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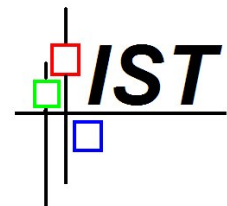


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COMPONENT DISPLAYS



A comprehensive range of alphanumeric and graphic LCD's in both STN and FSTN technologies, incorporating COB, TAB & COG modules. Character displays from 8 x 2 line format through to 40 x 4 lines. Large character models available in most formats with LED (inc. white) and EL backlighting options. Graphic displays from 96x64 dots through to 320x240 dots QVGA covering all the popular and some not so popular resolutions. Other features include on-board graphic LCD controllers, LED and EL backlighting options plus wide temperature operation versions available at no extra cost.



Powertip have also now have a strategic alliance with CMEL to take their TFT glass and produce an excellent and growing range of TFT LCD. The current range consists of a 3.5" QVGA, 4.3" WQVGA, 5.7" QVGA and full VGA plus 7.0" WVGA all with white LED backlighting with all but the 7.0" having a 4-wire resistive touch option. Another excellent feature on the smaller displays making them more application friendly is the addition of CPU interface and on-board LED backlight driver options.



With OLEDs prominence now becoming significant Powertip again using CMEL panel are now supplying an AMOLED range of displays, the current range offers 2.0", 2.4", 2.8", 3.4" and 4.3" sizes with larger sizes up to 7.0" due to be released during 2010.



TFT LCD from the world's premier LCD supplier to the industrial OEM equipment market.

Sizes from 3.5" 240xRGBx320 through to 10.4" 640xRGBx480 including the key sizes in the industrial field 4.7" and 5.7" with the latter available in both QVGA and full VGA. Kyocera have focused their attention on key areas such as hi-brightness, compact design and guaranteed long product life, which are important factors when designing industrial and medical products. Other features include white LED backlighting options, symmetrical bezel design, long life backlights and factory integrated film/glass and now the latest glass/glass resistive touch overlays.



An excellent range of monochrome character and graphic LCD. Character modules from 7x2 lines through to 40x4 a line encompassing all the usual formats in between. The extensive graphics LCD range incorporates the latest in COB, TAB and COG technologies with LED (inc. white and blue) and EL backlighting available as standard on all models. Other features include on-board graphic LCD controllers, wide operating temperature and single 5v or 3V supply options.



Bolymin's drive for dominance in the small to medium size display market has seen them move into the OLED market with a small but growing range of both monochrome and full colour panels. Sizes start at a compact 3/4" diagonal, 96x32 dot resolution through to a 3.12" diagonal, 256x64 dot resolution.

COMPONENT DISPLAYS (cont.)



Bolymin's small range TFT LCD video modules are ideal for a host of video surveillance/door entry system applications. The colour TFT LCD is paired with a compact video (CVBS + VGA for 4.3" and 7.0" sizes) driver board, OSD demo board plus mounting bracket and full cabling. Currently there are five sizes available 2.5", 3.5", 4.0" with 4.3" and a 7.0" wide screen formats. All the modules have white LED backlighting and are powered by a single 12VDC input.

Bolymin Embedded display systems feature a high performance, low power 8 & 16 bit microprocessors and are available from a simple 20 character x 2 line device through to a 320x240 QVGA module. All models have a 64kb in-system programmable flash, 4~8KB SRAM and 64KB Weternal I²C CMOS EEPROM. Modules include at least one RS232 port with the second port being switchable between RS232, RS422 and RS485. A touch option is available on the graphics versions, all modules are driven by single DC voltage from between 2.7V~5.5V. A comprehensive set of development tools and application notes for self programming are supplied.



A small but dedicated range of hi-end TFT LCD with the focus on high brightness and super high contrast. Standard brightness base panels are actively enhanced by removing the existing backlight unit (BLU) and replacing it with either a white LED BLU (backlight unit) or a new CCFL lamp assy. which produces super hi-brightness TFT LCD suitable for direct sunlight viewing. With super hi-contrast (1500:1 ratio) long life LED and CCFL backlights plus wide operating temperature (-30~70°C) our panels are suitable for a host of industrial and medical applications where performance is the key factor. Panel sizes start at 6.4" diagonal and cover all the popular sizes right up to 38.0". We can also offer driver boards and full cabling with matching performance for all panels to suit whatever application and environment.



