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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.

January 28, 2015 - Version 467

Additions in this update

► New product(s)
  Lenovo ThinkVision T2014 new product announced

► Others
  None

Changes in this update

► None

Withdrawals in this update

► None
### Lenovo ThinkVision E1922 Wide

**Name**
*Blenovo Wide Flat Panel Monitor*

**Case color**
Business black

**Type-model**
60B8AA06US

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

**Viewable image size**
18.5" (470mm) diagonal

**Max view area (W x H)**
16.1" x 9.1" / 409.8mm x 230.4mm

**Native resolution**
1366x768

**Aspect ratio**
16:9

**Pixel pitch (mm)**
0.300mm

**Dot/Pixel per Inch**
85 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: 0.73" (18.5mm)

**Dimensions (HxWxD)**
13.44" H x 17.65" W x 6.58" D;
341.5mm H x 448.44mm W x 167.2mm D

**Power supply**
13.7 watts typical, 17 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**
6.03 lb; 2.74 kg

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

**Available date**
March 2014

**VESA-compliant**
VESA DPMS-compliant

**Power management**
ENERGY STAR® 6.0

**Ergonomics**
ISO 9241-307

**Emission standards**
FCC Class B

**Environmental**
TCO (TCO Displays 6.0), WEEE, RoHS, EPEAT® Gold rating

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

**Presets / user settings**
- Standard presets: 15
- user settings: 16

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

**Rotating screen**
None

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

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

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**Limited Warranty**

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**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 E2223s Wide

#### Name
E2223s Wide Flat Panel Monitor

#### Case color
Business black

#### Type-model
60AFHAR1US

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

#### Viewable image size
21.5\* (546mm) diagonal

#### Max view area (W x H)
18.7" x 10.5" / 476.1mm x 267.8mm

#### Native resolution
1920x1080

#### Aspect ratio
16:9

#### Pixel pitch (mm)
0.248mm

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

#### Contrast ratio
600:1 (typical)

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

#### Color gamut
72%

#### Viewing angle at 10:1 CR
90° (+/- 45°) horizontal, 50° (+/- 25°) vertical

#### Stand
Tilt adjustable stand

#### Bezel width
Sides: 0.72" (18.3mm)

#### Dimensions (HxWxD)
14.94" H x 20.60" W x 6.58" D

#### Power supply
19 watts typical, 22 watts maximum, integrated (no external brick-like power supply)

#### Weight
7.52 lb; 3.4 kg

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

#### Available date
March 2014

#### Power management
ENERGY STAR® 6.0

#### Ergonomics
ISO 9241-307

#### Emission standards
FCC Class B

#### Environmental
WEEE, RoHS, EPEAT™ SILVER rating

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

#### Presets / user settings
- Standard presets: 26
- User settings: 26

#### Viewing adjustments
- Tilt: 22° backward, -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, 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) 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 with stand, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter black power cord

### Features
- Widescreen 21.5-inch monitor
- Supports FHD 1920x1080 resolution
- Supports VESA mount (100mm)
- Kensington lock slot ready for enhanced security
- Microsoft® Windows® 7 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

See footnotes for important warranty information

US model announced February 18, 2014

© Lenovo (E2223s) March 2014
### Lenovo ThinkVision E2323 Wide

**Name**  
E2323 Wide Flat Panel Monitor

**Case color**  
Business black

**Type-model**  
60B0HAR1US

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

**Viewable image size**  
23" (584mm) diagonal

**Max view area (W x H)**  
20.0" x 11.3" / 509.2mm x 286.4mm

**Native resolution**  
1920x1080

**Aspect ratio**  
16:9

**Pixel pitch (mm)**  
0.265mm

**Dot/Pixel per Inch**  
96 dpi

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

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

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

**Color gamut**  
72%

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

**Stand**  
Tilt adjustable stand

**Bezel width**  
Sides: 0.73" (18.6mm)

**Dimensions (HxWxD)**  
15.70" H x 21.59" W x 6.58" D; 399.0mm H x 549.5mm W x 167.2mm D

**Power supply**  
21 watts typical, 26 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight**  
7.86 lb; 3.55 kg

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

**Available date**  
January 2014

**Power management**  
ENERGY STAR® 6.0

**Ergonomics**  
ISO 9241-307

**Emission standards**  
FCC Class B

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

**Preset resolutions**

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

**Presets / user settings**

- Standard presets: 26
- User settings: 26

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

**Rotating screen**  
None

**On screen display**  
Direct access (buttons on front) for automatic image setup, dual input and brightness

**Control features**  
Digital user controls (8 languages)

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

**Monitor connectors**

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

**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 with stand, 1.8 meter analog signal cable, 1.8 meter DVI-D cable, 1.8 meter black power cord

### Features

- Widescreen 23-inch monitor
- Supports FHD 1920x1080 resolution
- Supports VESA mount (100mm)
- Kensington lock slot ready for enhanced security
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 / Windows 8.1 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)

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**Limited Warranty**


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© Lenovo (E2323) March 2014
### Lenovo ThinkVision LT1421 Wide Mobile Monitor

**Name**
- LT1421 Wide Mobile Monitor

**Case color**
- Raven black

**Type-model**
- 1452-DS6 (with Protective Screen Cover)

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

**Viewable image size**
- 14.0" (355.6mm) diagonal

**Max view area (W x H)**
- 12.2" x 6.9" (310.8mm x 175.3mm)

**Optimum resolution**
- 1366x768

**Aspect ratio**
- 16:9

**Pixel pitch (mm)**
- 0.272mm

**Brightness**
- 200 nits or cd/m² (typical)

**Contrast ratio**
- 400:1 (typical)

**Pixel response time**
- 8ms (typical)

**Color gamut**
- 45%

**Viewing angle at 10:1 CR**
- 90° (+/- 45°) horizontal, 50° (+/- 25°) vertical

**Stand**
- Tilt adjustable stand

**Bezel width**
- 0.476" (12.1mm)

**Dimensions (HxWxD)**
- 8.58" H x 13.19" W x 0.37-0.85" D;
- 217.9mm H x 335mm W x 9.3-21.5mm D

**Power supply**
- 4.2 watts typical, 5 watts maximum,
- <0.1 watts standby/suspend, universal,
- USB 2.0 cable (no external brick-like power supply)

**Weight**
- Monitor only: 1.91 lb; 0.87 kg;
- with Protective Screen Cover: 2.31 lb; 1.05 kg

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

**Available date**
- September 2011

**VESA-compliant**
- VESA DDC2B/Ci, VESA DPMS-compliant

**Power management**
- ENERGY STAR® 5.1

**Emission standards**
- FCC Class B

**Environmental**
- WEEE, RoHS

**Preset resolutions**
- Display mode and resolution auto setup

**Protective Screen Cover**
- Polycarbonate Snap-On Cover protects the LCD Screen while not in use

**Viewing adjustments**
- Tilt: 12° - 40° backward

**Screen control**
- Brightness (16 levels)

**Input**
- USB input

**Monitor connectors**
- USB 2.0

**Signal cables**
- Detachable, USB Type Y cable, 1.8 meter

**Mounting features**
- None

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

**Ship group**
- Monitor, attached tile stand that cannot be removed, Setup poster, Safety and Warranty Information, CD with multilingual User’s Guide and monitor installation files, 1.8 meter USB Y-Type cable, Protective Screen Cover

### Limited Warranty

- 3 year limited warranty
- International Warranty Service
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims
- Service upgrade options:
  - 3 year, on site exchange, Mon-Fri 9-5 with next day response (Lenovo Services part number 41C9209)
  - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
  - 4 year, mail exchange (51J0569)
  - 5 year, mail exchange (51J0590)
- 24x7 day toll-free support for warranty issues during the warranty period

### 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)**

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See footnotes for important warranty information

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US model announced August 16, 2011

(LT1421) November 2011
Lenovo ThinkVision LT1423p Mobile Touch Monitor (Wired)

Name: LT1423p Mobile Touch Monitor w/pen
Case color: Raven black
Type-model: 60A3UAR2US (with Digitizer pen)
Panel: TFT-LCD, AH-IPS, White LED backlight
Viewable image size: 13.3" (337.8mm) diagonal
Max view area (W x H): 11.57" x 6.50" (293.8mm x 165.2mm)
Optimum resolution: 1600x900
Aspect ratio: 16:9
Pixel pitch (mm): .184mm
Brightness: 200 nits or cd/m² (typical)
Contrast ratio: 500:1 (typical)
Pixel response time: 35ms (typical)
Color gamut: 45%
Viewing angle at 10:1 CR: 150° (+/- 75°) horizontal, 150° (+/- 75°) vertical
Stand: Build in typing stand
Bezel width: Sides: 1.04" (26.5mm); top: 1.16" (29.5mm); bottom: 1.16" (29.5mm)
Dimensions (HxWxD): 8.87" H x 13.70" W x 0.26-0.50" D; 225.4mm H x 348.0mm W x 6.7-12.7mm D
Power supply: 6.0 watts typical, 7.0 watts maximum, <1.5 watts standby/suspend, universal, USB 3.0 cable (no external brick-like power supply)
Weight: 1.87 lb; 0.85 kg
Limited warranty: 3 year (includes backlight)
Available date: September 2013

Features
- Widescreen 13.3-inch mobile Touch monitor
- Supports 10-point touch
- Supports ThinkPad Digitizer pen
- Supports 1600x900 resolution
- Detachable USB cable for power and signal
- Arsenic/Mercury free
- Microsoft® Windows® 7 certified
- Microsoft® Windows® 8 certified

VESA-compliant: None
Power management: None
Emission standards: FCC Class B
Environmental: RoHS
Preset resolutions:
- SVGA: 800x600
- XGA: 1024x768
- SXGA: 1280x1024
- WXGA: 1280x720, 1280x800, 1366x768
- WXGA+: 1440x900, 1600x900

