6EU</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>
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<tr>
<td>Aspect ratio</td>
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<tr>
<td>Pixel pitch (mm)</td>
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<tr>
<td>Dot/Pixel per Inch</td>
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<tr>
<td>Brightness</td>
<td>200 nits or cd/m² (typical)</td>
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<tr>
<td>Contrast ratio</td>
<td>600:1 (typical)</td>
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<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>Bezel width</td>
<td>Sides: 0.73&quot; (18.5mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>341.5mm H x 17.65&quot; W x 6.58&quot; D;</td>
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<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>
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<tr>
<td>Weight</td>
<td>6.03 lb; 2.74 kg</td>
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<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
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<tr>
<td>Available date</td>
<td>March 2014</td>
</tr>
</tbody>
</table>

### 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
- On screen display with 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)

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*Lenovo ThinkVision E1922s Wide Monitor*
### Lenovo ThinkVision E2054 Wide

#### 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

#### Specifications
- **Name**: E2054 Wide Flat Panel Monitor
- **Case color**: Raven black
- **Type-model**: 60DFAAR1US / 60DFAAT1EU
- **Panel**: TFT-LCD, In-Plane Switching (IPS), LED backlight
- **Viewable image size**: 19.5" (494mm) diagonal
- **Max view area (W x H)**: 16.48" x 10.33" / 418.6mm x 262.4mm
- **Native resolution**: 1440x900
- **Aspect ratio**: 16:10
- **Pixel pitch (mm)**: 0.097mm x 0.292mm
- **Brightness**: 87 dp
- **Contrast ratio**: 72%
- **Pixel response time**: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
- **Tilt adjustable stand**: Top: 0.71" (18.0mm) Bottom: 0.70" (17.9mm) Sides: 1.02" (26.0mm)
- **Dimensions (HxWxD)**: 14.65" H x 17.95" W x 4.71" 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)
- **Available date**: November 2015

#### Power management
- VESA DPMS-compliant
- ENERGY STAR® 6.0
- ISO 9241-307
- TCO Class B
- 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

#### Viewing adjustments
- Tilt: 22° backward, -5° forward
- On screen display: None
- Control features: On screen display with digital user controls (8 languages)
- Multiple input: Direct access (control buttons on front) for automatic image setup and adjustment for brightness
- 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)

#### Limited Warranty

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

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

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

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**ThinkVision E2054 Wide Monitor**

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

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**Lenovo**

November 2015
## Lenovo ThinkVision LT1913p Square

**Name**
Lenovo ThinkVision LT1913p Square Flat Panel Monitor

**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, 82x624
- XGA: 1024x768, 1152x864, 1152x900
- SXGA: 1280x1024

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

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

### Limited Warranty

### Accessories
See details at [www.lenovo.com/support/monitoraccessories](www.lenovo.com/support/monitoraccessories)

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

---

ThinkVision LT1913p Square 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 Reference (PSREF)**

---

Kensington MicroSaver Cable Lock
Kensington Twin Head Cable Lock
Lenovo Security Cable Lock
Lenovo Easy Reach Monitor Stand

See [www.lenovo.com/support/monitoraccessories](www.lenovo.com/support/monitoraccessories)

Lenovo
April 2015
Lenovo ThinkVision T1714

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
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
Native pixel pitch: 0.264mm
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: 0.69" (17.5mm)
Dimensions:
HxWxD: 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
SVGA: 800x600
XGA: 1024x768, 1152x864,
SXGA: 1280x800, 1280x1024

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)
Control features:
Direct access (buttons on front) for automatic image setup and brightness
Multiple input:
Dual input (two different PCBs 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 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 ThinkVision T1714p

#### 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

<table>
<thead>
<tr>
<th>Name</th>
<th>T1714p Square Flat Panel Monitor</th>
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<tr>
<td>Case color</td>
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<tr>
<td>Type-model</td>
<td>60FELAR1US / 60FELAT1EU</td>
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<td>Panel</td>
<td>TFT-LCD, twisted nematic (TN), White LED backlight</td>
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<tr>
<td>Viewable image size</td>
<td>17.0” (432mm) diagonal</td>
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<tr>
<td>Optimum resolution</td>
<td>1280x1024</td>
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<td>Aspect ratio</td>
<td>5:4</td>
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<td>Pixel pitch (mm)</td>
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<td>Brightness</td>
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<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
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<td>Pixel response time</td>
<td>5ms (typical)</td>
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<td>Color gamut</td>
<td>72%</td>
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<tr>
<td>Viewable image size</td>
<td>17.0” (432mm) diagonal</td>
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<tr>
<td>Max view area (W x H)</td>
<td>13.3” x 10.6” (337.9mm x 270.3mm)</td>
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<td>Optimum resolution</td>
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<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>View 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>Bezels width</td>
<td>Sides: 0.89” (17.5mm)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>17.63” H x 14.74” W x 9.61” D; (HxWxD, including stand)</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>

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

### Viewing Adjustments
- Tilt: 22° back, -5° forward; lift: 4.3” (110mm)  

### 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](http://www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)
**Lenovo ThinkVision T2054p Wide**

**Name**
T2054p Wide Flat Panel Monitor

**Bezel color**
Raven black

**Type-model**
60G1MAR2US / 60G1MAT2EU

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

**Viewable image size**
19.5" (495mm) diagonal

**Max view area (W x H)**
16.48" x 10.33" (418.6mm x 262.4mm)

**Native resolution**
1440x900

**Aspect ratio**
16:10

**Pixel pitch (mm)**
0.2915 x 0.2915 mm

**Dot/Pixel per Inch**
87 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, swivel, and height adjustable stand

**Bezel width**
Sides: 0.67" (17.0mm)

**Dimensions (HxWxD)**
13.62" H x 17.88" W x 9.55" D; 345.9mm H x 454.2mm W x 242.6mm D

**Power supply**
14.5 watts typical, 21 watts maximum, <0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**
8.16 lb; 3.70 kg

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

**Available date**
September 2015

**Features**
- Widescreen 19.5-inch monitor
- Supports 1440x900 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- EPEAT Gold certified
- Supports optional soundbar
- Microsoft Windows 8 / Windows 8.1 certified
- Microsoft Windows 10 certified

**ThinkVision T2054p Wide Flat Panel Monitor**

**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: 640x480, 720x400, 720x576
- SVGA: 800x600
- XGA: 1024x768, 1152x864
- SXGA: 1280x800, 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900

**Presets / user settings**
Standard presets: 22
user settings: 16

**Viewing adjustments**
Tilt: 22° backward, -5° forward; Lift: 4.3" (110mm); Swivel: +/-45°; detachable stand

**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

**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
November 2016
Lenovo ThinkVision E21 Wide Flat Panel Monitor

Name: E21 Wide Flat Panel Monitor
Bezel color: Black
Type-model: 61B9JAR1US, 61B9JAT1EU
Panel: TFT-LCD, twisted nematic (TN), White LED backlight
Viewable image size: 20.7" (525.78mm) diagonal
Max view area (W x H): 18.03" x 10.14" (457.92mm x 257.58mm)
Native resolution: 1920x1080
Aspect ratio: 16:9
Pixel pitch (mm): 0.2385 x 0.2385 mm
Dot/Pixel per Inch: 106 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 adjustable stand
Bezel width: Sides: 0.6" (15.3mm)
Dimensions (HxWxD): 370.9mm H x 490.5mm W x 204.9mm D
Power supply: 18 watts typical, 23 watts maximum, <0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)
Weight: 5.82 lb; 2.64 kg
Limited warranty: 3 year (includes backlight)
Available date: August 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, 800x600, 832x624
SXGA: 1280x1024
WXGA+: 1440x900
WSXGA+: 1680x1050
Full HD: 1920x1080
Presets display modes: Standard presets: 22

