

INNOVATION YOU CAN SEE

ThinkVision Monitors Offering Comparison Guide



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ThinkVision®

A WISE INVESTMENT BRINGS YOUR BUSINESS VISION TO LIFE.

As the window to your computing world, your monitor is a big part of everyday life. Whether you're choosing for yourself or for others, you want a monitor that helps create a better work experience and helps enhance productivity. Designed to meet exacting standards of performance and quality, ThinkVision® monitors are a smart investment for today and the future.

Part of your ThinkPad® or ThinkCentre® system

Choose a monitor that complements your system in function and style. All ThinkVision monitors are fully compatible with ThinkPad and ThinkCentre systems.

ThinkVision monitors

The exciting line of ThinkVision monitors couples the latest technology with outstanding design for an experience you can appreciate on a daily basis. You'll find a great range of choices available in the ThinkVision family, with everything from essential monitors for general business needs to new models that offer outstanding ergonomic and usability features.



Warranties help protect your investment.

ThinkVision monitors are backed by a limited warranty¹ and replacement policy that reflects a real commitment to quality. In the rare event that your monitor fails during the warranty period, a replacement will be shipped to you via express-delivery service. Don't worry about shipping costs during the monitor's limited warranty period—shipping is covered both ways for warranty repairs.

For important warranty information, see footnotes on the back panel.



The ThinkPad T42 notebook on a port replicator and ThinkVision L190p flat panel monitor featured here are sold separately.

See more, do more, in less time.

Multi-monitoring—using more than one monitor connected to a notebook or desktop computer—lets users view more information simultaneously and extend their workspace. Enabling a wider view of word processing documents and spreadsheets helps users improve overall productivity and reduce errors. A productivity study² found that multi-monitor users completed tasks 7% faster and reported a 33% reduction in errors.

For ThinkPad notebook configurations, simply attach an additional monitor to the integrated VGA port or to an optional ThinkPad Dock, Mini-Dock or Port Replicator. The Presentation Director utility includes an easy-to-use interface that makes configuration a snap.

Consider the many benefits of ThinkVision flat panel monitors:

- Power consumption and space savings vs. comparable CRT monitors
- Ergonomic stands (select models)
- Exacting component-quality standards
- Easy-to-access controls and intuitive interfaces
- Extensive compatibility testing
- Designs that match your ThinkPad or ThinkCentre system
- Three-year limited warranty¹, including the backlight
- Pivot* (select models).

* Graphic card-dependent.

WHICH MONITOR IS BEST FOR ME?

Professional Graphics



L191p



L200p

Possible uses: CAD/CAM/CAE, Desktop Publishing, Web Design, Video Editing, Trading Floor, Digital Content Creation, Imaging

Advanced Business



C190



L171



L171p



L191p

Possible uses: Complex Spreadsheets, Multitasking with Multiple Windows, High Data-Content Applications

General Business



E74



C170



L151p



L171/L170m

Possible uses: Word Processing, Business Graphics, Basic Spreadsheets, Web Browsing

Entry Business



E54



E74



L151

Possible uses: Customer Service, Reception Areas, Education, Reservations, Server Console Monitor

FEATURED THINKVISION MONITORS



Look for the “p”

For the most ergonomic ThinkVision monitors, consider performance flat panel monitors, ranging in size from 15”–20” (381-511mm). All performance models feature a cantilevered stand that swivels, tilts and lifts to your liking.

Distinctive features include:

- Ergonomic stand for optimal viewing comfort
- Digital and analog inputs for flexibility and investment protection
- Viewing angles up to 178° and super-high contrast to enhance usability
- Easy Access buttons for common monitor adjustments
- Onscreen display for intuitive control of settings—no frustrating hunts through confusing menus
- Dual inputs to connect two systems to one monitor
- Optional ThinkVision USB Soundbar (L151, L151p, L171 and L171p)
- Pivot (L151p and L171p).

Accessories and upgrades



ThinkVision TFT Radial Arm
(monitor sold separately)
19K4464



Kensington MicroSaver Security Cable Lock from Lenovo*
73P2582



ThinkVision USB Soundbar
40Y7616

* Supports ThinkVision LCD monitors only.

To further customize, choose from a variety of accessories and get the most out of your monitor. Visit thinkpad.com/us or thinkpad.com/ca for more inspiration.

For important warranty information, see footnotes on the back panel.