Presets / user settings: 7

Build in typing Stand: Yes
Touch Screen: 10-point touch
Digitizer Pen: ThinkPad Digitizer pen
Input: USB input
Monitor connectors: USB 3.0
Signal cables: detachable, USB to mini-USB cable, 100cm
detachable, USB Y-Type cable, 45cm
Mounting features: None
Security: Security keyhole for attachment of optional cable lock
(Kensington® lock-compatible)
Protective glass layer: Gorilla glass
Simple Cover Stand: Yes
Digital Control key: 3 digital control keys
Battery: None

Ship group: Monitor, build in typing stand that cannot be removed, Setup poster, Safety and Warranty Information, 100cm USB to mini-USB cable, 45cm USB Y-Type cable, Simple Cover Stand, ThinkPad Digitizer pen

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
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>LT1423p Mobile Touch Monitor w/pen (Wireless)</td>
</tr>
<tr>
<td>Case color</td>
<td>Raven black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60ACUAR2US (with Digitizer pen)</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, AH-IPS, White LED backlight</td>
</tr>
<tr>
<td>Viewable image size (W x H)</td>
<td>13.3” (337.8mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>11.57” x 6.50” (293.8mm x 165.2mm)</td>
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<tr>
<td>Optimum resolution</td>
<td>1600x900</td>
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<tr>
<td>Aspect ratio</td>
<td>16:9</td>
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<tr>
<td>Pixel pitch (mm)</td>
<td>184mm</td>
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<td>Dot/Pixel per Inch</td>
<td>138 dpi</td>
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<td>Brightness</td>
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<td>Contrast ratio</td>
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<tr>
<td>Pixel response time</td>
<td>35ms (typical)</td>
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<tr>
<td>Color gamut</td>
<td>45%</td>
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<tr>
<td>Viewing angle at 10:1 CR</td>
<td>150° (+/- 75°) horizontal, 150° (+/- 75°) vertical</td>
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<tr>
<td>Stand</td>
<td>Build in typing stand</td>
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<tr>
<td>Bezel width</td>
<td>Sides: 1.04” (26.5mm)</td>
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<tr>
<td></td>
<td>top: 1.16” (29.5mm)</td>
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<tr>
<td></td>
<td>bottom: 1.16” (29.5mm)</td>
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<tr>
<td>Dimensions (HxWxD)</td>
<td>8.87” H x 13.70” W x 0.50” D:</td>
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<tr>
<td></td>
<td>225.4mm H x 348.0mm W x 12.7mm D</td>
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<tr>
<td>Power supply</td>
<td>13.0 watts typical, 16.0 watts maximum,</td>
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<td></td>
<td>&lt;0.5 watts standby/suspend, universal,</td>
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<td></td>
<td>USB 3.0 cable (no external brick-like power supply)</td>
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<td>Weight</td>
<td>2.86 lb; 1.30 kg</td>
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<td>Limited warranty</td>
<td>1 year (includes backlight)</td>
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<td>Available date</td>
<td>October 2013</td>
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<td>VESA-compliant</td>
<td>None</td>
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<tr>
<td>Power management</td>
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<td>Emission standards</td>
<td>FCC Class B</td>
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<tr>
<td>Environmental</td>
<td>RoHS</td>
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<td>Preset resolutions</td>
<td>SVGA: 800x600</td>
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<td></td>
<td>XGA: 1024x768</td>
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<td></td>
<td>WXGA: 1280x720, 1280x800, 1366x768</td>
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<td>WXGA+: 1440x900, 1600x900</td>
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<td>Presets / user settings</td>
<td>7</td>
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<td>Build in typing Stand</td>
<td>Yes</td>
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<tr>
<td>Touch Screen</td>
<td>10-point touch</td>
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<td>Digitizer Pen</td>
<td>ThinkPad Digitizer pen</td>
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<td>Input</td>
<td>WiFi 802.11 a/b/g/n and USB input</td>
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<td>Monitor connectors</td>
<td>USB 3.0</td>
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<td>Signal cables</td>
<td>detachable, USB to mini-USB cable, 100cm</td>
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<td></td>
<td>detachable, USB Y-Type cable, 45cm</td>
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<tr>
<td>Mounting features</td>
<td>None</td>
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<tr>
<td>Security</td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
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<tr>
<td>Protective glass layer</td>
<td>Gorilla glass</td>
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<tr>
<td>Simple Cover Stand</td>
<td>Yes</td>
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<td>Digital Control key</td>
<td>4 digital control keys</td>
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<tr>
<td>Battery</td>
<td>8120 mAh</td>
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<td>Ship group</td>
<td>Monitor, build in typing stand that cannot be removed, Setup poster, Safety and Warranty Information, 100cm USB to mini-USB cable, 45cm USB Y-Type cable, USB WiFi dongle, Simple Cover Stand, ThinkPad Digitizer pen</td>
</tr>
</tbody>
</table>

**Limited Warranty**


**Features**

- Widescreen 13.3-inch mobile Touch monitor (Wireless)
- 8m wireless range and up to 4 hours battery
- Supports 10-point touch
- Supports ThinkPad Digitizer pen
- Supports 1600x900 resolution
- Arsenic/Mercury free
- Microsoft® Windows® 7 certified
- Microsoft® Windows® 8 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 | LT1713p Square Flat Panel Monitor  
Case color | Business black  
Type-model | 60B3HAR2US  
Panel | TFT-LCD, twisted nematic (TN), LED backlight  
Viewable image size | 17.0” (432mm) diagonal  
Max view area (W x H) | 13.3” x 10.6” (337.9mm x 270.3mm)  
Optimum resolution | 1280x1024  
Aspect ratio | 5:4  
Pixel pitch (mm) | 0.264mm  
Dot/Pixel per Inch | 96 dpi  
Brightness | 250 nits or cd/m² (typical)  
Contrast ratio | 1000:1 (typical)  
Pixel response time | 5ms (typical)  
Color gamut | 72%  
Viewing angle at 10:1 CR | 170° (+/- 85°) horizontal, 160° (+/- 80°) vertical  
Stand | Tilt height adjustable stand  
Bezel width | Sides: 0.60” (15.3mm); top: 0.73” (18.4mm); bottom: 1.10” (28.1mm)  
Dimensions (HxWxD, including stand) | 405.7mm H x 370.0mm W x 165.2mm D  
Power supply | 13.0 watts typical, 16.0 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)  
Weight | 7.90 lb; 3.60kg  
Limited warranty | 3 year  
Available date | January 2014  
VESA-compliant | VESA DDC2B/Ci, VESA DPMS-compliant  
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, WEEE; RoHS; EPEAT® Gold rating  
Preset resolutions | VGA: 640x350, 640x480, 640x500, 720x400  
SVGA: 800x600  
XGA: 1024x768, 1152x864, 1280x1024  
Preset / user settings | Standard presets: 17; user settings: 22  
Viewing adjustments | Tilt: 22° back, -3° forward; lift: 4.3” (110mm)  
Rotating screen | None  
On screen display | On screen display with digital user controls (8 languages)  
Control features | Direct access (buttons on front) for automatic image setup  
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 and stand, Setup poster, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter digital signal cable, 1.8 meter black power cord  

**Features**  
- 17-inch Square LCD monitor  
- Supports SXGA 1280x1024 resolution  
- Includes dual input connection for attachment to two systems concurrently (analog and digital)  
- Arsenic free glass  
- Supports Lenovo Tiny PC and 3rd party thin client via optional Lenovo bracket  
- Microsoft® Windows® 7 certified  
- Microsoft Windows 8 certified  
- Microsoft Windows 8.1 certified  
- VESA DDC2B/CI, VESA DPMS-compliant  
- ENERGY STAR® 6.0  
- ISO 9241-307  
- FCC Class B  
- TCO Displays 6.0, TCO Certified Edge 1.2, WEEE; RoHS; EPEAT® Gold rating  

**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 LT1913p Square

## Features
- 19-inch Square IPS LED backlit panel
- Supports 1280x1024 resolution
- Support Lenovo Tiny PC via optional Lenovo bracket
- Mercury and arsenic free glass
- Low Halogen
- Recycled content in plastic material
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 certified

## Specifications

<table>
<thead>
<tr>
<th>Name</th>
<th>Lenovo ThinkVision LT1913p Square Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case color</td>
<td>Business black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60AANR1U5</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>19&quot; (480.0mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>14.76&quot; x 11.80&quot; (374.8mm x 299.8mm)</td>
</tr>
<tr>
<td>Optimum resolution</td>
<td>1280x1024</td>
</tr>
<tr>
<td>Max pixel rate</td>
<td>205MHz (VGA), 165MHz (DVI)</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>5:4</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.0976 (H) x 0.2928 (V) 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° 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: 0.69&quot; (17.4mm); top: 0.69&quot; (17.4mm); bottom: 0.69&quot; (17.4mm)</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>14.89&quot; H x 16.18&quot; W x 8.74&quot; D; 378.33mm H x 411.0mm W x 221.9mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>24 watts typical, 27 watts maximum, &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td>Weight</td>
<td>10.03 lb; 4.55kg</td>
</tr>
<tr>
<td>Limited warranty*</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>August 2013</td>
</tr>
<tr>
<td>VESA-compliant*</td>
<td>VESA DDC2B/Ci, EDID 1.3</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® 6.0</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 6.0, TCO Certified Edge 1.1, WEEE, RoHS, EPEAT® Gold rating, ULE Gold</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x350, 640x480, 720x400</td>
</tr>
<tr>
<td></td>
<td>SVGA: 800x600, 823x624</td>
</tr>
<tr>
<td></td>
<td>XGA: 1024x768, 1152x864, 1152x900</td>
</tr>
<tr>
<td></td>
<td>SXGA: 1280x1024</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Standard presets: 20; user settings: 20</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 30° back, -5° forward; lift: 4.3” (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 (buttons on front) for automatic image setup, input switch, and brightness</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue</td>
</tr>
<tr>
<td></td>
<td>(2) Digital Visual Interface (DVI-D), digital, white, 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, DVI-D 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 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, 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</td>
</tr>
</tbody>
</table>

