



Displays – CRT, LCD and Video Wall

Nanov Product Information.

Learn About Nanov Flat Screen

Nanov HDTV is a fully digital image processing system integrating high-definition digital imaging and image calibration technology. TVs and monitor imaging technology purges noise from image signals, restoring true colors, accurately displaying image details, and enhancing picture contrast and depth. The result is screen images that achieve a full three-dimensional sense and convincing realism.

Advanced digital technology, 1366x768 resolution, and high brightness and contrast ratios deliver brilliant colors and crisp images. Connect HD set top boxes, DVD players, game consoles and more through the multiple video and audio connections to build a **COMPLETE HIGH-DEFINITION HOME ENTERTAINMENT SYSTEM**. Two powerful 10-watt stereo speakers and SRS WOW virtual surround sound capability complete your immersive experience. HDMI digital input provides ease of connection with audio and video in one cable and long-term compatibility ensures you'll continue to enjoy high-definition video entertainment and computer graphics into the future

Digital technology deliver clearer, crisper, sharper images

Digital technology eliminate noise, increase contrast and detail and optimize color for rich, vibrant images. High-definition images look amazing and even standard television images are unbelievably smooth and sharp.

- Space saving designs
- Large viewing area
- View bright crisp images
- Incorporates the latest in digital technology
- Easy on the eyes
- Energy efficient
- Versatile and easily adjustable positions.
- Excellent warranty and customer service
- Competitive prices
- Knowledgeable TV/Monitor manufacturing company with over 50 years of experience in the industry.

- Diverse products : LCDs - 7", 10.4", 12.1", 15", 17", 19", 20", 23", 26", 32", 37", 42", 47", 84"
- TV/Monitors are built for Various Applications: Security, Consumer Electronics, Medical, Hotel, and Broadcasting Industries.
- Not available in electronics stores : Distributor/Dealer network
- Excellent quality : Better picture, affluent color, better brightness, better resolution, better panel
- Easy installation
- Full line of products and accessories.

Space saving design

Tight work area? Home office is also the guest room? Then a flat-panel monitor is ideal for you. A sleek, flat-panel monitor can be less than 7 inches deep; that's less than half the depth of a CRT. Plus, because LCD screens have no picture tube, they are much lighter in weight than their CRT counterparts, weighing only 10 to 13 lbs. (some are even lighter). Most CRT monitors are at least 15" deep and can easily weigh 30 pounds or more, so by having the smallest footprint of any monitor technology, LCD monitors give you more free space, a clear advantage over CRTs.

Large viewing area

Imagine buying a 15" monitor and getting more like a 17". Compared to CRTs, flat-panel monitors give you a much larger viewable area because nothing is lost to margins or the bezel. In other words, when you buy a 15" flat-panel monitor, you're getting the full 15" of diagonal viewing space.

View Bright, crisp images

Rich colors and amazing clarity are two big reasons to go flat. There are no concave angles, no distorted images at the edges of the screen and no focus problems. Straight lines are straight. And because of the exceptional clarity, you can actually view higher resolutions on smaller screen sizes. The graphics to the left show how improved resolution can enhance your viewing experience. Most flat-panel monitors support resolutions up to 1024 x 768 pixels in screen sizes ranging from 13" to 15". A 14.5" flat panel can display 1024 x 768 very well, as opposed to a 15" CRT, which is barely usable above 800 x 600.

Get the most out of digital technology

The latest flat panels are digital, producing higher quality images than analog flat panels because they eliminate the need to convert images from analog to digital signals. This makes for clearer, more detailed images. Note: Digital displays require a digital graphics card.

Easy on the eyes

Flat panels reflect ambient light away from your eyes, reducing glare and eyestrain, so put away the eye drops. Plus, flat-panel monitors produce no screen flicker problems, even at refresh rates as low as 60Hz.

Energy efficient

One big advantage that flat-panel monitors have over CRTs is their energy efficiency. Flat panels require half the power of CRTs and emit less electromagnetic radiation, which can interfere with other electronic devices. So while a CRT monitor will cost less to purchase, a flat panel will conserve energy in the long run and save you money.

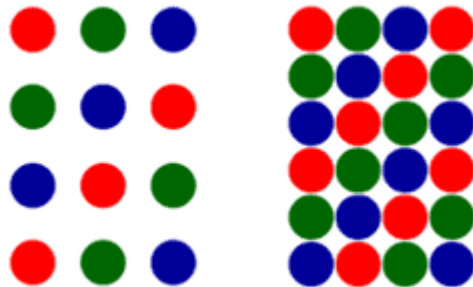
Versatility

Some LCDs offer a wide range of adjustment and easy motion. Some can be rotated from landscape to portrait orientation. Many are designed to attach to arms that conform to a VESA mounting standard, which means they can be mounted on a wall, saving even more space.

Crisper images via lower pixel pitch

One of the most important things to look for when choosing a monitor is pixel pitch. Pixel pitch is the measurement of the distance between two pixels of the same color on a color monitor. The smaller the pixel pitch, the less space between the pixel and therefore, the sharper the picture.

Flat panel monitors feature lower pixel pitch values, which result in sharper graphics and images versus those on a CRT monitor. The illustration to the right shows how a smaller pixel pitch (right column) can make a viewing difference.