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

Viewing adjustments: Tilt: 22° back, -5° forward
Rotating screen: None
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: 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 (1.2), digital, black, HDCP-compliant
Signal cables: (1) 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, 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 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

See all monitors at www.lenovo.com/thinkvision

Lenovo
August 2017
<table>
<thead>
<tr>
<th>Name</th>
<th>E24 Wide Flat Panel Monitor</th>
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</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61B7JA86US / 61B7JA76EU</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” (604.7mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.75” x 11.67” (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>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>View angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.51” (13mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>15.9” H x 21.81” W x 8.07” D; 403.8mm H x 554mm W x 204.9mm D</td>
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<tr>
<td>Power supply</td>
<td>18 watts typical, &lt;0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>8.2 lb; 3.7 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, ENERGY Star Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x350, 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: 1366x768</td>
</tr>
<tr>
<td></td>
<td>WXGA+: 1440x900, 1600x900</td>
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<td></td>
<td>WSXGA+: 1680x1050</td>
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<tr>
<td></td>
<td>Full HD: 1920x1080</td>
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<tr>
<td>Presets display modes</td>
<td>Standard presets: 24; user settings: 20</td>
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<tr>
<td>View angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.51” (13mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>15.9” H x 21.81” W x 8.07” D; 403.8mm H x 554mm W x 204.9mm D</td>
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<td>Power supply</td>
<td>18 watts typical, &lt;0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>8.2 lb; 3.7 kg</td>
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<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
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<td>Available date</td>
<td>August 2017</td>
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<tr>
<td>VESA-compliant</td>
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<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
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<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, ENERGY Star Gold rating</td>
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<tr>
<td>Preset resolutions</td>
<td>VGA: 640x350, 640x480, 720x400</td>
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<td>SVGA: 800x600, 832x624</td>
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<td>XGA: 1024x768, 1152x864</td>
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<td></td>
<td>SXGA: 1280x1024</td>
</tr>
<tr>
<td></td>
<td>WXGA: 1366x768</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>Standard presets: 24; user settings: 20</td>
</tr>
</tbody>
</table>

### Features
- Widescreen 23.8-inch monitor
- Supports 1920x1080 resolution
- Supports ThinkCentre Tiny VESA mount
- Supports optional soundbar
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Gold certified
- Microsoft® Windows® 7 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)
**Name**

Lenovo ThinkVision LT2423 Wide

**Features**

- Widescreen 24-inch monitor
- Supports 1920x1080 resolution
- Two 3W stereo speakers
- Audio in (3.5mm)
- Supports VGA and HDMI 1.4 interfaces
- Supports optional soundbar
- Support Lenovo Tiny PC and 3rd party thin client via optional Lenovo bracket
- Microsoft® Windows® 8 certified
- Arsenic/Lead/Mercury free

**Name**

Lenovo ThinkVision LT2423 Wide Flat Panel Monitor

**Case color**

Business black

**Type-model**

60A8KAR2US / 60A8KAT2EU

**Panel**

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

**Viewable image size**

24" (610mm) diagonal

Max view area (W x H)

20.9" x 11.8" (531.4mm x 298.9mm)

**Optimum resolution**

1920x1080

**Max view area (W x H)**

20.9" x 11.8" (531.4mm x 298.9mm)

**Aspect ratio**

16:9

**Pixel pitch (mm)**

0.278mm

**Dot/ Pixel per Inch**

92 dpi

**Brightness**

250 nits or cd/m² (typical)

**Contrast ratio**

1000:1 (typical)

**Max pixel rate**

205MHz

**Contrast ratio**

2000:1

**Aspect ratio**

16:9

**Pixel response time**

5ms

**Color gamut**

72%

**Viewing angle at 10:1 CR**

170° horizontal, 160° vertical

**Stand**

Tilt stand

**Bezel width**

Sides: 0.67" (17.0mm); top: 0.67" (17.0mm); bottom: 1.02" (26.0mm)

**Dimensions**

13.53" H x 22.33" W x 1.97" D;

(610mm x 567.1mm x 50.0mm)

**Dimensions**

16.30" H x 22.33" W x 5.80" D;

(414.3mm x 567.1mm x 147.0mm)

**Power supply**

21 watts typical, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**

8.30 lb; 3.76kg

**Limited warranty**

3 year (includes backlight)

**Available date**

July 2013

**VESA-compliant**

VESA DDC2B/CI

**Power management**

ENERGY STAR® 6.0

**Ergonomics**

ISO 9241-307

**Emission standards**

MPR-2, FCC Class B

**Environmental**

TCO Displays 6.0, TCO Certified Edge 1.2, WEEE, RoHs, EPEAT® Gold rating, ULE Gold

**Preset resolutions**

- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600, 832x624
- XGA: 1024x768, 1152x864
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1600x900
- WSGA+: 1680x1050
- Full HD: 1920x1080

**Presets / user settings**

Standard presets: 24; User settings: 20

**Viewing adjustments**

Tilt: 22° back, -5° forward

**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, input switch, and brightness

**Multimedia**

Integrated stereo speakers (3 watts x 2)

**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

**Signal cables**

- (1) 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, attached stand, Setup poster, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter Audio 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
- ThinkCentre Extend Arm 57Y4352
- 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)
<table>
<thead>
<tr>
<th>Name</th>
<th>P24h Wide Flat Panel Monitor</th>
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<tbody>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61AEGER3US / 61AEGAT3EU</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; (604.7mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.74&quot; x 11.67&quot; (526.9mm x 296.4mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>2560x1440</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.2056x0.2058 mm</td>
</tr>
<tr>
<td>Dot/Pixel per Inch</td>
<td>124 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>300 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
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<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° (+/- 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>14.7&quot; H x 21.26&quot; W x 10.3&quot; D; 373.4mm H x 540.2mm W x 261.75mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>24 watts typical, 120 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>12.54 lb; 5.69 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
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<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
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<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>
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<tr>
<td></td>
<td>WXGA: 1366x768</td>
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<tr>
<td></td>
<td>WXGA+: 1440x900, 1680x900</td>
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<tr>
<td></td>
<td>WSXGA+: 1680x1050</td>
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<tr>
<td></td>
<td>Full HD: 1920x1080, 1920x1200</td>
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<tr>
<td>QHD: 2560x1440</td>
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</tr>
<tr>
<td>Presets display modes</td>
<td>HDMI: 22; DP: 14</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</td>
</tr>
<tr>
<td>USB hub</td>
<td>USB Hub: one USB 3.1 Type-C upstream port, four USB 3.0 Type-A downstream ports</td>
</tr>
<tr>
<td>Multimedia</td>
<td>Audio-out, optional sound bar supported</td>
</tr>
<tr>
<td>Camera</td>
<td>None</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Support HDMI, DisplayPort, USB 3.1 Type-C, DisplayPort-out</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) 2*HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(2) DisplayPort (1.2), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(3) DisplayPort-out, digital</td>
</tr>
<tr>
<td></td>
<td>(4) USB 3.1 Type-C</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) USB 3.1 Type-C cable, 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 USB 3.1 Type-C cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

