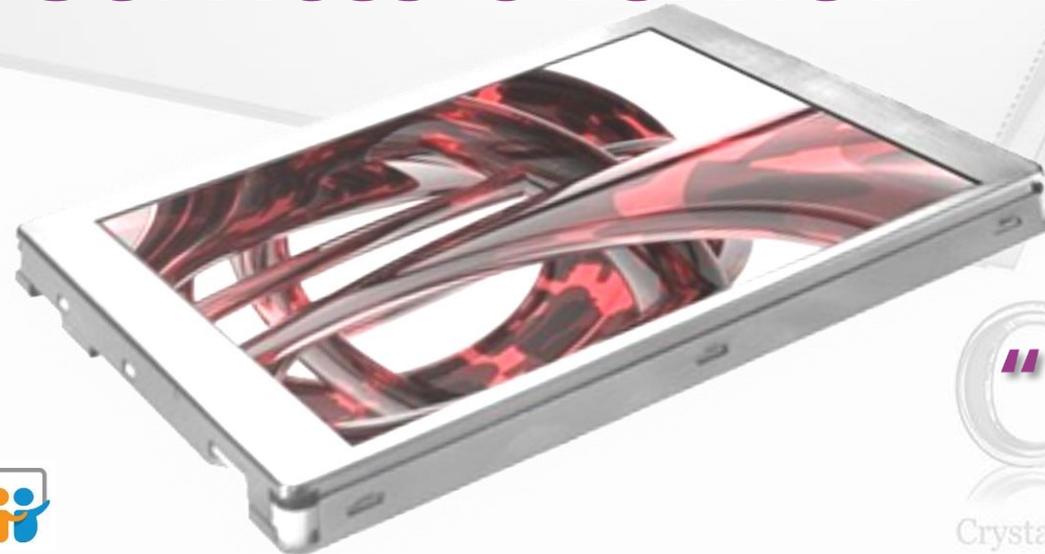


Industrial, Gaming, & Commercial Displays



Products & Services Overview



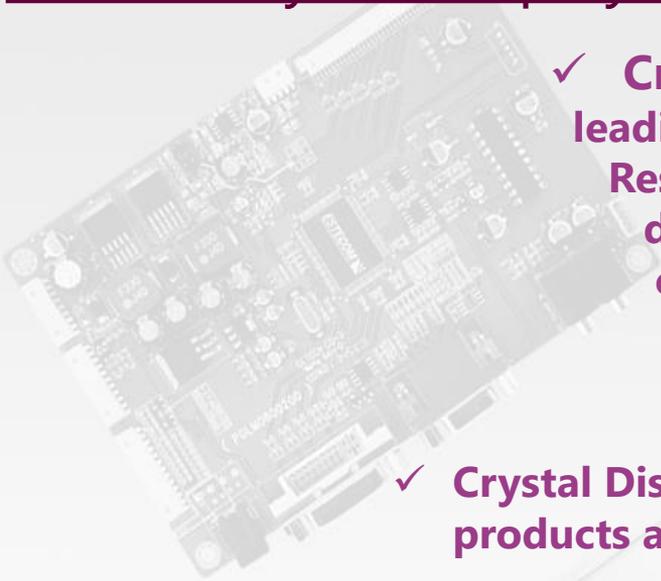
"2017"
Crystal Display Systems Ltd



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Who is Crystal Displays and what do we do?