### Limited Warranty

### Accessories
- Kensington MicroSaver Cable Lock: 73P2582
- Kensington Twin Head Cable Lock: 45K1620
- Lenovo Security Cable Lock: 57Y4303
- Lenovo Easy Reach Monitor Stand: 59Y9258

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)

See footnotes for important warranty information

US model announced July 30, 2013
### Lenovo ThinkVision LT1952p Wide

- **Name**: LT1952p Wide Flat Panel Monitor
- **Case color**: Business black
- **Type-model**: 2448-MB6
- **Panel**: TFT-LCD, twisted nematic (TN), White LED backlight
- **Viewable image size**: 19" (482.6mm) diagonal
- **Max view area (W x H)**: 16.07" x 10.05" (408.2mm x 255.2mm)
- **Optimum resolution**: 1440x900
- **Max pixel rate**: 137MHz
- **Aspect ratio**: 16:10
- **Pixel pitch (mm)**: 0.2835mm
- **Dot/Pixel per Inch**: 89.4 dpi
- **Brightness**: 250 nits or cd/m² (typical)
- **Contrast ratio**: 1000:1 (typical)
- **Pixel response time**: 5ms (typical)
- **Color gamut**: 72%
- **Anti-reflective**: Anti-reflective, anti-glare
- **Viewing angle at 10:1 CR**: Tilt, swivel, and height adjustable stand
- **Stand**: Sides: 0.61" (15.6mm); top: 0.67" (17.1mm); bottom: 1.2" (30.5mm)
- **Dimensions (HxWxD)**: 15.66-19.99" H x 17.36" W x 6.74" D; 397.7-507.7mm H x 440.9mm W x 171.3mm D
- **Power supply**: 13 watts typical, 17 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)
- **Weight**: 9.49 lb; 4.30kg
- **Limited warranty**: 3 year (includes backlight)
- **Available date**: September 2011
- **VESA-compliant**: VESA DDC2B/C1
- **Power management**: ENERGY STAR® 5.1
- **Ergonomics**: ISO 9241-307
- **Emission standards**: MPR-2, FCC Class B
- **Environmental**: TCO Displays 5.2, TCO Certified Edge 1.1, WEEE, RoHS, EPEAT Gold rating, ULE Gold
- **Presets / user settings**: Standard presets: 22; user settings: 22
- **Viewing adjustments**: Tilt: 20° back, -3° forward; lift: 4.3" (110mm); swivel: +/-180°; 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, input switch, and brightness
- **Multiple input**: Triple input (three different PCs attach to three 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; (3) 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
- **3 year limited warranty**
- **International Warranty Service**
- **Replacement normally arrives in two business days, excluding holidays**
- **Lenovo pays all shipping costs for valid warranty claims**
- **Service upgrade options**:
  - 3 year, on site exchange, Mon-Fri 9-5 with next day response (Lenovo Services part number 41C9209)
  - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
  - 4 year, mail exchange (51J0589)
  - 5 year, mail exchange (51J0590)
- **24x7 day toll-free support for warranty issues during the warranty period**

### Accessories
- **DisplayPort to DisplayPort Monitor Cable**: 0A36537
- **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)

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**Features**
- Widescreen 19-inch monitor
- Supports 1440x900 resolution
- Ergonomic stand tilts, swivel, and provides a 4.3" (110mm) range height adjustment for comfortable viewing
- Cable Management for better user experience
- Mercury and arsenic free glass
- Recycled content in plastic material
- Privacy Filter Slot
- Microsoft® Windows® 7 certified
## Lenovo ThinkVision LT1953 Wide Monitor

### Product Specifications Reference (PSREF)

**Name:** LT1953 Wide Flat Panel Monitor
**Case color:** Business black
**Type-model:** 1453-HB1 (Latin America)
**Panel:** TFT-LCD, twisted nematic (TN), White LED backlight
**Viewable image size:** 19" (482.6mm) diagonal
**Max view area (W x H):** 16.07" x 10.05" (408.2mm x 255.2mm)
**Optimum resolution:** 1440x900
**Max pixel rate:** 205MHz(VGA), 165MHz(DVI)
**Aspect ratio:** 16:10
**Pixel pitch (mm):** 0.2835mm
**Dot/ Pixel per inch:** 89.4 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° horizontal, 160° vertical
**Stand:** Tilt stand
**Bezel width:** Sides: 0.66" (16.8mm); top: 0.66" (16.8mm); bottom: 0.66" (16.8mm)
**Dimensions (HxWxD, excluding stand):** 290.2mm H x 443.2mm W x 19.9mm D
**Dimensions (HxWxD, including stand):** 354.0mm H x 443.2mm W x 60.7mm D
**Power supply:** 17 watts typical, 20 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)
**Weight:** 6.61 lb; 3.00kg
**Limited warranty:** 3 year (includes backlight)
**Available date:** March 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 1.1, WEEE, RoHS, EPEAT Gold rating, ULE Gold

**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 (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 FPMPM1® (100mm mount)

**Security**

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

**Ship group**

- Monitor, tilt 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

- 3 year limited warranty
- International Warranty Service
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims
- Service upgrade options:
  1. 3 year, on site exchange, Mon-Fri 9-5 with next day response (Lenovo Services part number 41C9209)
  2. 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
  3. 4 year, mail exchange (51J0589)
  4. 5 year, mail exchange (51J0590)
- 24x7 day toll-free support for warranty issues during the warranty period

### Accessories

- Kensington MicroSaver Cable Lock
- Kensington Twin Head Cable Lock
- Lenovo Security Cable Lock
- See details at www.lenovo.com/support/monitoraccessories
- See all monitors at www.lenovo.com/thinkvision

See footnotes for important warranty information

Latin America model announced March 5, 2013 (This model is not available in the US)
### Lenovo ThinkVision LT2013p Wide

<table>
<thead>
<tr>
<th>Name</th>
<th>LT2013p Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case color</td>
<td>Business black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60A0MAR1US</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, twisted nematic (TN), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>19.5&quot; (494mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>17.05&quot; x 9.44&quot; / 433.0mm x 239.8mm</td>
</tr>
<tr>
<td>Optimum resolution</td>
<td>1600x900</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>27mm</td>
</tr>
<tr>
<td>Dot/Pix per Inch</td>
<td>94 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>5ms (typical)</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>170° (+/- 85°) horizontal, 160° (+/- 80°) vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt, swivel, pivot, and height adjustable stand (toolless detachable)</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.66&quot; (16.8mm); top: 0.66&quot; (16.8mm); bottom: 0.66&quot; (16.8mm)</td>
</tr>
<tr>
<td>Dimensions (h x w x d)</td>
<td>10.82&quot; H x 18.39&quot; W x 2.07&quot; D</td>
</tr>
<tr>
<td>(excluding stand)</td>
<td>274.8mm H x 467.0mm W x 52.8mm D</td>
</tr>
<tr>
<td>Dimensions (h x w x d)</td>
<td>13.25&quot; H x 18.39&quot; W x 7.87&quot; D</td>
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<tr>
<td>(including stand)</td>
<td>336.5mm H x 467.0mm W x 200.0mm D</td>
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<tr>
<td>Power supply</td>
<td>17 watts typical, 36 watts maximum, &lt;1.0 watts sleep/off (w/o USB hub); &lt;0.5 watts switch off (w/o USB hub)</td>
</tr>
<tr>
<td>Weight</td>
<td>9.70 lbs; 4.40kg (excluding stand)</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>March 2013</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/Ci, VESA DPMS-compliant</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® 6.0</td>
</tr>
<tr>
<td>Ergonomics</td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td>Environmental</td>
<td>TCO Displays 6.0, TCO Certified Edge 1.1, RoHS, EPEAT™ Gold rating</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x350, 640x480, 720x400, SVGA: 800x600, 832x624, XGA: 1024x768, 1152x864, SXGA: 1280x1024, WXGA: 1366x768, WXGA+: 1440x900, WUXGA+: 1600x900</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Presets: 24; user settings: 24</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 (requires image rotation support from graphics controller, do not support image rotation under dual image modes)</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, input switch, and brightness</td>
</tr>
<tr>
<td>USB hub</td>
<td>USB 2.0 Hub (1 port into PC, 4 ports for accessories)</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Triple input (three different PCs attach to three different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog, blue (2) DisplayPort, digital, black, HDCP-compliant (3) HDMI (1.4), digital, 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>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPM1® (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, toolless detachable stand, Quick start and safety poster, analog signal cable, 1.8 meter USB cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

### Limited Warranty

- 3 year limited warranty
- International Warranty Service
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims
- Service upgrade options:
  - 3 year, on site exchange, Mon-Fri 9-5 with next day response (number 41C9209)
  - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
  - 4 year, mail exchange (51J0589)
  - 5 year, mail exchange (51J0590)
- 24x7 day toll-free support for warranty issues during the warranty period

### Accessories

- Kensington MicroSaver Cable Lock 73P2682
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Security Cable Lock 57Y4303
- Lenovo Easy Reach Monitor Stand 55Y9258
- ThinkCentre Extend Arm 57Y4352