**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
# P24q Wide Flat Panel Monitor

<table>
<thead>
<tr>
<th>Name</th>
<th>Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>61A5GAR3US / 61A5GAT3EU</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>23.8&quot; (604.5mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.74&quot; x 11.67&quot; (526.85mm x 296.35mm)</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>0.2058 x 0.2058 mm</td>
</tr>
<tr>
<td>Brightness</td>
<td>300 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</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>14.7&quot; H x 21.26&quot; W x 10.3&quot; D; (HxWxD, including stand) 373.4mm H x 540.2mm W x 261.75mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>24 watts typical, 67 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>12.35 lb; 5.6kg (including stand)</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year</td>
</tr>
<tr>
<td>Available date</td>
<td>January 2017</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® 7.0</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, RoHS, EPEAT™ Gold rating, ULE Gold</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, 1600x900</td>
</tr>
<tr>
<td></td>
<td>WSXGA+: 1680x1050</td>
</tr>
<tr>
<td></td>
<td>Full HD: 1920x1080, 1920x1200</td>
</tr>
<tr>
<td></td>
<td>QHD: 2560x1440</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Standard presets: 20; user settings: 24</td>
</tr>
<tr>
<td>View angles</td>
<td>Tilt: 30° back, -5° forward; lift: 4.33° (110mm); swivel: +/-45°</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 menu, source switch, and brightness</td>
</tr>
<tr>
<td>USB hub</td>
<td>USB Hub: one USB 3.0 upstream port, four USB 3.0 downstream ports</td>
</tr>
<tr>
<td>Multimedia</td>
<td>Audio-out, optional sound bar supported</td>
</tr>
<tr>
<td>Camera</td>
<td>None</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>Support HDMI, DisplayPort, mini DisplayPort, DisplayPort-out</td>
</tr>
<tr>
<td></td>
<td>(1) 2'HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(2) DisplayPort (1.2), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(3) Mini DisplayPort, digital, HDCP-compliant</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) detachable, mini DisplayPort to DisplayPort, digital, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (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, 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</td>
</tr>
</tbody>
</table>

## 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 ThinkVision T2224d Wide

**Name**: T2224d Wide Flat Panel Monitor

**Bezel color**: Black

**Type-model**: 61B1JA1US / 61B1JAT1EU

**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**: 7ms (typical); 4ms (extreme mode)

**Color gamut**: 72%

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

**Stand**: Tilt stand

**Bezel width**: Sides: 0.69” (17.6mm)

**Dimensions (HxWxD)**: 15.02” H x 20.19” W x 8.06” D; 381.4mm H x 512.9mm W x 204.9mm D

**Power supply**: 20 watts typical, 25 watts maximum

**Weight**: 6.48 lb; 2.94 kg

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

**Available date**: March 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, 1280x800, 1366x768
- WXGA+: 1440x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080

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

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

**Rotating screen**: None

**On screen display**: None

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

**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)

March 2017
## Lenovo ThinkVision T2224z Wide

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Name</th>
<th>T2224z Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Raven black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60F5MAR6US / 60F5MAT6EU</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&quot; (546mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>18.74&quot; x 10.54&quot; (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>Dot/Pixel per inch</td>
<td>102 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>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>Sides: 0.69&quot; (17.6mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>14.08&quot; H x 20.19&quot; W x 9.55&quot; D; 357.8mm H x 512.9mm W x 242.7mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>21 watts typical, 25 watts maximum (without USB 3.0 hub), 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>10.63 lb; 4.83 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/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, XGA: 1024x768, 1152x864, SXGA: 1280x1024, WXGA: 1280x768, 1280x800, 1366x768, WXGA+: 1440x900, W SXGA+: 1680x1050, Full HD: 1920x1080</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Standard presets: 27; user settings: 20</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 30° back, -5° forward; lift: 4.3&quot; (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); 2 ports for accessories (2 USB 3.0)</td>
</tr>
<tr>
<td>Multimedia</td>
<td>Integrated digital speakers (3 watts x 2)</td>
</tr>
<tr>
<td>Camera</td>
<td>Integrated camera (Full HD) and digital dual array microphone</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) HDMI (1.4), digital, HDCP-compliant</td>
<td></td>
</tr>
<tr>
<td>(3) DisplayPort, 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>(2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
<td></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>

### 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
November 2016
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 | Horizontal: 170° (+/- 85°), Vertical: 160° (+/- 80°)  
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 | VESA DDC2B/CI  
Power management | ENERGY STAR® qualified  
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  
| WXGA+: 1600x900, 1680x1050  
Presets / user settings | Standard presets: 28; user settings: 20  
Viewing adjustments | Tilt: 30° back, -5° forward; lift: 4.3" (110mm); swivel: +/- 85°; 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  

**Features**  
- Widescreen 22.0-inch monitor  
- Supports 1680x1050 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  

![ThinkVision T2254p Wide Monitor](image-url)  

**Limited Warranty**  

**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 ThinkVision T22i

**Name**
- 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

**Bezel width**
- Sides: 0.08" (2.0mm)

**Dimensions (HxWxD)**
- 14.08" H x 19.28" W x 9.92" D; 357.6mm H x 489.7mm W x 251.9mm D

**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

### 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
- VESA DDC2B/CI
- ENERGY STAR® qualified
- ISO 9241-307
- FCC Class B
- 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)
- 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

### 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 T22v Wide Flat Panel Monitor

**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

**Technical Specifications**

- **Name**: T22v Wide Flat Panel Monitor
- **Bezel color**: Black
- **Type-model**: 61BMBMAR6US / 61BMBMAT6EU
- **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 4.92" 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

**Preset Resolutions**

- 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; 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 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 sound bar supported
- Optional camera
- Camera: Integrated FHD camera with IR

**Multiple Input**

- Support HDMI, DisplayPort, VGA (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)

**Limited Warranty**


**Accessories**

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

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

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

**Name**
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

**Brightness**
96 dpi

**Contrast ratio**
250 nits or cd/m² (typical)

**Pixel response time**
1000:1 (typical)

**Color gamut**
5ms (typical)

**Viewing angle at 10:1 CR**
72%

**Stand**
Tilt stand

**Bezel width**
Sides: 0.68" (17.3mm)

**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

**Weight**
<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

**Emmission 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

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**Features**
- Widescreen 23.0-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

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

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**Limited Warranty**

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**See all monitors at [www.lenovo.com/thinkvision](http://www.lenovo.com/thinkvision)**
### Lenovo ThinkVision T2364t Wide Touch