A comprehensive range of small to medium size TFT LCD with driver board combinations, video NTSC/PAL & Analogue RGB inputs. Sizes start at 2.5" (480xRGBx234) and run through to 15.0" XGA. Applications include portable video monitors, door entry systems plus a host of industrial OEM equipment. Features include hi-resolution video dot formats, 16:9, 15:9 and 4:3 aspect ratios, all small size panels have white LED backlighting whereas the larger sizes have hi-brightness CCFL.



Custom designed LCD panel specialist, from simple monochrome LCD panel only to complex modules including PCB, LED and EL backlights, zebra strip connections and bezel. Low cost NRE/Tooling charge plus a low MOQ of just 1kpcs on most designs.



PANEL MOUNT/OPEN FRAME (TOUCH) MONITORS



A superior range of Touch and Non-Touch monitors available in two basic formats "Closed Frame" and "Open Frame". Both are ideal for cost sensitive applications such as Casino Gaming, Retail and a host of kiosk applications. All are designed to be easily integrated into your unique system enclosure and can be supplied with various touch technologies depending on your environment and budget.



Sizes from 10.4" to 42.0" and satisfy a broad range of application needs. For touch versions we can offer Resistive (both 4 & 5 wire), Capacitive, SAW (Surface Acoustic Wave) and Infrared.

Monitor features include hi-brightness, typically 550cd/m² although 2000cd/m² is also possible, hi-contrast, fast response times (suitable for gaming machines) and multiple inputs (analogue RGB, DVI, composite & s-video). All models benefit from a rugged steel enclosure or mounting frame and hold CE, VSSI, FCC and RoHs approvals.

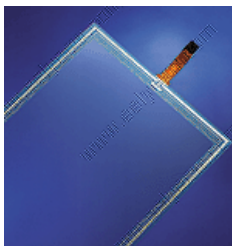
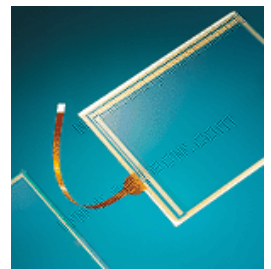


TOUCH OVERLAYS

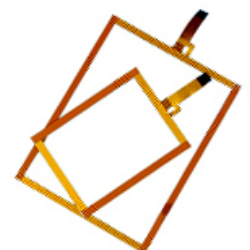


Eely-ECW produce an extensive range of 4-Wire Resistive, 5-Wire resistive and Capacitive touch overlays suitable for a host of applications and environments.

The 4-Wire resistive sensors offer a transmissivity of >83% and are available from 2.8" to 21.0" diagonal and cover all the popular LCD panel sizes in between. Sensors can also be supplied with either normal or chemically strengthened glass, have a life expectancy of >1million touches on a single point and have a touch resolution of 4096x4096.



The 5-Wire Resistive product offers better ruggedness over the 4-Wire and will in fact continue to operate even with the front film damaged. Sizes from 5.8" through to 21.0" and again cover all the popular LCD panel sizes in between. Transmissivity is >83% and the resolution is 4096x4096. The life expectancy over the sensor is >35million touches on a single point. Sensors can also be supplied in both normal and for more hostile environments chemically strengthened glass.

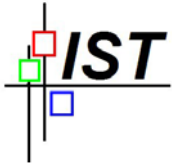
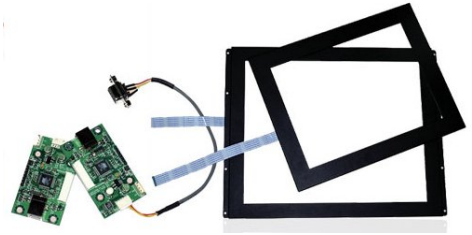


Pure glass Capacitive sensors with >90% light transmission offer excellent rugged properties and have a life expectancy of over 225 Million touches (single point). They are the choice for a host of applications where the users will be un-supervised public. Flat display sizes from 6.5" through to 21.0" diagonal with a resolution of 4096x4096, sensors are available with either an RS-232 and USB controller.

TOUCH OVERLAYS (cont.)