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

See all monitors at www.lenovo.com/thinkvision

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(LT2013P) March 2013

See footnotes for important warranty information

US model announced March 12, 2013
### Lenovo ThinkVision LT2013s Wide

**Name**
- LT2013s Wide Flat Panel Monitor

**Case color**
- Business black

**Type-model**
- 60ABAAR1US

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

**Viewable image size (W x H)**
- 19.5" (494mm) diagonal

**Max view area**
- 17.08" x 9.30" / 433.9mm x 236.3mm

**Optimum resolution**
- 1600x900

**Aspect ratio**
- 16:9

**Pixel pitch (mm)**
- 0.27 (H) x .26 (V) mm

**Brightness**
- 200 nits or cd/m² (typical)

**Contrast ratio**
- 600:1 (typical)

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

**Color gamut**
- 72%

**Viewing angle at 10:1 CR**
- 90° (+/- 45°) horizontal, 50° (+ 15/- 35°) vertical

**Stand**
- Tilt stand

**Bezel width**
- Sides: 0.62" (15.85mm);
  - top: 0.73" (18.55mm);
  - bottom: 0.73" (18.55mm);

**Dimensions (HxWxD, excluding stand)**
- 10.83" H x 18.41" W x 2.09" D;

**Dimensions (HxWxD, including stand)**
- 34.24mm H x 467.0mm W x 160.7mm D

**Power supply**
- 17 watts typical, 19 watts maximum,
  - <0.5 watts switch off
  - integrated (no external brick-like power supply)

**Weight**
- 5.50 lb; 2.50kg

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

**Available date**
- July 2013

**Features**
- Widescreen 19.5-inch monitor
- Compliance with ENERGY STAR 6.0
- Support Lenovo Tiny PC and 3rd party thin client via optional Lenovo bracket
- EPEAT Silver certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 certified

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### Preset Resolutions

- VGA: 640x350, 640x480, 720x400
- SVGA: 800x600, 832x624
- XGA: 1024x768, 1152x864
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900
- WSXGA+: 1600x900

### Presets / user settings
- Presets: 24; user settings: 24

### 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

### USB hub
- None

### Multiple input
- VGA input

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

### 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, stand and base, Quick start and safety poster, analog signal 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
- Lenovo Easy Reach Monitor Stand
  - 55Y9258
- ThinkCentre Extend Arm
  - 57Y4352

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

---

See footnotes for important warranty information

US model announced July 10, 2013

© Lenovo (LT2013S) July 2013
### Lenovo ThinkVision LT2024 Wide

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td>LT2024 Wide Flat Panel Monitor</td>
</tr>
<tr>
<td><strong>Case color</strong></td>
<td>Business black</td>
</tr>
<tr>
<td><strong>Type-model</strong></td>
<td>60B9HAR1US</td>
</tr>
<tr>
<td><strong>Panel</strong></td>
<td>TFT-LCD, twisted nematic (TN), White LED backlight</td>
</tr>
<tr>
<td><strong>Viewable image size</strong></td>
<td>20.0&quot; (508mm) diagonal</td>
</tr>
<tr>
<td><strong>Max view area (W x H)</strong></td>
<td>17.4&quot; x 9.8&quot; (442.8mm x 249.1mm)</td>
</tr>
<tr>
<td><strong>Native resolution</strong></td>
<td>1600x900</td>
</tr>
<tr>
<td><strong>Aspect ratio</strong></td>
<td>16:9</td>
</tr>
<tr>
<td><strong>Pixel pitch (mm)</strong></td>
<td>.276mm</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>250 nits or cd/m² (typical)</td>
</tr>
<tr>
<td><strong>Contrast ratio</strong></td>
<td>1000:1 (typical)</td>
</tr>
<tr>
<td><strong>Pixel response time</strong></td>
<td>5ms (typical)</td>
</tr>
<tr>
<td><strong>Color gamut</strong></td>
<td>72%</td>
</tr>
<tr>
<td><strong>Viewing angle at 10:1 CR</strong></td>
<td>170° (+/- 85°) horizontal, 160° (+/- 80°) vertical</td>
</tr>
<tr>
<td><strong>Stand</strong></td>
<td>Tilt adjustable stand</td>
</tr>
<tr>
<td><strong>Bezel width</strong></td>
<td>Sides: 0.567&quot; (14.4mm)</td>
</tr>
<tr>
<td><strong>Dimensions (HxWxD)</strong></td>
<td>13.68&quot; x 18.83&quot; W x 6.33&quot; D; 347.4mm H x 478.4mm W x 160.7mm D</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>19 watts typical, 22 watts maximum, &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>6.75 lb; 3.07 kg</td>
</tr>
<tr>
<td><strong>Limited warranty</strong></td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td><strong>Available date</strong></td>
<td>March 2014</td>
</tr>
<tr>
<td><strong>VESA-compliant</strong></td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td><strong>Power management</strong></td>
<td>ENERGY STAR® qualified</td>
</tr>
<tr>
<td><strong>Ergonomics</strong></td>
<td>ISO 9241-307</td>
</tr>
<tr>
<td><strong>Emission standards</strong></td>
<td>FCF Class B</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td>TCO Displays 6.0, TCO Certified Edge 1.2, WEEE, RoHS, EPEAT™ Gold rating</td>
</tr>
<tr>
<td><strong>Preset resolutions</strong></td>
<td>VGA: 640x350, 640x480, 720x400 SVGA: 800x600, 832x624 XGA: 1024x768, 1152x864 SXGA: 1280x1024 WXGA: 1366x768 WXGA+: 1440x900, 1600x900</td>
</tr>
<tr>
<td><strong>Presets / user settings</strong></td>
<td>Standard presets: 24, user settings: 24</td>
</tr>
<tr>
<td><strong>Viewing adjustments</strong></td>
<td>Tilt: 22° backward, -5° forward</td>
</tr>
<tr>
<td><strong>Rotating screen</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>On screen display</strong></td>
<td>On screen display with digital user controls (8 languages)</td>
</tr>
<tr>
<td><strong>Multiple input</strong></td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
</tr>
<tr>
<td><strong>Monitor connectors</strong></td>
<td>(1) VGA 15-pin D-shell, analog, blue (2) Digital Visual Interface (DVI-D), digital, white, HDCP-compliant</td>
</tr>
<tr>
<td><strong>Signal cables</strong></td>
<td>One detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
</tr>
<tr>
<td><strong>Mounting features</strong></td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPMi® (100mm mount)</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)</td>
</tr>
<tr>
<td><strong>Ship group</strong></td>
<td>Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

### Features
- Widescreen 20-inch monitor
- Supports 1600x900 resolution
- Includes dual input connection for attachment to two systems concurrently (analog and digital)
- Arsenic / Mercury free glass
- EPEAT Gold certified
- Support Lenovo Tiny PC and 3rd party thin client
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 / Windows 8.1 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)

---

**Limited Warranty**


---

**Ship group**

Monitor with stand, Safety and Warranty Information, 1.8 meter analog signal cable, 1.8 meter black power cord
## Lenovo ThinkVision LT2223p Wide Monitor

### Features
- Widescreen 21.5-inch monitor
- 1080p full HD support
- Integrated USB Hub (4 USB 2.0)
- Supports VGA, DisplayPort 1.2 and HDMI 1.4 interfaces (HDCP-compliant)
- Ergonomic stand tilts, swivels, pivots and provides a 4.3" (110mm) range height adjustment for comfortable viewing
- Compliance with ENERGY STAR 6.0
- Support Lenovo Tiny PC and 3rd party thin client via optional Lenovo bracket
- Arsenic/Lead/Mercury free
- EPEAT Gold certified
- Microsoft® Windows® 7 certified
- Microsoft Windows 8 certified

### Presets / user settings
- Presets: 27; user settings: 20

### Viewing adjustments
- Rotating screen: Screen pivots 90 degrees from landscape to portrait (requires image rotation support from graphics controller, do not support image rotation under dual image modes)
- 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
- USB hub: USB 2.0 Hub: 1 port into PC (USB 2.0); 4 ports for accessories (4 USB 2.0)
- Multiple input: Triple input (three different PCs attach to three 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
  - (3) 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 FPMPM® (100mm mount) standard
- Security: Security keyhole for attachment of optional cable lock (Kensington® lock-compatible)

### Limited Warranty

- **3 year limited warranty**
- **International Warranty Service**
- **Replacement normally arrives in two business days, excluding holidays**
- **Lenovo pays all shipping costs for valid warranty claims**
- **Service upgrade options:**
  - **3 year, on site exchange, Mon-Fri 9-5 with next day response** (Lenovo Services part number 41C9209)
  - **4 year, on site exchange, Mon-Fri 9-5 with next day response** (41C9233)
  - **4 year, mail exchange (51J0589)**
  - **5 year, mail exchange (51J0590)**
  - **24x7 day toll-free support for warranty issues during the warranty period**

## Specifications

### Name
ThinkVision LT2223p

### Case color
Business black

### Type-model
60A1MAR2US

### Panel
TFT LCD, twisted nematic (TN), 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

### Optimum resolution
1920x1080

### Aspect ratio
16:9

### Pixel pitch (mm)
0.248mm

### Dot/Pixel per inch
103 dpi

### Brightness specifications
250 nits or cd/m² (typical)

### Contrast ratio
1000:1 (typical)

### Dynamic Contrast ratio
2000000:1

### Dynamic Contrast ratio
2000000:1

### 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 (tool-less detachable)
- Bezels:
  - Sides: 0.68" (17.3mm)
  - Top: 0.68" (17.3mm)
  - Bottom: 0.68" (17.3mm)

### Dimensions (w x h x d, excluding stand)
- 304.1mm H x 512.6mm W x 56.4mm D
- 362.9mm H x 512.6mm W x 218.4mm D

### Power supply
- 23 watts typical, 27 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

### Weight (including stand)
- 10.94 lb; 4.96kg

### Weight (Head only)
- 6.77 lb; 3.07kg

### Limited warranty
- 3 year

### Available date
March 2013

### VESA-compliant
VEGA DDC2B/C, VESA DPM-compliant

### Power management
ENERGY STAR® 6.0

### Ergonomics
ISO 9241-307

### Emission standards
MPR-2, FCC Class B

### Environmental specifications
TCO Displays 6.0, TCO Certified Edge 1.1, RoHS, EPEAT™ Gold rating

### Presets / user settings
- Presets: 27; user settings: 20

### Viewable image size
- Full HD: 1920x1080
- WXGA+: 1440x900
- WXGA: 1366x768
- SXGA: 1280x1024
- SVGA: 800x600, 832x624
- VGA: 640x350, 720x400