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>T2364t Wide Flat Panel Monitor</td>
</tr>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60E9MAR1US / 60E9MAT1EU</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>23.0” (584mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.05” x 11.28” (509.2mm x 286.4mm)</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td>Touch</td>
<td>Supports 10-point touch</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/ Pixel per inch</td>
<td>95 dpi</td>
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<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 horizontal</td>
<td>178° (+/- 89°)</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR vertical</td>
<td>178° (+/- 89°)</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.079” (2.0mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>12.53” H x 20.56” W x 2.86” D</td>
</tr>
<tr>
<td>Power supply</td>
<td>22 watts typical, 45 watts maximum,</td>
</tr>
<tr>
<td>Weight</td>
<td>&lt;0.5 watts standby/suspend, universal,</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>June 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,</td>
</tr>
<tr>
<td></td>
<td>RoHS, EPEAT™ Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x350, 640x480, 720x100, 700x570</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: 1366x768</td>
</tr>
<tr>
<td></td>
<td>WXGA+: 1440x900, 1600x900</td>
</tr>
<tr>
<td></td>
<td>WUXGA+: 1680x1050</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Full HD: 1920x1080</td>
</tr>
<tr>
<td>View angle</td>
<td>Tilt: 10° - 70° degrees; 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>USB hub</td>
<td>USB 3.0 Hub: 1 port into PC (USB 3.0); 3 ports for accessories (3 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, HDMI at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td></td>
<td>(3) 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 HDMI cable, 1.8 meter DisplayPort cable, 1.8 meter USB signal cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

**Features**
- Widescreen 23.0-inch monitor
- Supports 1920x1080 resolution
- Includes dual input connection for attachment to two systems concurrently
- EPEAT Gold certified
- 10-point touch screen
- Microsoft® Windows® 7 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

May 2016
<table>
<thead>
<tr>
<th>Name</th>
<th>Features</th>
</tr>
</thead>
</table>
| **Lenovo ThinkVision T23d-10** Wide Flat Panel Monitor | • 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 |

<table>
<thead>
<tr>
<th>Name</th>
<th>Bezel color</th>
<th>Type-model</th>
<th>Panel</th>
<th>Viewable image size</th>
<th>Max view area (W x H)</th>
<th>Native resolution</th>
<th>Aspect ratio</th>
<th>Pixel pitch (mm)</th>
<th>Dot/Pixel per inch</th>
<th>Brightness</th>
<th>Contrast ratio</th>
<th>Pixel response time</th>
<th>Color gamut</th>
<th>Viewing angle at 10:1 CR</th>
<th>Stand</th>
<th>Bezel width</th>
<th>Dimensions (HxWxD)</th>
<th>Power supply</th>
<th>Weight</th>
<th>Limited warranty</th>
<th>Available date</th>
<th>VESA-compliant</th>
<th>Power management</th>
<th>Emission standards</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>T23d-10 Wide Flat Panel Monitor</td>
<td>Black</td>
<td>61C3MAR6US / 61C3MAT6EU</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
<td>22.5&quot; (571.5mm) diagonal</td>
<td>19.5&quot; x 12.4&quot; (496.2mm x 313.9mm)</td>
<td>1920x1200</td>
<td>16:10</td>
<td>0.25 x 0.25 mm</td>
<td>100.6 dpi</td>
<td>250 nits or cd/m² (typical)</td>
<td>1000:1 (typical)</td>
<td>6ms (typical)</td>
<td>72%</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
<td>Sides: 0.09&quot; (2.3mm)</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>
<td>15 watts typical, 18 watts maximum, &lt;0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
<td>10.67 lb; 4.85 kg</td>
<td>3 year (includes backlight)</td>
<td>June 2018</td>
<td>VESA DDC2B/CI</td>
<td>ENERGY STAR® qualified</td>
<td>ISO 9241-307</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating</td>
</tr>
</tbody>
</table>

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

**Presets display modes**
- Standard presets: 27; user settings: 20

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

**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**
- None

**Multiple input**
- Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)
- (1) VGA 15-pin D-shell, analog, blue
- (2) HDMI (1.4), digital, HDCP-compliant
- (3) DisplayPort, digital, black, HDCP-compliant

**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, 1.8 meter HDMI signal cable (NA only)

**Limited Warranty**


**Accessories**

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

Note: The specifications above may not be available in all regions.

Lenovo  
July 2018
### Name
T23i Wide Flat Panel Monitor

### Bezel color
Black

### Type-model
61ABMAR1US / 61ABMAT1EU

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

### Viewable image size
23" (584.2mm) diagonal

### Max view area (W x H)
20.36" x 11.92" (517.2mm x 302.8mm)

### Native resolution
1920x1080

### Aspect ratio
16:9

### Pixel pitch (mm)
0.2652 x 0.2652 mm

### Brightness
95.8 dpi

### Contrast ratio
250 nits or cd/m² (typical)

### Pixel response time
1000:1 (typical)

### Pixel pitch (mm)
6ms (typical)

### 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)
13.3" H x 20.56" W x 10.4" D;
337.7mm H x 522.2mm W x 264.2mm D

### Power supply
16 watts typical, 45 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 standards
TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating

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

### Presets display modes
HDMI: 18; DP: 18

### 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 and automatic image setup

### 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 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

### 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 T2424z Wide

## Product Specifications Reference (PSREF)

### Features
- Widescreen 23.8-inch monitor
- Supports 1920x1080 resolution
- Supports ThinkCentre Tiny Clamp Bracket
- 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

### Specifications

<table>
<thead>
<tr>
<th>Name</th>
<th>T2424z Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Raven black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60F8MAR1US / 60F8MAT1EU</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; (604.7mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.75&quot; x 11.67&quot; (527.0mm x 296.5mm)</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>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>Stand</td>
<td>Tilt, swivel, pivot, and height adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.69&quot; (17.5mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>19.53&quot; H x 22.19&quot; W x 10.39&quot; D; 496.0mm H x 563.6mm W x 264.2mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>22 watts typical, 40 watts maximum (without 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>12.90 lb; 5.85 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>June 2016</td>
</tr>
</tbody>
</table>

### 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+: 1440x900, 1600x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080

### Presets / user settings
- Standard presets: 31; 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
- USB 3.0 Hub: 1 port into PC (USB 3.0); 2 ports for accessories (2 USB 3.0)