Improved viewing angle

If you need to see an image when you're not directly in front of the display, look for a design with a wide viewing angle. One of the complaints of early LCD monitors was the limited viewing angle, resulting in a distortion of image when not directly in front of the screen. The latest flat-panel monitors have improved enough that even two people can view the screen at the same time without difficulty. If viewing angle is important to you, keep this in mind: the maximum viewing angle should be as wide as possible, ideally greater than or equal to 120 degrees vertically. It's recommended that for a 15" flat panel, you should try to get a 140-degree viewing angle, and increase that by 20-40 degrees when shopping for an 18" flat panel.

Greater contrast for sharper images

Contrast ratio is a very important attribute of a flat-panel monitor since the range from the lightest light to the darkest dark has an impact on image quality. So when looking at monitor specs, the bigger the contrast ratio the better. The illustration to the left shows how contrast ratio can affect the sharpness of a digital image.

Learn About LCDs

LCD (Liquid Crystal Display) TVs are thin and flat. Generally, LCD TVs have smaller screen sizes than plasma displays because of the intricate manufacturing process needed to create the LCD panels. However, as these processes continue to improve, the screen sizes keep getting larger.

LCD, or Liquid Crystal Display, technology has advanced very rapidly since its initial inception over a decade ago for use in laptop computers. Technical achievement has resulted in brighter displays, higher resolutions, reduced response times, and cheaper manufacturing processes. It has also allowed manufacturers to greatly increase screen size. Whereas most introductory LCD screens only offer 14 to 19-inches of viewable area, the newest LCD monitors now are available at Nanov, 7", 10.4", 12", 14", 15", 17", 19", 20", 23", 26", 32", 42", 47", 57"- inches.

Liquid crystal displays work by trapping a liquid crystal solution between two panes of polarized glass. The liquid crystals can be manipulated through an applied electric voltage so that light is allowed to pass or is blocked. By carefully controlling where and what wavelength (color) of light is allowed to pass, the LCD monitor is able to display images. A backlight provides the LCD monitors brightness, and generally has a lifespan of approximately 60,000 to 80,000 hours - about 20 - 25 years of daily 8-hour usage.

Over the years, many improvements have been made to LCD technology to help enhance resolution, image sharpness and response time. One of the latest such advancements is TFT, or thin film transistors. TFT-LCDs make use of a very thin transistor that is applied to glass during the manufacturing process. The TFT further acts as a switch, allowing control of light at the pixel-level, greatly enhancing resolution and image sharpness. This has been particularly important for improving LCDs ability to display small-sized fonts and images clearly.

Other advances have allowed LCDs to greatly reduce liquid crystal cell response times. Response time is basically the amount of time it takes for a pixel to 'change colors'. In reality, response time is the amount of time it takes a liquid crystal cell to go from being active to inactive. Response time is described in milliseconds, with the best LCD monitors now coming in at 20 ms and less in response time. Older models often averaged 25-45 ms, leading to a blurring effect when the monitor displayed motion, particularly during gaming or video playback.

How it works: an overview

In general terms, an LCD TV has a backlight that constantly shines through the LCD panel. The liquid crystals are aligned in red, green, and blue patterns—when combined, these liquid crystals equal one pixel. When voltage is applied to the liquid crystal, it opens to allow light to pass through so that the specific color can be displayed on the screen for each pixel. The pattern of all of the pixels combined

creates the total picture on the screen (like a color photograph in a newspaper).

LCD features:

Resolution - higher/more is better

- Brightness - measured in cd/m^2 (candelas per meter squared), more is better
- Contrast ratio - the higher the first number, the better (e.g., 500:1)
- Viewing angle - wider is better
- Response time - measured in milliseconds (ms), lower is better (the smaller the number, the faster the response time)

What can TFT LCD Technology do for me?

Below is just a small list of what TFT LCD technology can do for your business or home environment.

- 1.) Radiation - TFT LCD technology virtually eliminates radiation which is emitted from normal CRT monitor and can promote a healthier computing environment for your children at home and/or your work environment.
- 2.) Low Power Consumption - [LCD monitors](#) have a power consumption of about half of the equivalent CRT monitors.
- 3.) Color - Colors on LCD's are much more vibrant than CRT monitors.
- 4.) Physical Size - One of the main advantages is the size difference. LCD monitors cover about 30% of the desk used by a standard CRT.
- 5.) Viewable Area - Now here is the kicker, if you buy a 17" CRT monitor, it's safe to say that you will have an actual viewing area of about ~16". Now, when a TFT LCD is said to be 17", the viewable area IS 17", which is a far more honest approach to marketing

Rugged. Sleek. Bold. Beautiful. Dependable. Space-saving. Medical-grade. Clever ergonomics. Ripping-fast graphics. When it comes to displays, everyone has their own needs. That's why we offer a wide variety of products designed specifically with your application in mind. So whether you want a flat-panel LCD monitor, a medical display, an LCD TV, plasma television or an embedded display, chances are we've got the right one for you.

Nanov LCD TVs combine today's most advanced, must-have features, such as picture-in-picture, integrated stereo speakers and remote control, with stylish design and competitive prices. Rich, vibrant colors and dazzling graphics make these displays ideal for video games, DVDs or your favorite TV show. Our LCD TV monitors feature high contrast, high brightness displays and an anti-glare, anti-reflective coating. Each LCD TV has an ultra slim, space saving design and can easily be wall mounted. Our 15" and 17" models can be used as both a TV and a PC monitor.