

Touch Screen Monitors

All standard 12" through 20" *TRU-Vu* monitors are available with resistive or capacitive touch screens, and USB or RS-232 versions.

A Resistive system consists of glass monitor panel that is composed of several layers. The two most important are two thin metallic electrically conductive and resistive layers separated by a thin space. When an object touches the touch screen panel, the layers are connected at that exact point. The change in the electric field is noted and the coordinates of that point calculated by the computer, much the same as a mouse driver translates a mouse click or drag.

Resistive touchscreen panels are generally the most affordable technology but only offer about 70% clarity (vs. 90% for capacitive), and the outer layer can be damaged with sharp objects. Resistive touchscreen panels are not affected by outside elements such as dust or water and are the most common type used today.

In capacitive system, the monitor panel is coated with a material, typically tin oxide, which conducts a continuous electrical charge across the surface. The human body also stores electrons and also exhibits capacitance. Capacitance is a durable technology that is used in a wide range of applications including point-of-sale systems, industrial controls and public information kiosks. Its primary advantage is that it transmits 90% of the light to the monitor, whereas the resistive system only transmits about 75%. This gives the capacitive system a much clearer picture than resistive technology. However, it only responds to finger contact and will not work with a gloved hand or pen stylus.

Contact us for more details. Data sheet will be available shortly.