### Power supply
- 23 watts typical, 27 watts maximum, <0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

### Weight (including stand)
- 10.94 lb; 4.96kg

### Weight (Head only)
- 6.77 lb; 3.07kg

### Limited warranty
- 3 year

### Available date
March 2013

### VESA-compliant
- VESA DDC2B/Ci, VESA DPM-compliant

### Power management
- ENERGY STAR® 6.0

### Ergonomics
- ISO 9241-307

### Emission standards
- MPR-2, FCC Class B

### Environmental specifications
- TCO Displays 6.0, TCO Certified Edge 1.1, RoHS
- EPEAT™ Gold rating

### Preset resolutions
- VGA: 640x350, 640x480, 720x400
- SXGA: 1280x1024
- WXGA: 1366x768
- WXGA+: 1440x900
- WSGA+: 1600x900, 1680x1050

### Limited Warranty
- **3 year limited warranty**
- **International Warranty Service**
- **Replacement normally arrives in two business days, excluding holidays**
- **Lenovo pays all shipping costs for valid warranty claims**
- **Service upgrade options:**
  - **3 year, on site exchange, Mon-Fri 9-5 with next day response** (Lenovo Services part number 41C9209)
  - **4 year, on site exchange, Mon-Fri 9-5 with next day response** (41C9233)
  - **4 year, mail exchange (51J0589)**
  - **5 year, mail exchange (51J0590)**
  - **24x7 day toll-free support for warranty issues during the warranty period**

### Accessories

- Kensington MicroSaver Cable Lock 73P2582
- Kensington Twin Head Cable Lock 45K1620
- Lenovo Security Cable Lock 57Y4303
- Lenovo Easy Reach Monitor Stand 55Y9258
- ThinkCentre Extend Arm 57Y4352

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

See all monitors at www.lenovo.com/thinkvision

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For more information, visit Lenovo’s website and support pages.
## Lenovo ThinkVision LT2223z Wide

**Name**
Lenovo ThinkVision LT2223z

**Case color**
Business black

**Type-model**
60A2MAR2US

**Panel**
TFT/LCD, twisted nematic (TN), 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

**Optimum resolution**
1920x1080

**Aspect ratio**
16:9

**Pixel pitch (mm)**
0.248mm

**Dot/Pixel per Inch**
103 dpi

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

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

**Dynamic Contrast ratio**
2000000:1

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

**Color gamut**
72%

**Viewing angle at 10:1 CR**

**Bezel width**
Sides: 0.68” (17.3mm);
Top: 1.33” (33.8mm);
Bottom: 1.88” (47.8mm)

**Dimensions**
13.82” H x 20.18” W x 2.12” D;
(Excluding stand): 251.1mm H x 512.6mm W x 56.4mm D

**Power supply**
24 watts typical, 28 watts maximum;
<0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)

**Weight (including stand)**
11.98 lb; 5.43kg

**Weight (Head only)**
7.79 lb; 3.53kg

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

**Available date**
April 2013

**VESA-compliant?**
Yes

**Power management**
ENERGY STAR® 6.0

**Ergonomics**
ISO 9241-307

**Environmental**
Mercury-free, RoHS-compliant, TCO Display 6.0 certified

**Monitor connectors**
(1) Detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter

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

**DisplayPort**
HDCP-compliant

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

**Integrated speakers**
Integrated digital speakers (3 watts x 2)

**Multiple microphone**
Integrated digital camera (FHD) and digital dual microphone array, with Camera lock button for security

**Camera**
Full HD support

**Ergonomics**
Ergonomic stand tilts, swivels, pivots and provides a 4.3” (110mm) range height adjustment for comfortable viewing

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

**Viewing angles**

**Presets / user settings**
Presets: 25;
User settings: 20

**Limited Warranty**
3 year limited warranty

**International Warranty Service**

**Replacement normally arrives in two business days, excluding holidays**

**Lenovo pays all shipping costs for valid warranty claims**

**Service upgrade options**

**3 year, on site exchange, Mon-Fri 9-5 with next day response**
(Lenovo Services part number 41C9209)

**4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)**

**4 year, mail exchange (51J0589)**

**5 year, mail exchange (51J0590)**

**24x7** day toll-free support for warranty issues during the warranty period

**Accessories**

**Kensington MicroSaver Cable Lock**

**Kensington Twin Head Cable Lock**

**Lenovo Security Cable Lock**

**Lenovo Easy Reach Monitor Stand**

**ThinkCentre Extend Arm**

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

US model announced March 12, 2013

© Lenovo

(LT2223z) March 2013
## Lenovo ThinkVision LT2252p Wide Monitor

**Name**
LT2252p Wide Flat Panel Monitor

**Case color**
Business black

**Type-model**
2572-MB6 / 2572-MB1

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

**Viewable image size**
22" (559mm) diagonal

**Max view area (W x H)**
18.7" x 11.7" (473.8mm x 296.1mm)

**Optimum resolution**
1680x1050

**Max pixel rate**
205MHz

**Aspect ratio**
16:10

**Pixel pitch (mm)**
0.282mm

**Dot/Pixel per inch**
1000:1 (typical)

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

**Color gamut**
72%

**Anti-reflective**
Anti-reflective, anti-glare

**Viewing angle at 10:1 CR**
Tilt: 170° horizontal, 160° vertical

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

**Bezel width**
Sides: 0.60" (15.3mm); top: 0.79" (20.0mm); bottom: 1.10" (28.0mm)

**Dimensions (HxWxD)**
14.46-18.79" H x 19.92" W x 9.50" D;
367.3-477.3mm H x 506mm W x 241.2mm D

**Power supply**
20 watts typical, 26 watts maximum,
<0.5 watts standby/suspend, universal,
integrated (no external brick-like power supply)

**Weight**
12.97lb; 5.89kg

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

**Available date**
September 2011 / December 2012

**VESA-compliant**
VESADDC2B/C1

**Energy Star**
ENERGY STAR® 5.1 (2572-MB6)
ENERGY STAR® 6.0 (2572-MB1)

**Ergonomics**
ISO 9241-307

**Emission standards**
MPR-2, FCC Class B

**Environmental**
TCO Displays 5.2, TCO Certified Edge 1.1,
WEED, RoHS, EPEAT™ Gold rating, ULE Gold

### Preset resolutions

<table>
<thead>
<tr>
<th>VGA</th>
<th>640x350, 640x480, 720x400</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVGA</td>
<td>800x600</td>
</tr>
<tr>
<td>XGA</td>
<td>1024x768, 1152x864</td>
</tr>
<tr>
<td>SXGA</td>
<td>1280x1024</td>
</tr>
<tr>
<td>WXGA</td>
<td>1280x768, 1280x800, 1366x768</td>
</tr>
<tr>
<td>WXGA+</td>
<td>1440x900</td>
</tr>
<tr>
<td></td>
<td>1600x900</td>
</tr>
<tr>
<td>WSGXGA</td>
<td>1680x1050</td>
</tr>
</tbody>
</table>

### Presets / user settings

- VGA/DisplayPort: 26
- DVI-D: 25
- user settings: 25

### Viewing adjustments

- Tilt: 30° back, 0° forward; lift: 4.3" (110mm); swivel: +/− 45°; detachable stand

### Rotating screen

- Screen pivots 90 degrees from landscape to portrait (requires image rotation support from graphics controller)

### On screen display features

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

### Control features

- Direct access (buttons on front) for automatic image setup, input switch, and brightness

### USB hub

- None

### Camera

- None

### Multiple input

- Triple input (three different PCs attach to three 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, DVI-D at each end, digital, 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 FPM/MPMI™ (100mm mount)

### Security

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

### Ship group

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

### Accessories

- DisplayPort to DisplayPort Monitor Cable
- Kensington MicroSaver Cable Lock
- Kensington Twin Head Cable Lock
- Lenovo Security Cable Lock
- ThinkCentre Extend Arm
- Lenovo Easy Reach Monitor Stand

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

- 3 year limited warranty
- International Warranty Service
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims
- Service upgrade options:
  - 3 year, on site exchange, Mon-Fri 9-5 with next day response (Lenovo Services part number 41C9209)
  - 4 year, on site exchange, Mon-Fri 9-5 with next day response (41C9233)
  - 4 year, mail exchange (51J0589)
  - 5 year, mail exchange (51J0590)
- 24x7 day toll-free support for warranty issues during the warranty period
**Lenovo ThinkVision LT2323p Wide**  
**Product Specifications Reference (PSREF)**

### Name
LT2323p Wide Flat Panel Monitor

### Case color
Raven black

### Type-model
3024-HC1

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

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

### Max view area (W x H)
18.65" x 11.66" / 473.8mm x 296.1mm

### Optimum resolution
1920x1080

### Aspect ratio
16:9

### Pixel pitch (mm)
0.285mm

### Dot/Pixel per Inch
96 dpi

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

### Contrast ratio
1000:1 (typical)

### Pixel response time
5ms (typical)

### Color gamut
72%

### Anti-reflective
Anti-reflective, anti-glare

### Vertical frequency
50 to 75Hz

### Horizontal frequency
30 to 85kHz

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

### Stand
Tilt, swivel, pivot, and height adjustable stand (toolless detachable)

### Bezel width

<table>
<thead>
<tr>
<th>Sides:</th>
<th>Top:</th>
<th>Bottom:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.68&quot; (17.2mm)</td>
<td>0.70&quot; (17.7mm)</td>
<td>0.94&quot; (24.0mm)</td>
</tr>
</tbody>
</table>

