

IBM TFT Monitors



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For more information – <http://www.gstinc.com/store/Displays-C241.aspx>



Flat-Panel Monitors: 5 Things to Know

It's hard not to admire the sleekness of flat-panel displays. They are a perfect example of form combining with function to create a superior product.

So is it time for you to trade in your trusty cathode-ray tube (CRT) monitor for a stylish new liquid crystal display (LCD) model? Here's a look at what makes flat-panel LCD monitors appealing. And what might keep one off your desk.

#1..... You'll save some desk real estate.

The most obvious advantage of the flat-panel display is its size, or lack thereof. CRT monitors are big, bulky things. Their cabinets are about 20 inches deep. They work, but they're becoming *passé*.

All of the work in a flat-panel monitor is done behind its thin screen by liquid crystals and millions of transistors. So the flat panel doesn't need a deep case. If you are stretched for real estate on your desk, the small footprint becomes an overriding factor.

It's not just space savings for your computer desk. Some flat panels can do double duty as a television. To watch TV, you just hit a button on the flat panel or use the included hand-held remote control. You'll pay extra for this feature. But if your office quarters are cramped, one monitor lets you check e-mail as well as catch CNN or watch your favorite sit-com.

You'll also find flat-panel monitors that have built-in USB ports. This is especially handy if your computer has all four USB ports in the back of a tower on the floor under your desk. No longer do you need to under your desk to download pictures from your digital camera. You just plug the camera into one of the flat screen's USB ports and you're good to go.



#2..... You get a better picture.

There's another nice thing about flat panels — they're brighter. Generally speaking, text and graphics are easier to see on brighter monitors. Flat-panel displays are also usually crisper. Graphics and text have sharper edges.

This brings us to an important point: analog versus digital. CRT monitors use an analog signal, meaning it is carried on a wave. Flat-panel monitors can be either analog or digital. Many flat panels have connections for both.

Digital is sharper and therefore better. But whether you can use a digital flat panel monitor depends on the video card in your computer. To determine which technology is in your server find the card that is attached to your current display. You can probably install a digital-output card in your computer, if necessary. The card will run you less than \$100 to be flat-screen ready.

#3..... They're not cheap (though they save in energy costs).

While they've come down in price, there's still no getting around it: you'll pay a bit more for flat panels, although the gap in prices between CRT and LCD monitors has narrowed. LCD monitors are more costly because they are more difficult to manufacture.

You'll make up some of the difference on your power bill. Flat panels only use 30-40 watts of electricity. CRTs run about 110 watts. Over a year's time, those savings will make a small dent in your utility payments. That also means flat panels run cooler, making them more comfortable to be around.



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#4..... They still have some latency issues.

Traditionally, flat panels have had a problem with latency due to time wasted in refreshing your screen. Movement on the screen cannot be shown until the screen is redrawn by the computer. This is done many times per second, and is called the *refresh rate*.

The standard for CRT monitors is 85 times per second. You'll know if the refresh rate for a CRT monitor is too slow. It will flicker. Some CRT monitors can be refreshed more than 100 times per second. At these high rates, movement is smooth and the display is rock solid.

Flat panels don't redraw their screens this fast. Yet, because of their technology, they don't flicker. You'll never run into latency problems with office applications like word processing. Nor will there be a problem surfing the Internet.

But if you like to play fast computer games in your spare time, you could see latency flicker on a flat panel. Same is true for video editing. If you're into either in a big way, you'll want to check the response time specs on the flat-panel monitors you're considering. The lower the better.

You may also notice black or bright spots on the flat-panel screen. That comes from bad transistors behind the screen that are stuck on or off. Manufacturers consider a few bad transistors normal. One or two bad transistors probably won't bother you. But check a new screen carefully. If bad transistors irritate you, take it back.



StorFacts™ Report

#5..... Know some basic specs before buying.

If you decide a flat panel is for you, here are some of the minimum recommended specs you should look for:

Contrast: You want at least 300:1.

Resolution: Flat panels run best at their native resolution. These are the numbers you'll see, like "1024 by 768" for example. Try it in the store to be sure the panel's resolution is acceptable to you. If it's not, try other resolution settings to see if the picture is becomes more acceptable.

