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Displays - Components



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) 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 CCFL backlighting options plus wide temperature operation versions available at no extra cost.

Powertip's TFT LCD range starts at a 1.44" QQVGA (128x128) resolution panel and covers all the key industrial sizes up to 7.0" WVGA (800x480) including the mobile phone size displays 2.4" and 2.8". These industry standard products allow you to design with confidence in the knowledge that the supply is guaranteed for sometime. The current range all come with white LED backlighting with all but the 7.0" having a 4-wire resistive touch option, the 3.5", 4.3" and the 5.7" can also be supplied with a capacitive touch. 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.



TFT LCD from the world's premier LCD supplier to the industrial OEM equipment market. Sizes from 5.7" QVGA through to 12.1" including the key sizes in between with larger sizes currently under development. Kyocera have focused their attention on the important areas such as hi-brightness, compact design and guaranteed long product life, key factors when designing industrial and medical products. Other features include white LED backlighting, symmetrical bezel design, long life backlights, wide operating temperatures, transmissive and transmissive technology plus factory integrated film/glass and now the latest glass/glass resistive touch overlays.



Data International Co. Ltd (Data Vision) offer a superb range of super high brightness sunlight readable TFT LCD using a combination of high brightness LED backlights and the technique of optical bonding giving these LCDs superior performance in direct sunlight and all high ambient light viewing applications.

The current range starts at a 3.5" QVGA panel offering an impressive brightness of 800nits which is followed by a 4.3" WQVGA 1000nit panel, two 5.7" panels, one QVGA and one full VGA with 1200nit and 900nit brightnesses plus two 7.0" WVGA both with a brightness of 1000nits but one with a TTL and the other with an LVDS interface and lastly their 8.0" SVGA, 1300nit panel again with an LVDS interface.

Further enhancements to this excellent TFT LCD range are their "SR Resistive Touch" which gives excellent performance for both colour saturation and contrast in high ambient light applications plus their QVGA 5.7" panel is now also available with an on-board graphic LCD controller making interfacing to your application a lot simpler and faster.

Displays - Components

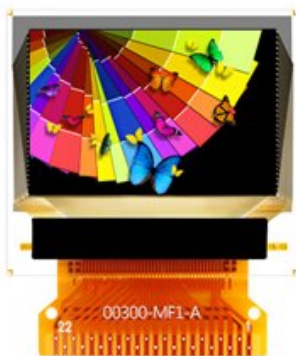


An excellent range of monochrome character and graphic LCD. Character modules from 7x2 lines through to 40x4 a line encompassing all the usual formats in between. The extensive graphics LCD range incorporates the latest in COB, TAB and COG technologies with LED (inc. white and blue) and EL backlighting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

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 1" diagonal, 96x64 dot resolution through to a 3.12" diagonal, 256x64 dot resolution.

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 external 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.



Visionox offer an exceptional range of PMOLED displays in white, blue, amber, green and full colour with sizes from 0.68" through to 2.8" diagonal in the monochrome range and from 0.95" to a 1.12" in the full colour range, 16 level grey scale versions are also available within the mono range. With OLEDs very low power consumption, super fast switching speeds, extremely wide viewing angles and an excellent environmental specification OLEDs are suitable for a host of applications requiring vibrant, high contrast displays.

To further demonstrate Visionox's commitment to OLED they are investing heavily and creating new aspects for this technology. Under development are transparent OLEDs, where the non-illuminated pixels appear highly transparent making the illuminated image seem superimposed, super flexible substrate versions where the traditional glass substrate has been replaced by either a bendable plastic or metal, and lastly dual sided displays where the same or different image can be shown on both sides of the display. All these innovations give us the confidence to bring Visionox's OLEDs to the UK industrial market.

Displays - Components



A superb range of high brightness and super high contrast TFT LCD. 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". The panels can be supplied on their own with matching backlight inverter, as a kit of parts including A/D driver board and full cabling or as an openframe monitor.

Monitors – Panel Mount/Open-Frame (TOUCH)



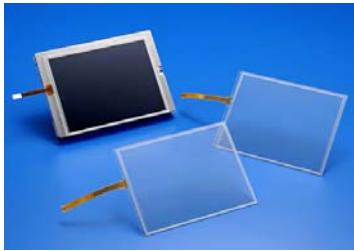
A superior range of Touch and Non-Touch monitors available in two basic formats "Closed Frame" and "Open Frame". Both are ideal for cost sensitive applications such as Casino Gaming, Retail and a host of kiosk applications. All are designed to be easily integrated into your unique system enclosure and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

Sizes from 6.4" 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.

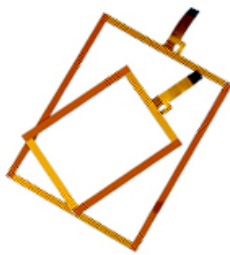
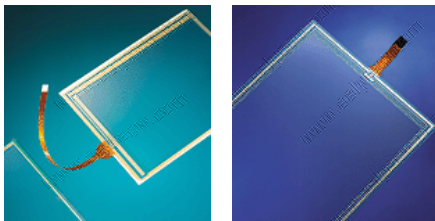
Monitor features include hi-brightness, typically 550cd/m² although 2000cd/m² is also possible, hi-contrast, fast response times (suitable for gaming machines) and multiple inputs (analogue RGB, DVI, composite & s-video). All models benefit from a rugged steel enclosure or mounting frame and hold CE,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



Touch - Components



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 $-30\sim+85^{\circ}\text{C}$, 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.

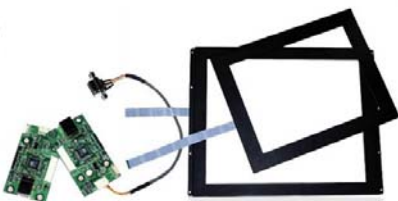


Eely-ECW produce an extensive range of 4-Wire Resistive, 5-Wire resistive and Capacitive touch overlays suitable for a host of applications and environments.

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.

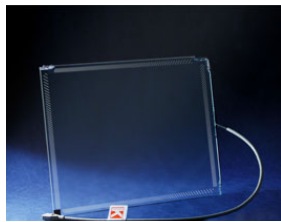


For true hostile environments Infrared touch has stood the test of time, with excellent sealability, light transmissivity (92-100%), extremely wide operating temperatures ($-40\sim+50^{\circ}\text{C}$) and excellent anti-vandal properties. IR touch is the choice for outdoor kiosks and other extreme applications. 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.

Touch - Components



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



KeeTouch[®]

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 – Mechanisms, Panel Mount, Mobile

Woosim
system



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. 1", 2", 3" and 4" direct thermal print widths 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.

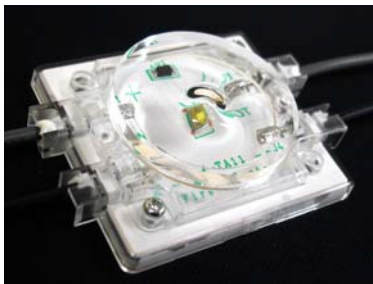


Thermal Printing - Heads



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.

LED Lamps – Illumination Systems



First System brings you the latest in LED lighting/illumination systems for all types of illuminated signage and architectural lighting applications. They offer two basic systems "TAIKOO" which is for single sided illuminations and "TYGA" for dual sided illuminations.

Both systems offer superior operation over the more traditional fluorescent tubes by way of LED lamp life, power consumption, ruggedness and flexibility in mounting.



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