### Dimensions (HxWxD)

<table>
<thead>
<tr>
<th>Power supply</th>
<th>Dimensions (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 watts typical, 38 watts maximum, &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
<td>372.3mm H x 546.0mm W x 52.3mm D</td>
</tr>
</tbody>
</table>

### Power supply

<table>
<thead>
<tr>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.65 lb; 5.74kg</td>
</tr>
</tbody>
</table>

### Limited warranty
3 year (includes backlight)

### Available date
May 2012

### VESA-compliant
VESAC DDC2B/C1, VESA DPMS-compliant

### Power management
ENERGY STAR® 6.0 DRAFT

### Ergonomics
ISO 9241-307

### Emission standards
MPR-2, FCC Class B

### Environmental
TCO (TCO Certified Edge 1.1), WEEE, RoHS, EPEAT™ Gold rating

### Preset resolutions

<table>
<thead>
<tr>
<th>Preset resolutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGA: 640x350, 640x480, 720x400</td>
</tr>
<tr>
<td>XGA: 800x600</td>
</tr>
<tr>
<td>SXGA: 1024x768, 1152x864</td>
</tr>
<tr>
<td>WXGA: 1280x1024</td>
</tr>
<tr>
<td>WXGA+: 1280x768, 1360x768</td>
</tr>
<tr>
<td>WXGA++: 1440x900</td>
</tr>
<tr>
<td>WUXGA+: 1680x1050</td>
</tr>
<tr>
<td>Full HD: 1920x1080</td>
</tr>
</tbody>
</table>

### Presets / user settings
Presets: 26; user settings: 25

### Viewing adjustments

<table>
<thead>
<tr>
<th>Viewing adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilt: 30° back, -5° forward; lift: 4.3&quot; (110mm); swivel: +/45°; detachable stand</td>
</tr>
</tbody>
</table>

### Rotating screen
Screen pivots 90 degrees from landscape to portrait (requires image rotation support from graphics controller, do not support image rotation under dual image modes)

### 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

### USB hub
USB 2.0 Hub (1 port into PC, 4 ports for accessories)

### Multiple input
Triple input (three different PCs attach to three different connectors; one PC shows image; select via button)

### Monitor connectors

<table>
<thead>
<tr>
<th>Monitor connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) VGA 15-pin D-shell at each end, analog, blue</td>
</tr>
<tr>
<td>(2) DisplayPort, digital, black, HDCP-compliant</td>
</tr>
<tr>
<td>(3) Digital Visual Interface (DVI-D), digital, white, HDCP-compliant</td>
</tr>
<tr>
<td>(4) USB 2.0 Hub (1 port into PC, 4 ports for accessories)</td>
</tr>
<tr>
<td>(5) Composite video (BNC) at each end, analog, blue</td>
</tr>
<tr>
<td>(6) DisplayPort at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td>(7) Digital Visual Interface (DVI-D), Digital, black</td>
</tr>
</tbody>
</table>

### Signal cables

<table>
<thead>
<tr>
<th>Signal cables</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
</tr>
<tr>
<td>(2) detachable, DVI-D at each end, digital, 1.8 meter</td>
</tr>
</tbody>
</table>

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

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

### Ship group
Monitor, toolless detachable stand, Quick start and safety poster, analog signal cable, DVI-D cable, 1.8 meter USB cable, 1.8 meter black power cord

### Limited Warranty

- 3 year limited warranty
- International Warranty Service
- Replacement normally arrives in two business days, excluding holidays
- Lenovo pays all shipping costs for valid warranty claims
- Service upgrade options:
  - 3 year, on site exchange, Mon-Fri 9-5 with next day response
  - 4 year, on site exchange, Mon-Fri 9-5 with next day response
  - 5 year, mail exchange
- 24x7 day toll-free support for warranty issues during the warranty period

### Features
- Widescreen 23-inch monitor
- 1080p full HD support, HDCP-compliant
- Built-in VGA, DVI and DisplayPort connectors for attachment to three systems concurrently
- Ergonomic stand lifts, swivels, pivots and provides a 4.3" (110mm) range height adjustment for comfortable viewing
- Compliance with ENERGY STAR 6.0 DRAFT
- Microsoft® Windows® 7 certified

### Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kensington MicroSaver Cable Lock</td>
</tr>
<tr>
<td>Kensington Twin Head Cable Lock</td>
</tr>
<tr>
<td>Lenovo Easy Reach Monitor Stand</td>
</tr>
<tr>
<td>ThinkCentre Extend Arm</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)

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See footnotes for important warranty information

US model announced May 1, 2012

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(LT2323P) May 2012
### Lenovo ThinkVision LT2323z Wide

#### Features
- Widescreen 23-inch IPS monitor
- 1080p full HD support, HDCP-compliant
- Built-in VGA and DisplayPort connectors for attachment to two systems concurrently
- Integrated camera (Full HD) and dual digital microphone
- Integrated USB 3.0 Hub
- Ergonomic stand tilts, swivels, pivots and provides a 4.3" (110mm) range height adjustment for comfortable viewing
- Compliance with ENERGY STAR 6.0 DRAFT
- Ambient light sensor to automatically adjust the backlight
- Microsoft® Lync™ certified VoIP monitor
- EPEAT Gold certified

### Specifications

#### Name
LT2323z Wide Flat Panel Monitor

#### Case color
Raven black

#### Type-model
3028-LB2

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

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

#### Max view area (W x H)
20.05" x 11.28" / 509.2mm x 286.4mm

#### Optimum resolution
1920x1080

#### Aspect ratio
16:9

#### Pixel pitch (mm)
0.265mm

#### Dot/Pixel per Inch
72%

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

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

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

#### Stand
Tilt, swivel, pivot, and height adjustable stand (toolless detachable)

#### Bezel width
- Sides: 0.68" (17.3mm);
- top: 1.15" (29.1mm);
- bottom: 2.76" (70.1mm)

#### Dimensions (HxWxD)
15.24" H x 21.47" W x 2.22" D; (excluding stand)

#### Power supply
25 watts typical, 40 watts maximum,

#### Vertical frequency
50 to 75kHz

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

#### Preset resolutions
- VGA: 640x480, 640x480, 720x400
- SVGA: 800x600
- XGA: 1024x768, 1152x864
- SXGA: 1280x1024
- WXGA: 1280x768, 1360x768
- WXGA+: 1440x900
- WSXGA+: 1600x1050
- UXGA: 1600x1200
- Full HD: 1920x1080

#### Presets / user settings
- Presets: 26; 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 (requires image rotation support from graphics controller, do not support image rotation under dual image modes)

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

#### Control features
- Direct access (buttons on front and side) for MIC mute, speaker mute, hook switch and volume +/- buttons

#### USB hub
- USB 3.0 Hub: 1 port into PC; 5 ports for accessories (3 USB 3.0 + 2 USB 2.0)

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

#### Camera
- Integrated camera (Full HD) and digital dual microphone array, with Camera lock button for security

#### 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 meeting the VESA FPMPMI® (100mm mount)

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

#### Ship group
- Monitor, toolless detachable stand, Quick start and safety poster, analog signal cable, DisplayPort cable, 1.8 meter USB 3.0 cable, 1.8 meter black power cord

### Limited Warranty

<table>
<thead>
<tr>
<th>Warranty Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 year limited warranty</td>
<td>Lenovo pays all shipping costs for valid warranty claims</td>
</tr>
<tr>
<td>International Warranty Service</td>
<td>Lenovo Easy Reach Monitor Stand (LT2323Z) June 2012</td>
</tr>
<tr>
<td>Replacement normally arrives in two business days, excluding holidays</td>
<td>ThinkCentre Extend Arm</td>
</tr>
<tr>
<td>Lenovo pays all shipping costs for valid warranty claims</td>
<td>57Y4352</td>
</tr>
<tr>
<td>Service upgrade options</td>
<td>See all monitors at <a href="http://www.lenovo.com/thinkvision">www.lenovo.com/thinkvision</a></td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Name</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kensington MicroSaver Cable Lock</td>
<td>73P2582</td>
</tr>
<tr>
<td>Kensington Twin Head Cable Lock</td>
<td>45K1620</td>
</tr>
<tr>
<td>Lenovo Security Cable Lock</td>
<td>57Y4303</td>
</tr>
<tr>
<td>Easy Reach Monitor Stand</td>
<td>55Y9258</td>
</tr>
<tr>
<td>ThinkCentre Extend Arm</td>
<td>57Y4352</td>
</tr>
</tbody>
</table>

See footnotes for important warranty information
See all monitors at www.lenovo.com/thinkvision

© Lenovo (LT2323Z) June 2012
### Lenovo ThinkVision LT2423 Wide Monitor

#### Name and Specifications
- **Model:** LT2423 Wide Flat Panel Monitor
- **Case color:** Business black
- **Type-model:** 60A8KAR2US
- **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 pixel rate:** 205 MHz
- **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)
- **Contrast ratio:** 2000000:1
- **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; (hxWxD, excluding stand) 343.7mm H x 567.1mm W x 50.0mm D; (hxWxD, including stand) 414.3mm H x 567.1mm W x 216.7mm D
- **Power supply:** 21 watts typical, 31 watts maximum, <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

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

#### Presets / User Settings
- **Preset resolutions:** VGA: 640x350, 640x480, 720x400, 800x600, 832x624
- **XGA:** 1024x768, 1152x864
- **SXGA:** 1280x1024
- **WXGA:** 1366x768
- **WXGA+: 1440x900, 1600x900
- **WSXGA+: 1680x1050
- **Full HD:** 1920x1080
- **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 FPMPM (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:** 55Y9352
- **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)