NEXIO

For true hostile environments Infrared touch has stood the test of time, with excellent sealability, light transmissivity (92~100%), extremely wide operating temperatures (-40-+50°C) and excellent anti-vandal properties. IR touch is the choice for outdoor kiosks and other extreme applications. With a Touch Resolution of 16,384 x 16,384 and with standard sensors from 10.4" to 100.0" most applications can be accommodated, however custom solutions are also welcome.

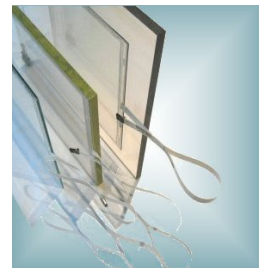


IST's range of IR touch sensor clip-on overlays for large LCD or Plasma monitors. The frames are designed to utilize existing mounting holes on the monitor housings and are bolted on for security. Frames are supplied with either RS-232 or USB Touch interface and full software for quick and easy integration. Sizes from 30.0" to 103.0" diagonal, with custom sizes also available.

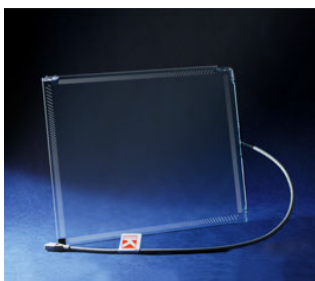


20.1" diagonal with custom enquiries also welcome. Sensors can be supplied with either an RS-232 or USB controller.

Ultra Touch from AD Metro is based on the 5-Wire Resistive technology however instead of the easily damaged front film the front layer is a flexible glass/polymer laminate which results in an extremely rugged sensor suitable for a host of hostile environments. Sensors will tolerate extreme vandalism abuse, liquid and cold. Sizes from 6.4" to



Glass/Glass 4-Wire Resistive touch from Kyocera is the latest development in resistive touch technology. Glass/Glass touch offers a superior performance over the traditional film/glass, with excellent scratch resistance, an optical clarity of >85% wide operating temperature range of -30~+85°C, a lifetime of 100M touches on a single point plus being hermetically sealed for superior water and humidity resistance, Glass/Glass touch is the choice of developers in today's tough environments. To further enhance the performance the front surface can also be treated with the following coatings, anti-reflection, anti-glare, anti-finger print and a polariser coating. Glass/glass touch is available in sizes from 3.5" diagonal through to 19.0" diagonal (4:3) encompassing all the popular display sizes in between.



Keetouch's Pure glass Surface Acoustic Wave Touch sensors, which have a light transmissivity of >90% are available for flat displays from 8.4" to 47.0" and CRTs from 15.0" to 19.0". 6mm Tempered glass sensors can be supplied for rugged applications subject to vandalism and cold etc. with its surface hardness of 7 mohs the sensors are very difficult to scratch or cut using sharp instruments. Sensors are supplied with either a USB or RS232 interface for ease of use. Applications include gaming machines and public information kiosks.

THERMAL PRINTING



A comprehensive range of ultra compact thermal printers, from simple mechanisms to portable stand-alone and panel mount versions. This exceptional product range represents an effective printing solution for present and future needs which has enabled our printers to be used in a wide range of industries such as retail sales, transportation, hospitality, gaming and healthcare to name just a few. Features include silent direct thermal technology, serial & IrDa or **Bluetooth** interfaces, built-in magnetic and smart card readers some models, hi-resolution (203dpi or 8dots/mm), hi-speed (typically 50~80mm/sec), IP54 rated, clamshell design for ease of paper loading plus self adhesive label roll printers. CE, UL, FCC approved.



Mitani's Thick film thermal printheads are available in "Side-face", "Bevel Edge" and "Normal" technologies. Mitani's range is regarded as the world's largest in thick film technology with print widths starting at 25mm (1.0") and going through to 216mm (8.0") with various resolutions between 3 dots/mm and 8 dots/mm. This range of printheads is designed to print on a host of different media, from self-adhesive labels on food packaging to the packaging itself as well as plastic and metal cards. Thick film technology printheads have an excellent record working in environments where a dusty and a high concentrate of air pollutants can seriously reduce print quality and ultimately print head life.



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