### Multimedia
- Integrated digital speakers (3 watts x 2)

### Camera
- Integrated camera (Full HD) and digital dual array microphone

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

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

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

### 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

### 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)

November 2016
<table>
<thead>
<tr>
<th>Name</th>
<th>T2454p Wide Flat Panel Monitor</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Raven black</td>
<td>- Widescreen 24.0-inch monitor</td>
</tr>
<tr>
<td>Type-model</td>
<td>60F9MAR1US / 60F9MAT1EU</td>
<td>- Supports 1920x1200 resolution</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED backlight</td>
<td>- Supports ThinkCentre Tiny Clamp Bracket</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>24.0” (609.6mm) diagonal</td>
<td>- Supports optional soundbar</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>20.41” x 12.76” (518.4mm x 324.0mm)</td>
<td>- Includes dual input connection for attachment to two</td>
</tr>
<tr>
<td>Native resolution</td>
<td>1920x1200</td>
<td>systems concurrently (analog and digital)</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:10</td>
<td>- EPEAT Gold certified</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.270 x 0.270 mm</td>
<td>- Microsoft Windows 7 certified</td>
</tr>
<tr>
<td>Brightness</td>
<td>300 nits or cd/m² (typical)</td>
<td>- Microsoft Windows 8 / Windows 8.1 certified</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
<td>- Microsoft Windows 10 certified</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>7ms (typical)</td>
<td></td>
</tr>
<tr>
<td>Color gamut</td>
<td>77.4%</td>
<td></td>
</tr>
<tr>
<td>View angle at 10:1 CR</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
<td></td>
</tr>
<tr>
<td>Bezel width</td>
<td>0.74” (18.8mm)</td>
<td></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>
<td></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>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>13.60 lb; 6.15 kg</td>
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</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
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</tr>
<tr>
<td>Available date</td>
<td>March 2015</td>
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</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/C1</td>
<td></td>
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<tr>
<td>Power management</td>
<td>ENERGY STAR® qualified</td>
<td></td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
<td></td>
</tr>
<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
<td></td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 7.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating</td>
<td></td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x350, 640x480, 720x1200</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SVGA: 800x600</td>
<td></td>
</tr>
<tr>
<td></td>
<td>XGA: 1024x768</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SXGA: 1280x1024</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WXGA: 1280x720, 1280x768, 1280x800</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WXGA+: 1440x900</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WUXGA+: 1680x1050, 1600x1200</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Full HD: 1920x1080, 1920x1200</td>
<td></td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Standard presets: 21;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>user settings: 20</td>
<td></td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 30° back, -5° forward; lift: 4.3° (110mm); swivel: +/-45°; detachable stand</td>
<td></td>
</tr>
<tr>
<td>Rotating screen</td>
<td>Screen pivots 90 degrees from landscape to portrait</td>
<td></td>
</tr>
<tr>
<td>On screen display</td>
<td>On screen display with digital user controls (8 languages)</td>
<td></td>
</tr>
<tr>
<td>Control features</td>
<td>Direct access (buttons on front) for automatic image setup, dual input and brightness</td>
<td></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>
<td></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>
<td></td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue (2) HDMI (1.4), digital, HDCP-compliant</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(3) DisplayPort, 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>
<td></td>
</tr>
<tr>
<td></td>
<td>(2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
<td></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>
<td></td>
</tr>
<tr>
<td>Security</td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
<td></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>
<td></td>
</tr>
</tbody>
</table>

**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)

**Limited Warranty**

**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

**Specifications**

<table>
<thead>
<tr>
<th>Name</th>
<th>Bezel color</th>
<th>Type-model</th>
<th>Panel</th>
<th>Viewable image size</th>
<th>Max view area (W x H)</th>
<th>Native resolution</th>
<th>Aspect ratio</th>
<th>Pixel pitch (mm)</th>
<th>Brightness</th>
<th>Contrast ratio</th>
<th>Pixel response time</th>
<th>Color gamut</th>
<th>Viewing angle at 10:1 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>T24d Wide Flat Panel Monitor</td>
<td>Black</td>
<td>61B4MAR1US / 61B4MAT1EU</td>
<td>TFT-LCD, In-Plane Switching (IPS), White LED Backlight</td>
<td>24&quot; (609.6mm) diagonal</td>
<td>20.41&quot; x 12.75&quot; (518.4mm x 324mm)</td>
<td>1920x1200</td>
<td>16:10</td>
<td>0.27 x 0.27 mm</td>
<td>300 nits or cd/m² (typical)</td>
<td>1000:1 (typical)</td>
<td>7ms (typical)</td>
<td>99%</td>
<td>178° (+/- 89°) horizontal, 178° (+/- 89°) vertical</td>
</tr>
</tbody>
</table>

**Stand**
- Tilt, swivel, pivot, and height adjustable stand
- Sides: 0.08" (2.0mm)
- Dimensions (HxWxD): 19.58" H x 20.99" W x 10.25" D;
- Power supply: 22 watts typical,
- 64 watts maximum (with USB 3.0 hub),
- <0.3 watts standby/suspend, universal, integrated (no external brick-like power supply)
- Weight: 12.41 lb; 5.63 kg

**Limited warranty**
- 3 year (includes backlight)
- Available date: June 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

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

**Presets display modes**
- 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](www.lenovo.com/support/monitoraccessories)

- See all monitors at [www.lenovo.com/thinkvision](www.lenovo.com/thinkvision)
## Lenovo ThinkVision T24i Wide Flat Panel Monitor

### Features
- Widescreen 23.8-inch monitor
- Supports 1920x1080 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

### Specifications
- **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 296.5mm)
- **Native resolution**: 1920x1080
- **Aspect ratio**: 16:9
- **Pixel pitch (mm)**: 0.2745 x 0.2745 mm
- **Dot/Pixel per Inch**: 93 dpi
- **Brightness**: 250 nits or cd/m2 (typical)
- **Pixel response time**: 6ms (typical)
- **Color gamut**: 72%
- **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**: 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**: 11.57 lb; 5.25 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: 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1680x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080

### Presets display modes
- HDMI: 17; DP: 17

### Viewing adjustments
- **Tilt**: 30° back, -5° forward; **rotation**: 90 degrees from landscape to portrait
- **Control features**: Direct access (buttons on front) for power, menu, input source select and brightness and automatic image setup
- **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)

### 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)

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**Name**: T24i Wide Flat Panel Monitor

**Bezel color**: Black

**Type-model**: 61A6MAR3US / 61A6MAT3EU

**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 296.5mm)

**Native resolution**: 1920x1080

**Aspect ratio**: 16:9

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

**Dot/Pixel per Inch**: 93 dpi

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

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

**Color gamut**: 72%

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

**Stand**:
- Tilt, swivel, pivot, and height adjustable stand
- 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**: 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**: 11.57 lb; 5.25 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: 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900, 1680x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080

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

**Viewing adjustments**:
- **Tilt**: 30° back, -5° forward; **rotation**: 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 and automatic image setup

**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

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**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
<table>
<thead>
<tr>
<th>Name</th>
<th>T24m Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>61B8RAR3US / 61B8RAT3EU</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; (604.7mm) 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>Dot/Pixel per Inch</td>
<td>92 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>99% sRGB</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: 0.08&quot; (2.0mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>19.03&quot; H x 21.26&quot; W x 10.3&quot; D; 483.44mm H x 540.22mm W x 261.75mm D</td>
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<tr>
<td>Power supply</td>
<td>17 watts typical, 110 watts maximum (with USB 3.0 hub), &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
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<tr>
<td>Weight</td>
<td>12.34 lb; 5.6 kg</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
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<tr>
<td>Available date</td>
<td>August 2017</td>
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<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/CI</td>
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<tr>
<td>Power management</td>
<td>ENERGY STAR® certified</td>
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<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
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<tr>
<td>Emission standards</td>
<td>FCC Class B</td>
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<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</td>
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<td></td>
<td>SVGA: 800x600</td>
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<td></td>
<td>XGA: 1024x768</td>
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<td>SXGA: 1280x1024</td>
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<td>WXGA: 1366x768</td>
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<tr>
<td></td>
<td>WXGA+: 1440x900, 1600x900</td>
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<td></td>
<td>WSXGA+: 1680x1050</td>
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<tr>
<td>Full HD:</td>
<td>1920x1080, 1920x1200</td>
</tr>
<tr>
<td>Presets display modes</td>
<td>HDMI: 19; DP: 11</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 30° back, -5° forward; lift: 4.3&quot; (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>USB 3.0 Hub: 1 port into PC (USB 3.0); 4 ports for accessories (4 USB 3.0)</td>
</tr>
<tr>
<td>Multimedia</td>
<td>Audio-out, optional sound bar supported</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Support HDMI, DisplayPort, USB 3.1 Type-C</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(2) DisplayPort (1.2), digital, HDCP-compliant</td>
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<tr>
<td></td>
<td>(3) USB 3.1 Type-C</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) 1.8 meter USB Type-C to USB Type-C cable</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 USB Type-C to USB Type-C cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