See footnotes for important warranty information

US model announced June 25, 2013

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LT2423 June 2013
**Lenovo ThinkVision LT2452p Wide Monitor**

**Name**
Lenovo LT2452p Wide Flat Panel Monitor

**Case color**
Business black

**Type-model**
4420-MB2 / 60A6MAR2US

**Panel**
TFT-LCD, e-IPS, White LED backlight

**Viewable image size**
24" (610mm) diagonal

**Max view area (W x H)**
20.4" x 12.8" (518.4mm x 324.0mm)

**Optimum resolution**
1920x1200

**Max pixel rate**
202.5MHz

**Aspect ratio**
16:10

**Pixel pitch (mm)**
0.270mm

**Dot/Pixel per Inch**
94 dpi

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

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

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

**Color gamut**
72%

**Anti-reflective**
Anti-reflective, anti-glare

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

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

**Bezel width**
Sides: 0.78" (19.9mm); top: 0.78" (19.9mm);
bottom: 1.12" (28.4mm)

**Dimensions (HxWxD)**
15.54-19.87" H x 22" W x 10.13" D;
394.8-504.8mm H x 559.6mm W x 257.3mm D

**Power supply**
30 watts typical (w/o USB hub),
40 watts maximum (w/o USB hub),
<0.5 watts standby/suspend (w/o USB hub), universal,
integrated (no external brick-like power supply)

**Weight**
14.70 lb; 6.67kg

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

**Available date**
September 2011 / April 2013

### Features
- Widescreen 24-inch monitor
- Supports 1920x1200 resolution
- High Definition (HD) ready; supports 1080p video
- Ergonomic stand tilts, swivels, pivots and provides a 4.3° (110mm) range height adjustment for comfortable viewing
- Cable Management for better user experience
- Carrying handle
- Recycled content in plastic material
- Microsoft® Windows® 8 certified
- PVC/Arsenic/Lead/Mercury free (60A6MAR2US)

### Presets / user settings
- Standard presets: 30; User settings: 20

### Viewing adjustments
- Tilt: 30° back, 0° forward; lift: 4.3° (110mm); swivel: ±45°; detachable stand
- Screen pivots 90 degrees from landscape to portrait (requires image rotation support from graphics controller)

### Rotating screen
- Screen pivots 90 degrees from landscape to portrait
- On screen display with digital user controls (8 languages)

### On screen display
- Direct access (buttons on front) for automatic image setup, input switch, and brightness
- USB hub
- 2.0 Hub (1 port into PC, 4 ports for accessories)
- Multiple input
- Triples input (three different PCs attach to three 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
- (3) 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
- Note: DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537)
- 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)

### Accessories
- DisplayPort to DisplayPort Monitor Cable 0A36537
- 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 footnotes for important warranty information

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US model announced September 13, 2011 or April 16, 2013
US model 4420-MB2 withdrawn effective October 31, 2013

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

See all monitors at www.lenovo.com/thinkvision
# Lenovo ThinkVision Pro2820 Wide

**Pro2820 Wide Flat Panel Monitor**

### Features
- 28-inch MVA (Multi-domain Vertical Alignment) panel LED backlit 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case color</td>
<td></td>
</tr>
<tr>
<td>Type-model</td>
<td>6085RAR6US</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, with wide viewing angle (WVA) technology, White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>28” (711mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>24.44” x 13.44” (620.99mm x 53.41mm)</td>
</tr>
<tr>
<td>Optimum resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td>Max pixel rate</td>
<td>205MHz (VGA); 165MHz (HDMI); 149MHz (MHL)</td>
</tr>
<tr>
<td>Frequency</td>
<td>Supports 1920 x 1080 @ 60Hz</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.32 x 0.32mm</td>
</tr>
<tr>
<td>Dot/Pixel per Inch</td>
<td>79 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>300 nits or cd/m² (typical)</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>3000:1 (typical)</td>
</tr>
<tr>
<td>Pixel response time</td>
<td>6.5ms</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</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, and height adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.86” (21.85mm)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>17.45” H x 26.21” W x 2.30” D;</td>
</tr>
<tr>
<td>(htxWxD, excluding stand)</td>
<td>443.3mm H x 665.9mm W x 58.2mm D</td>
</tr>
<tr>
<td>Dimensions</td>
<td>17.45” H x 26.21” W x 11.41” D;</td>
</tr>
<tr>
<td>(htxWxD, including stand)</td>
<td>443.3mm H x 665.9mm W x 289.9mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>60 watts typical, 90 watts typical (with USB), 65 watts maximum, 95 watts maximum (with USB), &lt;1.2 watts sleep/off, &lt;0.5 watts switch-off (integrated (no external brick-like power supply))</td>
</tr>
<tr>
<td>Weight</td>
<td>17.84 lb; 8.11kg (including stand)</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>September 2014</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/C1</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR 6.0</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 6.0, TCO Certified Edge 1.2, RoHS, EPEAT Gold, ULE Gold</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>VGA: 640x480, 720x400, 800x600, 1024x768, 1024x760, 1280x1024, 1280x720, 1280x800, 1366x768, 1440x900, 1600x900, 1680x1050, 1920x1080, 1152x864, others: 1152x864</td>
</tr>
<tr>
<td>Presets / user settings</td>
<td>Standard presets: 17; user settings: 17</td>
</tr>
<tr>
<td>View settings</td>
<td>Tilt: 25° back, -5° forward; lift: 4.3° (110mm); swivel: +/-45° 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 (touch buttons on front) for automatic image setup, input 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>None</td>
</tr>
<tr>
<td>Camera</td>
<td>None</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Support VGA, HDMI, DisplayPort, MHL connections (Mobile High-definition Link)</td>
</tr>
<tr>
<td>Monitor connectors</td>
<td>(1) VGA 15-pin D-shell, analog</td>
</tr>
<tr>
<td></td>
<td>(2) HDMI (1.4), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(3) DisplayPort (1.2), digital, MHL-compliant</td>
</tr>
<tr>
<td>Signal cables</td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
</tr>
<tr>
<td></td>
<td>(2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories meeting the VESA FPMPM™ (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 DisplayPort cable, 1.8 meter VGA cable, 1.8 meter USB 3.0 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](www.lenovo.com/support/monitoraccessories)

See all monitors at [www.lenovo.com/thinkvision](www.lenovo.com/thinkvision)
**Lenovo ThinkVision Pro2840m Wide**

<table>
<thead>
<tr>
<th>Name</th>
<th>Pro2840m Wide Flat Panel Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case color</td>
<td>Black</td>
</tr>
<tr>
<td>Type-model</td>
<td>60B4RAR6US</td>
</tr>
<tr>
<td>Panel</td>
<td>TFT-LCD, twisted nematic (TN), White LED backlight</td>
</tr>
<tr>
<td>Viewable image size</td>
<td>28&quot; (711mm) diagonal</td>
</tr>
<tr>
<td>Max view area (W x H)</td>
<td>24.44&quot; x 13.44&quot; (620.9mm x 341.3mm)</td>
</tr>
<tr>
<td>Optimum resolution</td>
<td>3840x2160</td>
</tr>
<tr>
<td>Max pixel rate</td>
<td>300MHz (HDMI); 594MHz(DP); 149MHz (MHL)</td>
</tr>
<tr>
<td>Frequency</td>
<td>Supports 3840 x 2160 @ 60Hz</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>0.16 x 0.16mm</td>
</tr>
<tr>
<td>Dot/Pixel per inch</td>
<td>157 dpi</td>
</tr>
<tr>
<td>Brightness</td>
<td>270 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</td>
</tr>
<tr>
<td>Color gamut</td>
<td>72%</td>
</tr>
<tr>
<td>Viewing angle at 10:1 CR</td>
<td>170° horizontal, 160° vertical</td>
</tr>
<tr>
<td>Stand</td>
<td>Tilt, swivel, and height adjustable stand</td>
</tr>
<tr>
<td>Bezel width</td>
<td>Sides: 0.86&quot; (21.85mm)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>17.45&quot; H x 26.21&quot; W x 2.30&quot; D;</td>
</tr>
<tr>
<td>(HxWxD, excluding stand)</td>
<td>443.3mm H x 665.9mm W x 58.2mm D</td>
</tr>
<tr>
<td>Dimensions</td>
<td>17.45&quot; H x 26.21&quot; W x 11.40&quot; D;</td>
</tr>
<tr>
<td>(HxWxD, including stand)</td>
<td>443.3mm H x 665.9mm W x 289.9mm D</td>
</tr>
<tr>
<td>Power supply</td>
<td>60 watts typical, 90 watts typical (with USB), 65 watts maximum, 95 watts maximum (with USB), &lt;1.2 watts sleep/off; &lt;0.5 watts switch off</td>
</tr>
<tr>
<td>Weight</td>
<td>22.47 lb; 10.19kg (including stand)</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>3 year (includes backlight)</td>
</tr>
<tr>
<td>Available date</td>
<td>May 2014</td>
</tr>
<tr>
<td>VESA-compliant</td>
<td>VESA DDC2B/CI</td>
</tr>
<tr>
<td>Power management</td>
<td>ENERGY STAR® 6.0</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 6.0, TCO Certified Edge 1.2, RoHS, EPEAT® Gold rating, ULE Gold</td>
</tr>
<tr>
<td>Preset resolutions</td>
<td>Standard presets: 20; user settings: 20</td>
</tr>
<tr>
<td>Presets / user settings</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: 1280x720, 1280x800, 1360x768</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>WQXGA: 2560x1600, 2560x1440, other: 3840x2160, 2160x1920</td>
</tr>
<tr>
<td>Viewing adjustments</td>
<td>Tilt: 25° back, -5° forward; lift: 4.3° (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 (touch buttons on front) for automatic image setup, input switch, and brightness</td>
</tr>
<tr>
<td>USB hub</td>
<td>USB Hub: 3 USB 3.0, 2 USB 2.0</td>
</tr>
<tr>
<td>Multimedia</td>
<td>Integrated stereo speakers (3 watts x 2)</td>
</tr>
<tr>
<td>Camera</td>
<td>None</td>
</tr>
<tr>
<td>Multiple input</td>
<td>Support HDMI, DisplayPort, mini DisplayPort, MHL connections (Mobile High-definition Link)</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>
</tr>
<tr>
<td></td>
<td>(3) mini DisplayPort (1.2), digital, HDCP-compliant</td>
</tr>
<tr>
<td></td>
<td>(1) detachable, HDMI at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td></td>
<td>(2) detachable, DisplayPort at each end, digital, 1.8 meter</td>
</tr>
<tr>
<td>Mounting features</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories 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 DisplayPort cable, 1.8 meter HDMI cable, 1.8 meter USB 3.0 cable, 1.8 meter USB 2.0 cable, 1.8 meter black power cord</td>
</tr>
</tbody>
</table>