✓ **Crystal Display Systems Ltd. is a leading U.K. Designer, Value Added Reseller, and Distributor of Flat panel display solutions with global customers and partners.**



✓ **Crystal Displays offers Industrial, Retail and Digital Signage products as well as related products and services.**

✓ **Additional capabilities/services include:**

- ✓ **Design consultation**
- ✓ **Demo /Sample program**
- ✓ **Customised Display kits**
- ✓ **Complete after sales service**
- ✓ **Repair services**
- ✓ **Extended warranty program**
- ✓ **Optical bonding services**
- ✓ **Touch screen integration**
- ✓ **Hibrite solutions**
- ✓ **Widest range of transparent Display kits and showcases**
- ✓ **Full range of Retail Displays**

Kit solutions

TFT LCD Panels

Small Scale and
large format TFTs



Extended Temperature

Different input options



Integrated touch options

Ultra thin panels

Ultra-high High resolutions

Wide viewing angles



Various resolutions

Full Range of Interface Card Solutions

This excellent range of industrial interfaces offer high quality / high reliability solutions with all inputs required driving displays up to 4K (3840 x 2160). These are offered as stand alone boards, kits solutions with cables / connectors etc.. or as fully tested kit solutions including the TFT panel and touchscreens.



Product Name	PCB Dimension	Inputs	Outputs	Max Resolution
PI Series	100 x 150 x 16mm	RGB, DP, HDMI, Y/Pb/Pr, PC Sound	LVDS, Speaker	1920 x 1080
PO Series	96 x 96 x 15mm	RGB, DVI	LVDS, TTL	1920 x 1080
PS Series	100 x 120 x 7.2mm	RGB, DVI, CVBS, External I2C	LVDS, Audio	1920 x 1080
C Series	110 x 150 x 17mm	RGB, DVI, CVBS, SVHS, Y/Pb/Pr, 10W Audio	LVDS	1920 x 1080
O Series	100 x 150 x 16 mm	RGB, DVI 2W Audio	LVDS	1920 x 1080
M Series	257 186 mm	HDMI 1.4a/30Hz DP/DVI-D/RGB	Vby1	3840 x 2160 and 1920 x 1080
Pro-4K	160 x 110 mm	VGA, DP1.2, HDMI 2.0 HDMI1.4 @60hz	10bit 8-lane V-By-One and 4-lane eDP	4096 x 2160

Open frame glass to glass & Touch screen monitors



Panel PCs (AIOs)

We specialize in Panel PCs and have a vast range of options now available. We can supply our solutions in many different formats to suit your application. Our sizes start as small as 6.5" diagonal, right up to 65". We test all our panel PC's for each application for optimum performance and visual quality.

When choosing a Panel PC, you need to consider several elements including:

- ✓ The Display (Diagonal Size, Resolution, Brightness, Backlight etc..)
- ✓ The Format (Open Frame, Chassis Mount, Rack Mount, IP66 Sealed etc.) Touchscreen Required? Technology? (Resistive, Capacitive , IR, SAW etc.)
- ✓ The PC itself (Processing Power, Graphic Power, I/O, HDD etc..) Operating System Pre-installed? (Windows 7, Windows 7 embedded etc.)

Examples below but more upon request

Zero Bezel Panel PCs and AIOs



**Chassis Mount
Panel PCs**



Open Frame Panel PCs



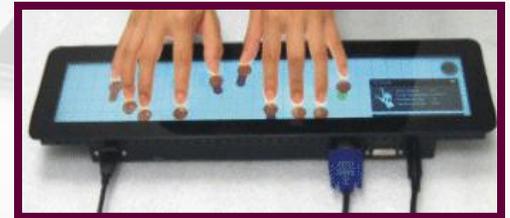
IP67 Panel PCs

Ultra-Wide Stretched Displays Including Interactive Touch

Our range of stretched monitors, also known as BAR-Type displays offer an ultra wide aspect ratio which is perfect for grabbing your audiences attention, and the high brightness display gives perfect visual performance in a wide variety of applications. Having been used in a wide variety of applications including Bars, Casino's and elevators. Assembled with full industrial grade components to ensure the highest standards of reliability.



Ultra thin stretched shelf edge Display



Touchscreen Technologies



PCAP for stylish multi touch applications with DMC PCAP, Inotouch, and other specialist suppliers.

Analogue Resistive Touch Screens are especially suitable for cost sensitive, compact applications. 4 and 5 wire available.