CRT monitor specifications³:

Product	E54	E74	ThinkVision C170	ThinkVision C190
◆ Series	CRT Essential	CRT Essential	CRT Essential	CRT Essential
Model (Business Black)	6331P7N	6332PHN	6737P6N	6739P0N
Monitor size/Viewable image size	15" (381mm)/13.8" (350mm)	17" (431mm)/16.0" (406mm)	17" (432mm)/16.0" (406mm)	19" (483mm)/18.0" (457mm)
Monitor type	Shadow Mask	Shadow Mask	Full Flat Shadow Mask	Full Flat Shadow Mask
Recommended display mode	800x600@85Hz	1024x768@85Hz	1024x768@85Hz	1280x1024@85Hz
Maximum display mode	1280x1024@60Hz	1280x1024@60Hz	1600x1200@65Hz	1600x1200@75Hz
Technology				
Horizontal dot/pitch	0.24mm	0.23mm	0.22mm	0.22mm
Diagonal dot pitch	0.28mm	0.27mm	0.25mm	0.25mm
Vertical/horizontal frequency range	50-120Hz/30-69KHz	50-120Hz/30-696KHz	50-160Hz/30-85KHz	50-160Hz/30-96KHz
Maximum pixel frequency	110MHz	110MHz	135MHz	202MHz
Features⁴				
Anti-reflective/anti-static	•	•	•	•
ISO 9241-3/7/8 capable ⁵	•	•	•	•
TCO-compliant model	—	—	TCO-99	TCO-99
MPR-II compliant	•	•	•	•
VESA DDC Plug and Play enabled ⁴	1 and 2B	1, 2B and 2Bi	2B/2Bi	1 and 2B
VESA power management ⁶	•	•	•	•
Onscreen display (OSD) ⁷	• (5 languages)	• (6 languages)	• (5 languages)	• (5 languages)
Preset non-interlaced modes (VESA)				
640x480	60, 75, 85Hz	60, 75, 85Hz	60, 85Hz	75, 85Hz
800x600	60, 75, 85Hz	75, 85Hz	75, 85Hz	75, 85Hz
1024x768	60, 75, 85Hz	75, 85Hz	75, 85Hz	75, 85Hz
1280x1024	—	60Hz	75Hz	75, 85Hz
1600x1200	—	—	—	75Hz
1792x1344	—	—	—	—
1920x1440	—	—	—	—
2048x1536	—	—	—	—
Preset/user modes	10/08	10/08	9/15	15/13
Dimensions (HxWxD)	387x370x391mm (15.2x14.6x15.4")	400x400x412mm (15.7x15.7x16.2")	430x414x420mm (16.9x16.3x16.5")	468x456x458mm (18.4x18.0x18.0")
Weight	12.0kg (26.4 lb)	15.0kg (33.0 lb)	16.0kg (35.3 lb)	21.3kg (46.8 lb)
Operating environment	5–40° C, 10–90% humidity	0–40° C, 10–80% humidity	0–40° C, 10–80% humidity	5–40° C, 10–90% humidity
Storage environment	-20–45° C, 5–90% humidity	-20–45° C, 20–80% humidity	-20–60° C, 5–90% humidity	-20–65° C, 10–90% humidity
Power supply	90-264V AC, 50-60Hz	90-264V AC, 50-60Hz	90-264V AC, 50-60Hz	100-240V AC, 50-60Hz
Power consumption	75W (typical)	90W (typical)	70W (typical)	100W (typical)
Limited warranty¹	3 years	3 years	3 years	3 years

◆ CRT Essential models offer standard business features for value-conscious customers.

For important warranty information, see footnotes on the back panel.

NEW!**NEW!**

ThinkVision flat panel monitor specifications:

Product	ThinkVision L151	ThinkVision L151p	ThinkVision L171	ThinkVision L170m
❖ Series	TFT Essential	TFT Performance	TFT Essential	TFT Essential
Model (Business Black)	9205AB2	9205HB2	9417AB1	6734LB1
Display type	Active Matrix Thin Film Transistor (TFT) Liquid Crystal Display (LCD)	Active Matrix Thin Film Transistor (TFT) Liquid Crystal Display (LCD)	Active Matrix Thin Film Transistor (TFT) Liquid Crystal Display (LCD)	Active Matrix Thin Film Transistor (TFT) Liquid Crystal Display (LCD)
Specifications				
Monitor size	15.0" (381mm)	15.0" (381mm)	17.0" (432mm)	17.0" (432mm)
Brightness (typical)	250 cd/m ³	250 cd/m ³	270 cd/m ³	300 cd/m ³
Contrast ratio (typical)	450:1	450:1	500:1	450:1
Viewing angle (vertical/horizontal)	100°/120°	100°/120°	135°/140°	130°/150°
Response time (typical)	16ms	16ms	8ms	16ms
Pixel pitch	0.297mm	0.297mm	0.264mm	0.264mm
Display colors (maximum)	More than 16 million color combinations	More than 16 million color combinations	More than 16 million color combinations	More than 16 million color combinations
Active display area (horizontal x vertical)	304x228mm (12.0x9.0")	304x228mm (12.0x9.0")	340x272mm (13.4x10.7")	338x270mm (13.3x10.6")
ISO 13406-2 capable ⁵	•	•	•	•
TCO-compliant model	TCO-99	TCO-99	TCO-99	TCO-99
Functional features				
Native resolution	1024x768	1024x768	1280x1024	1280x1024
Video input	Analog	Analog or Digital	Analog	Analog
Dual input	—	15-pin D and DVI-D	—	—
Onscreen display (OSD) ⁷	• (6 languages)	• (6 languages)	• (6 languages)	• (5 languages)
VESA power management ⁶	ENERGY STAR	ENERGY STAR	ENERGY STAR	ENERGY STAR
Display modes	VGA, SVGA, XGA	VGA, SVGA, XGA	VGA, SVGA, XGA, SXGA	VGA, SVGA, XGA, SXGA
Multimedia	Optional USB Soundbar	Optional USB Soundbar	Optional USB Soundbar	Integrated speakers
Physical features				
Signal cable (provided)	15-pin D to 15-pin D	15-pin D to 15-pin D	15-pin D to 15-pin D	15-pin D to 15-pin D
Dimensions (HxWxD)	344x338x165mm (13.6x13.3x6.5")	471x338x213mm (18.5x13.3x8.4") max lift 361x338x213mm (14.2x13.3x8.4") max lift	382x367x162mm (15.0x14.4x6.4")	412x409x222mm (16.2x16.1x8.7")
Weight	3.6kg (7.9lb)	4.0kg (8.8lb)	4.6kg (10.1 lb)	6.6kg (14.5 lb)
Height adjustment	—	110m (4.3")	—	—
Tilt	0° forward, 30° backward	0° forward, 30° backward	4° forward, 30° backward	4° forward, 40° backward
Swivel	—	45° left, 45° right	—	—
Pivot*	—	•	—	—
VESA Mount	100mm	100mm	100mm	100mm
Kensington Lock Slot	•	•	•	•
Operating environment	10–35° C, 10–80% humidity	10–35° C, 10–80% humidity	10–35° C, 10–80% humidity	10–35° C, 10–80% humidity
Storage environment	-20–60° C, 10–90% humidity	-20–60° C, 10–90% humidity	-20–60° C, 5–95% humidity	-20–60° C, 5–95% humidity
Integrated power	•	•	•	•
Power supply	100-240V AC	100-240V AC	90-264V AC	90-264V AC
Power consumption	30W (typical)	30W (typical)	40W (typical)	45W (typical)
Limited warranty ¹ (parts/labor/backlight)	3 years	3 years	3 years	3 years

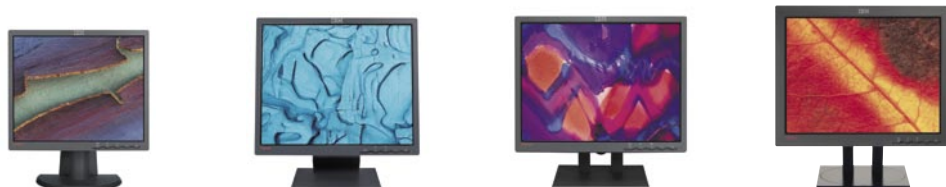
❖ TFT Performance models offer tilt, swivel and height adjustments, plus analog and digital system attachments.

TFT Essential models offer space savings over comparable CRT monitors and ThinkVision quality at entry-level prices.

* Graphic card-dependent.

For important warranty information, see footnotes on the back panel.