Angle view: A flat panel's picture will deteriorate quickly when viewed from an angle off of center. Look at the monitor in the store using the angle that's present at your desk.

Size: At least 15 inches.

Warranty: At least 3-years.

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L200P Flat Panel Monitor

The L200p flat-panel monitor has the following general characteristics:

- Business black color
- 20.1-inch TFT LCD digital screen with a viewable image size of 510 mm (20.1 inches) measured diagonally, incorporating a 0.255 mm pixel pitch/type for bright, high-definition images.
- Designed to provide flicker free operation at a maximum resolution of 1600 x 1200 pels at 75Hz in analog mode and 1600 x 1200 pels at 60Hz in digital mode.
- Tilt/swivel stand
- Attributes provided: Color Flat-panel Monitor
- Attributes required: Graphics Adapter



FC3637

IBM T541H /L150p 15" TFT Color Monitor

Both the T541H and L150p monitors have the following general characteristics:

- Business Black color
- 15-inch TFT LCD digital screen with a viewable image size of 381 mm (15.0 inches) measured diagonally, incorporating a 0.297 mm pixel pitch/type for bright, high-definition images.
- Designed to provide flicker free operation at a maximum resolution of 1024 x 768 pels at 75Hz in analog mode and 1024 x 768 pels at 60Hz in digital mode.
- Tilt/swivel stand
- Supports 2D Graphics Adapters only
- Attributes provided: Color Flat-panel Monitor
- Attributes required: 2D Graphics Adapter



FC3639

IBM ThinkVision L170p Flat Panel Monitor

The IBM ThinkVision L170p LCD flat-panel monitor has the following general characteristics:

- Business black color
- 17.0-inch LCD digital screen with a viewable image size of 432 mm (17.0 inches) measured diagonally, incorporating a 0.264mm pixel pitch/type for bright, high-definition images.
- Maximum resolution of 1280 x 1024.
- Tilt/swivel and height adjustable stand
- Analog or digital connection
- Dual input allows attachment to two systems concurrently.
- Internal power
- Depth: 237.0 mm (9.3 in.)
- Height: 457.0 mm (18.0 in.)
- Width: 400.0 mm (15.7 in.)
- Weight: 5.7 kg (12.6 lbs.)
- Viewing angle: Vertical 170 degrees; horizontal 170 degrees
- Contrast ratio: 500:1 (typical)
- Video inputs: 15-pin D / DVI-D
- Two removable cables: one analog and one digital
- Attributes provided: Color Flat-panel Monitor
- Attributes required: Graphics Adapter



FC3640

ThinkVision L171p Flat Panel Monitor

The ThinkVision L171p LCD flat-panel monitor has the following general characteristics:

- Business black color
- 17.0-inch LCD digital screen with a viewable image size of 432 mm (17.0 inches) measured diagonally, incorporating a 0.280mm pixel pitch/type for bright, high-definition images.
- Maximum resolution of 1280 x 1024.
- Tilt/swivel and height adjustable stand
- Analog or digital connection
- Dual input allows attachment to two systems concurrently.
- Internal power
- Depth: 237.0 mm (9.3 in.)
- Height: 457.0 mm (18.0 in.)
- Width: 400.0 mm (15.7 in.)
- Weight: 5.7 kg (12.6 lbs.)
- Viewing angle: Vertical 170 degrees; horizontal 170 degrees
- Contrast ratio: 800:1 (typical)
- Video inputs: 15-pin D / DVI-D
- Two removable cables: one analog and one digital
- RoHS compliant
- Attributes provided: Color Flat-panel Monitor
- Attributes required: Graphics Adapter



FC3641

IBM T115 Flat Panel Monitor

The IBM T115 LCD flat-panel monitor has the following general characteristics:

- Business black color
- 15.0-inch LCD digital screen with a viewable image size of 381 mm (15.0 inches) measured diagonally, incorporating a 0.297mm pixel pitch/type for bright, high-definition images.
- Maximum resolution of 1024 x 768 (XGA)
- Tilt adjustable stand
- Analog connection
- Internal power
- Depth (w/stand): 144 mm (6.67 inches)
- Height (max w/stand): 361 mm (14.2 inches)
- Width: 362 mm (14.2 inches)
- Weight: 2.9 kg (6.4 lbs)
- Contrast ratio: 400:1 (typical)
- Brightness: 250cd/m² (typical)
- Viewing angles (H/V): 130 degrees/100 degrees