**Features**

- 28-inch 4K*2K LED backlit monitor with speaker
- Supports 3840x2160 resolution
- 5-Ports USB hub, support USB 3.0 and USB 2.0
- 3watts x 2 stereo speakers
- Arsenic/Mercury free
- Microsoft® Windows® 7
- Windows 8/Windows 8.1 certified

**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)

See footnotes for important warranty information

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(Pro2840m) June 2014
## Lenovo ThinkVision 28

**Product Specifications Reference (PSREF)**

### Name
ThinkVision 28 Wide Flat Panel Monitor

### Case color
Black with Silver bezel

### Type-model
60B6GAR1US

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

### Viewable image size
28" (711mm) diagonal

### Max view area (W x H)
24.44" x 13.44" (620.9mm x 341.3mm)

### Optimum resolution
3840x2160

### Max pixel rate
297MHz (HDMI); 594MHz (DP)

### Touch
Supports 10-point touch

### Aspect ratio
16:9

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

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

### Contrast ratio
1000:1 (typical)

### Pixel response time
5ms

### Color gamut
72%

### Viewing angle at 10:1 CR
170° horizontal, 160° vertical

### Stand
Multi-mode stand (standard, inclined, and flat)

### Bezel width
Top: 1.20" (30.5mm)  
Bottom: 1.98" (50.3mm)  
Sides: 1.16" (29.5mm)

### Dimensions (hwxWxD, excluding stand)
424.1mm x 26.85mm x 37.6mm (16.7" x 1.48" x 1.5"

### Dimensions (hwxWxD, including stand)
502.8mm x 26.85mm x 59.5mm (19.8" x 1.48" x 2.3"

### Power supply
55 watts typical, 90 watts maximum, <10 watts sleep/off, <0.5 watts switch off

### Weight
24.2 lb; 11.0kg (including stand)

### Limited warranty
1 year (includes backlight)

### Smart Mode
nVidia Tegra K1 System-on chip

### Platform
Android 4.4 Operating system

### Preload
2GB DDR3L memory

### Display RAM
32GB eMMC storage

### Storage
One MicroSD Card slot

### Card slot
802.11abgn, Bluetooth 4.0

### Wireless
Gigabit Ethernet

### Ethernet
TCO Displays 6.0, RoHS, EPEAT Gold rating

### Preset resolutions
- VGA: 640x480, 640x640, 720x400
- SVGA: 800x600
- XVGA: 1024x768, 1152x864
- SXVGA: 1280x1024, 1280x720, 1280x800, 1280x1280
- XGA+: 1440x900
- UXGA: 1600x900, 1680x1050
- WUXGA: 1920x1080, 1920x1200, 2560x1600
- QFHD: 3840x2160

### Presets / user settings
Standard presets: 19; user settings: 20

### Viewing adjustments
- Tilt: 90° back, -5° forward; lift: 3.07" (78mm);
- None

### Rotating screen
On screen display

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

### Control features
Direct access (touch buttons on front) for automatic image setup, input switch, and brightness

### Multimedia
Integrated stereo speakers (5 watts x 2), Noise Cancelling array microphone x 2

### Audio Jack
Audio Out Jack x 1 for speakers, Audio In/Out Jack x 1 for headsets

### Camera
FHD camera with 2.1 MP resolution

### Multiple input
Support HDMI, DisplayPort

### Monitor connectors
- (1) HDMI (1.4) x 3, digital, HDCP-compliant
- (2) DisplayPort (1.2) x 1, digital, HDCP-compliant

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

### 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 HDMI cable, 1.8 meter USB 3.0 cable, 1.8 meter external power adapter

### 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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(TV28) October 2014
### Lenovo ThinkVision T2014 Wide

<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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Raven black</td>
<td>60C2HAR1US</td>
<td>TFT-LCD, twisted nematic (TN), White LED backlight</td>
<td>19.5&quot; (495mm) diagonal</td>
<td>17.1&quot; x 9.3&quot; (433.9mm x 236.3mm)</td>
<td>1600x900</td>
<td>16:9</td>
<td>0.2712 x 0.2626 mm</td>
<td>94.1 dpi</td>
<td>250 nits or cd/m² (typical)</td>
<td>1000:1 (typical)</td>
<td>5ms (typical)</td>
<td>72%</td>
<td>170° (+/- 85°) horizontal, 160° (+/- 80°) vertical</td>
<td>Tilt adjustable stand</td>
<td>0.78&quot; (19.8mm)</td>
<td>13.86&quot; H x 18.62&quot; W x 7.47&quot; D</td>
<td>20 watts typical, 22 watts maximum, &lt;0.5 watts standby/suspend, universal, integrated (no external brick-like power supply)</td>
<td>5.56 lb; 2.53 kg</td>
<td>3 year (includes backlight)</td>
<td>January 2015</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VESA-compliant</th>
<th>Power management</th>
<th>Ergonomics</th>
<th>Emission standards</th>
<th>Environmental</th>
<th>Preset resolutions</th>
<th>Presets / user settings</th>
<th>Viewing adjustments</th>
<th>Rotating screen</th>
<th>On screen display</th>
<th>Multiple input</th>
<th>Monitor connectors</th>
<th>Signal cables</th>
<th>Mounting features</th>
<th>Security</th>
<th>Ship group</th>
</tr>
</thead>
<tbody>
<tr>
<td>VESA DDC2B/Ci</td>
<td>ENERGY STAR® qualified</td>
<td>ISO 9241-307</td>
<td>FOC Class B</td>
<td>TCO Displays 6.0, TCO Certified Edge 2.0, WEEE, RoHS, EPEAT™ Gold rating</td>
<td>VGA: 640x350, 640x480, 720x400</td>
<td>Standard presets: 24, user settings: 24</td>
<td>Tilt: 22° backward, -5° forward</td>
<td>None</td>
<td>On screen display with digital user controls (8 languages)</td>
<td>Dual input (two different PCs attach to two different connectors; one PC shows image; select via button)</td>
<td>(1) VGA 15-pin D-shell, analog, blue</td>
<td>(2) Digital Visual Interface (DVI-D), digital, white, HDCP-compliant</td>
<td>(1) detachable, VGA 15-pin D-shell at each end, analog, 1.8 meter</td>
<td>(2) detachable, DVI-D at each end, digital, 1.8 meter</td>
<td>Wall or desk mounting using the Extend Arm or third-party accessories, 100mm x 100mm mount</td>
</tr>
</tbody>
</table>

### Features
- Widescreen 19.5-inch monitor
- Supports 1600x900 resolution
- 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

### 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)

See footnotes for important warranty information

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<table>
<thead>
<tr>
<th>Disclaimer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenovo provides the information in the Product Specifications Reference (PSREF) withdrawn product books on an &quot;AS-IS&quot; basis. Because the actual products have been withdrawn from marketing, the information in these withdrawn product books is no longer maintained or updated. The referenced footnote numbering may not correspond with the listed footnotes.</td>
</tr>
</tbody>
</table>

PSREF books for the withdrawn systems:
http://www.lenovo.com/psref/psrefs_withdrawn.html
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1 ISO-compliant: Compliance with ISO 9241 Part 3, ISO Part 7, ISO Part 8, and/or ISO 13406 Part 2 is dependent on a complete ISO-capable platform of a system unit, monitor, video subsystem, operating system and fonts.

2 VESA: Requires attachment to suitably configured system with similarly enabled operating system.

3 ENERGY STAR: As an ENERGY STAR partner, Lenovo has determined that this product meets the ENERGY STAR 4.0 or 41 guidelines for energy efficiency. Requires attachment to suitably configured system.

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

5 International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

6 Lenovo pays all shipping costs for warranty repairs during limited warranty period.

7 Lenovo Services: These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See terms and conditions for complete details and restrictions.

8 Telephone support may be subject to additional charges, even during the limited warranty period. Response times may vary. May exclude some holidays. If a machine is listed as having "On-site service for select repairs," this means that onsite service is available only for the replacement of select parts. For all other warranty repairs, Lenovo will provide the customer a replacement part for customer installation. The parts for which onsite service is available varies by machine, but may include the processor, power supply, heat sink, system board, or base cover. For machines with EasyServ or Courier service, Lenovo will attempt to diagnose and resolve the problem remotely before sending a courier.

9 TAA: Monitor is compliant with the U.S. Federal Government’s country-of-origin requirements prescribed in 48 C.F.R. Subpart 25.4; Trade Act Agreement (TAA) model.

10 Post-warranty annual maintenance agreement: Service begins at the end of the base warranty or the end of any other applied warranty and maintenance option, whichever occurs last. Service delivery is not available the same day the maintenance agreement is purchased. Maintenance agreements must be purchased and the registration successfully completed prior to the service being available.

11 Halogen: Less than 900 Parts Per Million. Low halogen is defined in accordance with IPC-401B and draft IPC-J-STD 709 Class 1 requirements.

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