**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

**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)
**ThinkVision T24v Wide Flat Panel Monitor**

**Bezel color**: Black

**Type-model**: 61BCM6US / 61BCM6TEU

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

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

**Dot/Pixel per Inch**: 92 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: 0.30" (7.6mm)

**Dimensions (HxWxD)**: 19.72" H x 21.28" W x 10.32" D; 500.5mm H x 540.2mm W x 261.9mm D

**Power supply**: 20 watts typical, 45 watts maximum (with USB 3.0 hub), <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**: 11.18 lb; 5.07 kg

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

**Available date**: October 2017

**Presets display modes**: Presets: 24; user modes: 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 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 sound bar supported

**Camera**: Integrated FHD camera with IR

**Multiple input**: Support HDMI, DisplayPort, VGA

**Monitor connectors**: (1) VGA 15-pin D-shell, analog, blue

**Signal cables**: (2) HDMI (1.4), digital, HDCP-compliant

**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)

**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

**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

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)
Pixel response time: 7ms (typical)
Color gamut: 72%
Viewing angle at 10:1 CR: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
Stand: Tilt: 22° back, -5° forward

Power management
ENERGY STAR® qualified

Ergonomics
ISO 9241-307
FCC Class B

Environmental
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: RealSense 3D camera SR300
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) DP 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 adaptor, 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

ThinkVision X24 Pro Wide Monitor

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
### 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

### Emission 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

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### 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)

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Lenovo

December 2017
**Name**

P27 Wide Flat Panel Monitor

**Case color**

Black

**Type-model**

60E3GAR1US / 60E3GAT1EU

**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" (596.7mm x 335.7mm)

**Optimum resolution**

3840x2160

**Max pixel rate**

600MHz

**Aspect ratio**

16:9

**Pixel pitch (mm)**

0.16 x 0.16mm

**Brightness**

300 nits or cd/m² (typical)

**Contrast ratio**

1300:1 (typical)

**Pixel response time**

6ms

**Color gamut**

99%

**Viewing angle at 10:1 CR**

178° horizontal, 178° vertical

**Stand**

Tilt, swivel, pivot, and height adjustable stand

**Bezel width**

Sides: 0.088" (2.23mm)

**Dimensions**

(HxWxD, including stand) 472.3mm H x 614.5mm W x 299.9mm D

**Power supply**

40 watts typical, 70 watts maximum (with USB), <0.5 watts sleep/standby, <0.5 watts switch off

**Weight**

15.12 lb; 6.86kg (including stand)

**Limited warranty**

3 year

**Available date**

March 2016

**VESA-compliant**

VESA DDC2B/Ci

**Power management**

ENERGY STAR® 7.0

**Ergonomics**

ISO 9241-307

**Emission standards**

FCC Class B

**TCO Displays 7.0, RoHS, EPEAT™ Gold rating, ULE Gold**

**Preset resolutions**

VGA: 640x350, 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**

Tilt: 30° back, -5° forward; lift: 3.15" (80mm); 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 (touch buttons on front) for menu, mute, volume up/down, and brightness

**USB hub**

USB Hub: one USB 3.0 upstream port, four USB 3.0 downstream ports

**Multimedia**

Integrated stereo speakers (3 watts x 2)

**Camera**

None

**Multiple input**

Support HDMI, DisplayPort

**Monitor connectors**

(1) HDMI (2.0), digital, HDCP-compliant

(2) DisplayPort (1.2), digital, HDCP-compliant

**Signal cables**

(1) detachable, DisplayPort at each end, digital, 1.8 meters

**Mounting features**

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

**Security**

Secured 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 USB 3.0 cable, 1.8 meter black power cord, mini DP to DP adapter, power adapter (90W)

**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)

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**Features**

- 27-inch IPS LED backlit monitor with speaker
- Supports 3840x2160 resolution
- 5-Ports USB hub, support USB 3.0
- 3watts x 2 stereo speakers
- Microsoft® Windows® 7 certified
- Microsoft Windows 10 certified
**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>
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<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>
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<tr>
<td>Max pixel rate</td>
<td>300MHz</td>
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<tr>
<td>Aspect ratio</td>
<td>16:9</td>
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<tr>
<td>Pixel pitch (mm)</td>
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<tr>
<td>Dot/Pixel per inch</td>
<td>109 dpi</td>
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<tr>
<td>Brightness</td>
<td>350 nits or cd/m² (typical)</td>
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<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
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<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:</td>
</tr>
<tr>
<td>(HxWxD, including stand)</td>
<td>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>
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<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/Ci</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® 7.0</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, RoHS, EPEAT™ Gold rating, ULE Gold</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>
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<td>WXGA+: 1440x900, 1680x900</td>
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<td></td>
<td>WSXGA+: 1680x1050</td>
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<td></td>
<td>Full HD: 1920x1080, 1920x1200</td>
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<td></td>
<td>QHD: 2560x1440</td>
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<tr>
<td>Presets display modes</td>
<td>HDMI: 22; DP: 14</td>
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<tr>
<td>Viewing adjustments</td>
<td>Tilt: 30° back, -5° forward; lift: 4.33° (110mm); swivel: +/-45°</td>
</tr>
<tr>
<td>Rotating screen</td>
<td>Screen pivots 90 degrees from landscape to portrait</td>
</tr>
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</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>USB Hub: one USB 3.1 Type-C upstream port, four USB 3.0 Type-A downstream ports</td>
</tr>
<tr>
<td>Multimedia</td>
<td>Audio-out, optional sound bar supported</td>
</tr>
<tr>
<td>Camera</td>
<td>None</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Support HDMI, DisplayPort, USB 3.1 Type-C, DisplayPort-out</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) 2*HDMI (1.4), digital, HDCP-compliant</td>
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<td></td>
<td>(2) DisplayPort (1.2), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(3) DisplayPort-out, digital</td>
</tr>
<tr>
<td></td>
<td>(4) USB 3.1 Type-C</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) USB 3.1 Type-C cable, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMI® (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, detachable stand, Quick start and safety poster, 1.8 meter USB 3.1 Type-C cable, 1.8 meter black power cord</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Kensington MicroSaver Cable Lock 73P2582</td>
</tr>
<tr>
<td></td>
<td>Kensington Twin Head Cable Lock 45K1620</td>
</tr>
<tr>
<td></td>
<td>Lenovo Security Cable Lock 57Y4303</td>
</tr>
<tr>
<td></td>
<td>See details at <a href="http://www.lenovo.com/support/monitoraccessories">www.lenovo.com/support/monitoraccessories</a></td>
</tr>
<tr>
<td></td>
<td>See all monitors at <a href="http://www.lenovo.com/thinkvision">www.lenovo.com/thinkvision</a></td>
</tr>
</tbody>
</table>
### Lenovo ThinkVision P27u