FC3642

ThinkVision L191p Flat Panel Monitor

The ThinkVision L191p LCD flat-panel monitor has the following general characteristics:

- Business black color
- 19.0-inch LCD digital screen with a viewable image size of 483 mm (19.0 inches) measured diagonally, incorporating a 0.294mm pixel pitch/type for bright, high-definition images.
- Maximum resolution of 1280 x 1024.
- Tilt/swivel and height adjustable stand
- Analog or digital connection
- Dual input allows attachment to two systems concurrently.
- Internal power
- Depth: 237.0 mm (9.3 in.)
- Height: 457.0 mm (18.0 in.)
- Width: 408.0 mm (16.1 in.)
- Weight: 7.1 kg (15.7 lbs.)
- Contrast ratio: 1000:1 (typical)
- Video inputs: 15-pin D / DVI-D
- Two removable cables: one analog and one digital
- Attributes provided: Color Flat-panel Monitor
- Attributes required: Graphics Adapter



FC3643

IBM T120 Flat Panel Monitor

The IBM T120 LCD flat-panel monitor has the following general characteristics:

- Business black color
- 20.1-inch LCD digital screen with a viewable image size of 511 mm (20.1 inches) measured diagonally, incorporating a 0.255 mm pixel pitch/type for bright, high-definition images.
- Maximum resolution of 1600 x 1200 (UXGA)
- Tilt/lift adjustable stand
- Analog and digital connections
- Internal power
- Depth (w/stand): 246 mm (9.7 inches)
- Height (max w/stand): 416.6 mm (16.5 inches)
- Width: 445.6 mm (17.5 inches)
- Weight: 7.5 kg (16.5 lbs)
- Contrast ratio: 700:1 (typical)
- Brightness: 300cd/m2 (typical)
- Viewing angles(H/V): 178 degrees/178 degrees
- Video inputs: 15-pin D / DVI-D
- Two removable cables, one analog and one digital
- Attributes provided: Color Flat-panel Monitor
- Attributes required: Graphics Adapter



FC3644

IBM T119 Flat Panel Monitor

The IBM T119 LCD flat-panel monitor has the following general characteristics:

- Business black color
- 19.0-inch LCD digital screen with a viewable image size of 483 mm (19.0 inches) measured diagonally, incorporating a 0.294 mm pixel pitch/type for bright, high-definition images.
- Maximum resolution of 1280 x 1024 (SXGA)
- Tilt/lift adjustable stand
- Analog and digital connections
- Internal power
- Depth (w/stand): 246 mm (9.7 inches)
- Height (max w/stand): 443.6 mm (17.5 inches)
- Width: 418 mm (16.5 inches)
- Weight: 7.4 kg (16.3 lbs)
- Contrast ratio: 550:1 (typical)
- Brightness: 250cd/m2 (typical)
- Viewing angles (H/V): 140 degrees/135 degrees
- Video inputs: 15-pin D / DVI-D
- Two removable cables, one analog and one digital
- Attributes provided: Color Flat-panel Monitor
- Attributes required: Graphics Adapter



FC3645

IBM T117 Flat Panel Monitor

The IBM T117 LCD flat-panel monitor has the following general characteristics:

- Business black color
- 17.0-inch LCD digital screen with a viewable image size of 432 mm (17.0 inches) measured diagonally, incorporating a 0.264 mm pixel pitch/type for bright, high-definition images.
- Maximum resolution of 1280 x 1024 (SXGA)
- Tilt/lift adjustable stand
- Analog and digital connections
- Internal power
- Depth (w/stand): 246 mm (9.7 inches)
- Height (max w/stand): 395.5 mm (15.6 inches)
- Width: 375.4 mm (14.8 inches)
- Weight: 5.8 kg (12.8 lbs)
- Contrast ratio: 500:1 (typical)
- Brightness: 300cd/m² (typical)
- Viewing angles (H/V): 140 degrees/130 degrees
- Video inputs: 15-pin D / DVI-D
- Two removable cables, one analog and one digital
- Attributes provided: Color Flat-panel Monitor
- Attributes required: Graphics Adapter

