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## **Developing computer monitor technology means more benefits for users**

*Emcor Enclosures specializes in making your working environment flexible*

Rochester, MN – Flat panel monitors with liquid crystal displays (LCD), have made a significant impact on the computer monitor industry over the past few years with their slim design, flexibility and enhanced viewing technology. Industries are quickly jumping on the bandwagon as they see the benefits of trading out their old monitors for the new and improved flat panel monitors.

As offices become more cluttered, one of the greatest benefits of the LCD monitor is they take up considerably less real estate on the desk, providing a more usable work surface. Moreover, LCD monitors, on average, weigh half as much as a cathode ray tube (CRT) model and are considerably thinner, allowing for greater flexibility and the option of mounting.

If you're looking to maximize space and flexibility even further, Emcor® Enclosures offers flat panel display consoles allowing you to capitalize on this new technology.

"Emcor Enclosures has developed a new line of security consoles solely around the flat panel monitor," explained Ed Doran, Emcor Marketing Manager. "Our new FP1 and FP2 security consoles were designed specifically for use with flat panel monitors. In fact, the FP designation stands for flat panel."

These Emcor products offer modular capabilities, customized to meet specific customer specifications. They are suited for both single desk surveillance applications and larger scale command and control environments. The flat panel monitor arms, on hidden slatwalls, allow the user to adjust the monitor and increase the visibility and efficient use of space. The smaller monitors are especially useful for security and surveillance applications as they allow greater visibility over and around the screens.

(more)

Another advantage of the flat panel monitor is a brighter picture. The LCD screen provides crisper images and text while the flatter viewing screen reduces glare, allowing for an enhanced viewing experience. While a CRT monitor is constantly being refreshed so your eyes have to work hard to absorb the information, the LCD monitor turns each pixel off individually so they do not produce the flicker you experience when viewing a CRT display. This improvement greatly reduces eye fatigue and strain.

Furthermore, while LCD monitors are still more expensive than the traditional CRT monitors, the money offices save in the energy will outweigh the expense of trading out the old monitors. Using only approximately 30 to 40 watts of electricity versus the 100 watts a CRT monitor employs, will save a considerable amount on the annual electricity bill.

As momentum continues to grow, prices are dropping and more companies are purchasing flat panel monitors because they see a plethora of benefits for their employees and operations. However, in addition to user benefits, it's interesting to consider the history of the technology and how it's evolved over time, to fully understand why flat panel monitors are making such a splash in the computer industry.

LCD technology was actually developed in the early 1960's by two professors and a graduate student at the University of Illinois, but hadn't been marketed for computers until recently.

LCD offers a more sophisticated display technology; basically an enhanced technology from what was initially used in digital watches. Essentially it's a mesh of tiny crystals displaying different colors when electrified. The monitors are made of two pieces of polarized glass that contain a liquid crystal material between them. A backlight creates light that passes through the first substrate, while at the same time; electrical currents cause the liquid crystal molecules to align and varying levels of light to pass through to the second substrate to create the colors and images you see.

In comparison, the traditional CRT monitor is more archaic with magnets, tubes and beams shooting millions of tiny red, green, and blue phosphor dots that glow when struck by an electron beam that travels across the screen to create a visible image.

With rapidly advancing technology, companies are finding it necessary to address these shifting dynamics to meet the demands of growing industries. Due to the increasing demand for LCD monitors, the computer monitor industry has evolved. With this shift, other industries are recognizing the need for advancement in monitor technology as they see users benefiting from size, flexibility, less eyestrain, lower power consumption and better image contrast with flat panel monitors.

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