**Name**

P27u Wide Flat Panel Monitor

**Case color**

Black

**Type-model**

61CBGAR1US / 61CBGAT1EU / 61CBGAR1EU / 61B0GAR1US / 61B0GAT1EU

**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)**

0.1554 x 0.1554mm

**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: 0.08" (2mm)

**Dimensions**

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
- WUXGA+: 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
- (1) detachable, DisplayPort to DisplayPort, digital, 1.8 meter

**Signal cables**

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

**Mounting features**

- 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)

Lenovo

August 2017
## Environmental Compliance

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>0°C - 40°C</td>
</tr>
<tr>
<td>Operating</td>
<td>Non-Operating</td>
</tr>
<tr>
<td>Non-Operating</td>
<td>20°C - 60°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>Operating</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>Operating</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;25 g Plastic Parts</td>
</tr>
</tbody>
</table>

## Specifications

### Display

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</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>Anti-Glare</td>
<td>Yes</td>
</tr>
<tr>
<td>Screen Dimensions (W x H) (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>

### Power Consumption

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</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>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Input Signals</td>
<td>2 x HDMI™ 2.0 + DisplayPort™, 1.2 + Thunderbolt™ 3.0-In + Thunderbolt™ 3.0-Out</td>
</tr>
<tr>
<td>Video Cables Supplied</td>
<td>HDMI™, DisplayPort™, Thunderbolt™ 3.0</td>
</tr>
<tr>
<td>Video Cable Length</td>
<td>2 m for Thunderbolt™, 1.8 m for 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>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Frequency</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™: 600 MHz, DisplayPort™: 5.4 Gbps 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>Specification</th>
<th>Value</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>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>2 / 0.08&quot;</td>
</tr>
<tr>
<td>Top (mm / inches)</td>
<td>23.8 / 0.94&quot;</td>
</tr>
<tr>
<td>Bottom (mm / inches)</td>
<td>2 / 0.08&quot;</td>
</tr>
</tbody>
</table>

### Compliance

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENERGY STAR® Rating</td>
<td>7.0</td>
</tr>
<tr>
<td>Windows Certification</td>
<td>TCO 7.0 / TCO Edge 2.0</td>
</tr>
<tr>
<td>China Energy Efficiency Standard</td>
<td>Windows 7 / Windows 10</td>
</tr>
<tr>
<td>Tier</td>
<td>2</td>
</tr>
</tbody>
</table>

### Warranty and Availability

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warranty</td>
<td>3 Years</td>
</tr>
<tr>
<td>Geography Availability</td>
<td>WW</td>
</tr>
</tbody>
</table>
Lenovo ThinkVision Pro2820 Wide

Name: ThinkVision Pro2820 Monitor

Features:
- 28-inch MVA (Multi-domain Vertical Alignment) panel LED backlight monitor
- Supports 1920x1080 resolution
- 5-Ports USB hub, support USB 3.0
- Arsenic/Mercury free
- Microsoft Windows 7
- Windows 8/Windows 8.1 certified

Specifications:

- 28" (711mm) diagonal
- Viewable image size: 24.44" x 13.44" (620.9mm x 341.3mm)
- Optimum resolution: 1920x1080
- Frequency: Supports 1920 x 1080 @ 60Hz
- Aspect ratio: 16:9
- Pixel pitch (mm): 0.32 x 0.32mm
- Brightness: 300 nits or cd/m² (typical)
- Contrast ratio: 3000:1 (typical)
- Pixel response time: 6.5ms
- Color gamut: 72%
- Viewing angle at 10:1 CR: 178° horizontal, 178° vertical
- Stand: Tilt, swivel, and height adjustable stand
- Bezel width: Sides: 0.86" (21.85mm)
- Dimensions: 17.45" H x 26.21" W x 11.41" D
- Power supply: 65 watts typical, 90 watts typical (with USB)
- Weight: 17.84 lb; 8.11kg (including stand)
- Limited warranty: 3 year

VESA-compliant: VESA DD2C2B/C1
Power management: ENERGY STAR® 6.0
Ergonomics: ISO 9241-307
Emission standards: FCC Class B
Environmental: TCO Displays 6.0, TCO Certified Edge 1.2, RoHS,
EPEAT Gold rating, ULE Gold

Preset resolutions:
- VGA: 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768, 1024x760
- SXGA: 1280x1024
- WXGA: 1280x720, 1280x800, 1366x768
- WXGA+: 1440x900, 1600x900
- WSXGA+: 1680x1050
- Full HD: 1920x1080
- Others: 1152x864

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

Viewing adjustments:
- Tilt: 25° 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)
- Direct access (touch buttons on front) for automatic image setup, input switch, and brightness

USB hub:
- USB Hub: one USB 3.0 upstream port, four USB 3.0 downstream ports

Multimedia:
- None

Camera:
- None

Multiple input:
- Support VGA, HDMI, DisplayPort, MHL connections (Mobile High-definition Link)

Monitor connectors:
- (1) VGA 15-pin D-shell, analog
- (2) HDMI (1.4), digital, HDCP-compliant
- (3) DisplayPort (1.2), digital, HDCP-compliant
- (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 meeting the VESA FPMPM™ (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 VGA cable, 1.8 meter USB 3.0 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
August 2014
## ThinkVision® T27i-10

### DISPLAY

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Size</td>
<td>27 inch</td>
</tr>
<tr>
<td>Screen Dimensions (H x V) (mm)</td>
<td>597.89 (H) x 336.31 (V)</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>1920 x 1080</td>
</tr>
<tr>
<td>Pixel Pitch (H x V) (mm)</td>
<td>0.3110 x 0.3110</td>
</tr>
<tr>
<td>Viewing angle (H x V)</td>
<td>178°/178°</td>
</tr>
<tr>
<td>Response Time (gray to gray)</td>
<td>4 ms (extreme mode) 6 ms (normal mode)</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>Color Gamut NTSC (CIE 1931)</td>
<td>72%</td>
</tr>
<tr>
<td>Color Support</td>
<td>16.7M</td>
</tr>
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</table>

### USB Hub

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>1 x USB 3.0 (Upstream) 4 x USB 3.0 (Downstream, incl. 18C)</td>
</tr>
</tbody>
</table>

### Cable Length

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.8 m</td>
<td></td>
</tr>
</tbody>
</table>

### Audio Out

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>(3.5 mm)</td>
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</tbody>
</table>

### Power Consumption

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>22W (Typical) / 58W (max) at On mode; &lt;0.5W at Sleep mode; &lt;0.3W at Switch off mode</td>
<td></td>
</tr>
</tbody>
</table>

### MULTIMEDIA

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional Soundbar Support</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### PANEL TYPE

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-Plane Switching</td>
<td></td>
</tr>
</tbody>
</table>

### CONNECTIVITY

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Input Signals</td>
<td>VGA + HDMI 1.4 + DP 1.2</td>
</tr>
</tbody>
</table>

### MECHANICAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</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°/+45°</td>
</tr>
<tr>
<td>Lift (Max range)</td>
<td>110 mm</td>
</tr>
<tr>
<td>Pivot</td>
<td>-90°/90°</td>
</tr>
<tr>
<td>VESA Mount</td>
<td>Yes (100 mm)</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 (Side)</td>
<td>2.0 mm</td>
</tr>
</tbody>
</table>