ThinkVision®



ThinkVision flat panel monitor specifications:

Product	ThinkVision L171p	ThinkVision L190	ThinkVision L191p	ThinkVision L200p
❖ Series	TFT Performance	TFT Essential	TFT Performance	TFT Performance
Model (Business Black)	9417HB7	9329AB9	9419HB7	6736HC9
Display type	Active Matrix Thin Film Transistor (TFT) Liquid Crystal Display (LCD)	Active Matrix Thin Film Transistor (TFT) Liquid Crystal Display (LCD)	Active Matrix Thin Film Transistor (TFT) Liquid Crystal Display (LCD)	Active Matrix Thin Film Transistor (TFT) Liquid Crystal Display (LCD)
Specifications				
Monitor size	17.0" (432mm)	19.0" (483mm)	19.0" (483mm)	20.1" (511mm)
Brightness (typical)	300 cd/m ³	250 cd/m ³	250 cd/m ³	250 cd/m ³
Contrast ratio (typical)	700:1	500:1	1000:1	400:1
Viewing angle (vertical/horizontal)	135°/150°	140°/140°	178°/178°	176°/176°
Response time (typical)	8ms	12ms	20ms	25ms
Pixel pitch	0.264mm	0.29mm	0.29mm	0.25mm
Display colors (maximum)	More than 16 million color combinations	More than 16 million color combinations	More than 16 million color combinations	More than 16 million color combinations
Active display area (horizontal x vertical)	340x272mm (13.4x10.7")	379x303mm (14.9x11.9")	379x303mm (14.9x11.9")	408x306mm (16.1x12.0")
ISO 13406-2 capable ⁵	•	•	•	•
TCO-compliant model	TCO-99	TCO-99	TCO-99	TCO-99
Functional features				
Native resolution	1280x1024	1280x1024	1280x1024	1600x1200
Video input	Analog or Digital	Analog	Analog or Digital	Analog or Digital
Dual input	15-pin D and DVI-D	—	15-pin D and DVI-D	15-pin D and DVI-I
Onscreen display (OSD) ⁷	• (6 languages)	• (6 languages)	• (6 languages)	• (6 languages)
VESA power management ⁶	ENERGY STAR	ENERGY STAR	ENERGY STAR	ENERGY STAR
Display modes	VGA, SVGA, XGA, SXGA	VGA, SVGA, XGA, SXGA	VGA, SVGA, XGA, SXGA	VGA, SVGA, XGA, SXGA, UXGA
Multimedia	Optional USB Soundbar	—	—	—
Physical features				
Signal cable (provided)	15-pin D to 15-pin D	15-pin D to 15-pin D	15-pin D to 15-pin D and DVI-D to DVI-D	15-pin D to 15-pin D and DVI-D to DVI-D
Dimensions (HxWxD)	491x368x205mm (19.3x14.5x8.1") max lift, 381x368x205mm (15.0x14.5x8.1") min lift	413x408x222mm (16.2x16.1x8.7")	457x408x237mm (18.0x16.1x9.3") max lift, 362x408x237mm (14.3x16.1x9.3") min lift	470x468x252mm (18.5x18.4x9.9") max lift, 390x468x252mm (15.4x18.4x9.9") min lift
Weight	5.1kg (11.2 lb)	6.1kg (13.4 lb)	7.1kg (15.7 lb)	9.5kg (20.9 lb)
Height adjustment	110mm (4.3")	—	95mm (3.7")	80mm (3.1")
Tilt	0° forward, 30° backward	0° forward, 40° backward	0° forward, 30° backward	0° forward, 30° backward
Swivel	45° left, 45° right	—	135° left, 135° right	45° left, 45° right
Pivot	•	—	—	—
VESA Mount	100mm	100mm	100mm	100mm
Kensington Lock Slot	•	•	•	•
Operating environment	10–35° C, 10–80% humidity	10–35° C, 10–80% humidity	10–35° C, 10–80% humidity	10–35° C, 10–80% humidity
Storage environment	-20–60° C, 5–95% humidity	-20–60° C, 5–95% humidity	-20–60° C, 5–95% humidity	-20–60° C, 5–95% humidity
Integrated power	•	•	•	•
Power supply	90-264V AC	90-260V AC	90-260V AC	90-264V AC
Power consumption	40W (typical)	40W (typical)	40W (typical)	65W (typical)
Limited warranty ¹ (parts/labor/backlight)	3 years	3 years	3 years	3 years

❖ TFT Performance models offer tilt, swivel and height adjustments, plus analog and digital system attachments.
 TFT Essential models offer space savings over comparable CRT monitors and ThinkVision quality at entry-level prices.
 For important warranty information, see footnotes on the back panel.

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