### SPECIAL FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-Glare</td>
<td>Yes</td>
</tr>
<tr>
<td>Thin Client Support (Tiny)</td>
<td>Yes (by Tiny Clamp Bracket Kit+VESA mount PN:4XF0N82412+ PN:4XF0N03161)</td>
</tr>
</tbody>
</table>

### WHAT’S IN THE BOX

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</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 DP-DP cable</td>
<td>1 x DP-DP cable</td>
</tr>
<tr>
<td>1 x HDMI cable (NA only)</td>
<td>1 x HDMI cable (NA only)</td>
</tr>
<tr>
<td>1 x USB 3.0 cable</td>
<td>1 x USB 3.0 cable</td>
</tr>
<tr>
<td>Quick setup guide</td>
<td>Quick setup guide</td>
</tr>
</tbody>
</table>

### CERTIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENERGY STAR Rating</td>
<td>7.0</td>
</tr>
<tr>
<td>CCC</td>
<td>Yes</td>
</tr>
<tr>
<td>TCO</td>
<td>7.0</td>
</tr>
<tr>
<td>EPEAT™ Gold</td>
<td>Gold</td>
</tr>
<tr>
<td>ULE Gold</td>
<td>Gold</td>
</tr>
<tr>
<td>Windows Certification</td>
<td>Windows 7, Windows 10</td>
</tr>
<tr>
<td>China Energy Efficiency Standard</td>
<td>Tier 2</td>
</tr>
<tr>
<td>Ambient Operating Temperature</td>
<td>0°C to 40°C</td>
</tr>
<tr>
<td>Eye Comfort Certification</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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

#### Name
X1 Wide Flat Panel Monitor

#### Case color
Black

#### Type-model
60E2GAR1US / 60E2GAT1US / 60E2GAT1EU

#### 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" (596.7mm x 335.7mm)

#### Optimum resolution
3840x2160

#### Max pixel rate
600MHz

#### Aspect ratio
16:9

#### Pixel pitch (mm)
0.16 x 0.16mm

#### Brightness
300 nits or cd/m² (typical)

#### Contrast ratio
1300:1 (typical)

#### Pixel response time
6ms

#### Color gamut
99%

#### Viewing angle at 10:1 CR
178° horizontal, 178° vertical

#### Stand
Tilt stand

#### Bezel width (HxWxD, including stand)
491.4mm H x 614.5mm W x 270.0mm D

#### Power supply
40 watts typical, 130 watts maximum (with USB), <0.5 watts sleep/offset, <0.5 watts switch off

#### Weight
14.11 lb; 6.40kg (including stand)

#### Limited warranty
3 year

#### Available date
March 2016

#### VESA-compliant
VESADDC2B/CJ

#### Power management
ENERGY STAR® 7.0

#### Ergonomics
ISO 9241-307

#### Emission standards
FCC Class B

#### Environmental
TCO Displays 7.0, RoHS, EPEAT™ Silver rating, ULE Gold

#### Preset resolutions
- VGA: 640x350, 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
- Tilt: 22° back, -5° forward;
- Rotating screen: None
- On screen display: On screen display with digital user controls (8 languages)
- 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
  (2) DisplayPort (1.2), digital, HDCP-compliant
- Signal cables: (1) detachable, HDMI at each end, digital, 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 meeting the VESA FPMPMI™ (100mm mount) 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)

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*See footnotes for important warranty information*
**SPECIFICATIONS**

**DISPLAY**
- Panel Size: 27"
- Panel Type: In-Plane Switching
- Brightness: 3840 (H) x 2160 (V)
- Aspect Ratio: 16:9
- Anti-Glare: Yes
- Screen Dimensions (W x H) (mm): 596.7 (H) x 335.7 (V)
- Maximum Brightness (Typical): 350 cd/m²
- Viewing Angle (H/V at CR 10:1): 178°/178°
- Contrast Ratio (Typical): 1000:1
- Dynamic Contrast Ratio: 3M:1
- Pixel Pitch (W x H) (mm): 0.1554 x 0.1554
- Dot/Pixel Per Inch (DP/PPI): 163
- Color Gamut (CIE 1931): 99% sRGB
- Response Time (Extreme/Typical/Off): 4/16/4 ms (G-to-G)

**MECHANICAL**
- Tilt Angle (Front / Back): -5° / 30°
- Swivel Angle (Left / Right): N/A
- Lift (mm): N/A
- Pivot: N/A
- VESA® Mount (mm): N/A
- Kensington® Lock Slot: Yes
- Cable Management: Yes
- Bezel Color: N/A
- Bezel Width: N/A

**SIGNAL INTERFACE / PERFORMANCE**
- Horizontal Frequency: 30 kHz – 60 kHz
- Vertical Frequency: 23 Hz – 80 Hz
- Native Resolution: 3840 x 2160
- Maximum Pixel Clock Speed/ Bandwidth: 20 Gbps
- Default Color Temperature: 6500K
- Preset Modes: 24
- OSD Buttons: 2 Buttons + Tracking Point
- OSD Languages: English, French, Italian, German, Spanish, Japanese, Chinese, Russian

**POWER CONSUMPTION**
- Typical: 65 W
- Maximum: 135 W
- Sleep-Mode: 0.5 W
- Switch Off-Mode: 0.5 W
- Power Supply: External
- Power Voltage: 90 VAC – 264 VAC
- Voltage Dynamic Frequency: 47 Hz – 63 Hz

**ENVIRONMENTAL**
- Temperature
  - Operating: 0°C – 45°C
  - Non-Operating: -20°C – 60°C
- Humidity
  - Operating: 8% – 80%
  - Non-Operating: 5% – 95%
- Altitude
  - Operating: 16,000 ft
  - Non-Operating: 40,000 ft
- Arsenic-Free Glass: Yes
- PVC-Free: N/A
- Mercury-Free: Yes
- PCC % of Plastic Resins: 25%

**COMPLIANCE**
- EPEAT™: Silver
- ENERGY STAR® Rating: 7.0
- ULE: Silver
- TCO®: 7.0
- RoHS (EU 2002/95/EC): Yes
- Windows Certification: Windows 7 / Windows 10
- China Energy Efficiency Standard: Tier 2

**DIMENSIONS (W x D x H)**
- Size Packed (mm / inches): 718 x 140 x 470 / 28.27" x 5.51" x 18.5"
- Size Unpacked with Stand (mm / inches): 609.74 x 234.81 x 474.76 / 24" x 9.24" x 18.69"
- Size Unpacked without Stand (Monitor Head Only) (mm / inches): 609.74 x 32.7 x 351.71 / 24" x 1.29" x 13.85"
- Distance from Table to Panel
  - Lowest Pixel at Bottom of Screen (mm / inches): 9.55 / 0.376"
  - Highest Pixel at Top of Screen (mm / inches): 6.5 / 0.256"
  - Stand Base Footprint Area (mm / inches): 234.66 x 234.66 / 9.24" x 9.24"
- Weight
  - Packed: Starting at < 1 lbs (< 0.45 kg)
  - Unpacked: Starting at 12.32 lbs (5.59 kg)
  - Monitor Head Only: Starting at 9.46 lbs (4.29 kg)

**WARRANTY AND AVAILABILITY**
- Warranty: 3 Years
- Geographic Availability: WW

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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.