Capacitive Touch Screens are resistant and suitable for outdoor and publicly accessible applications.

IR Infrared for large sizes or applications with and without glass.

SAW (Surface Acoustic Wave) technologies especially for hazardous environments or commercial and gaming applications

Projected Capacitive for ruggedized and specific multi touch applications.

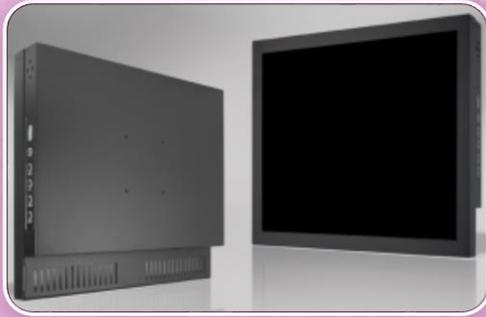
ShadowSense Touchscreens utilize revolutionary new 2D and 3D tracking technology that will produce highly effective and accurate results at a cost well below that of systems currently on the market.

Displax Touch foils for flexible large format (32" +) designs including through glass!

Touch Controllers connect the Touch Screens with an RS232, I²C, or USB interface which is connected to a computer. The touch sensitivity and other features can be set with the driver software. Multi touch capability.

Industrial, Commercial, and Retail Monitors

Crystal Displays offers a full range of standard and custom monitor products to meet your needs and requirements. Contact us about your project now.



Chassis and Rear Mount



Panel Mount



Waterproof IP65 / IP66

Transport Monitors and marine monitors



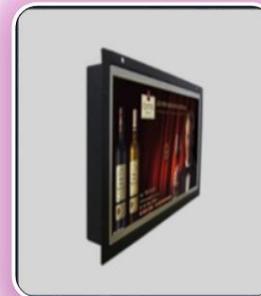
Industrial Super Slim SMART Monitors



Sunlight Readable



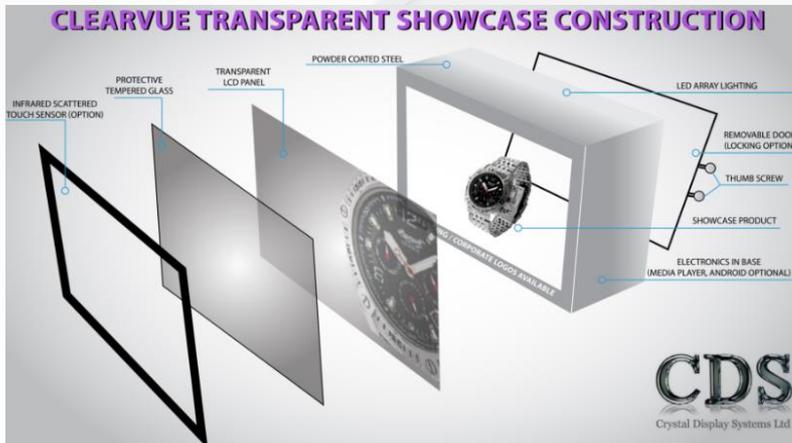
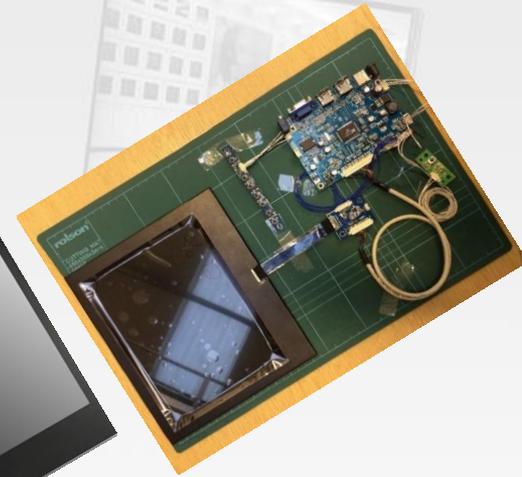
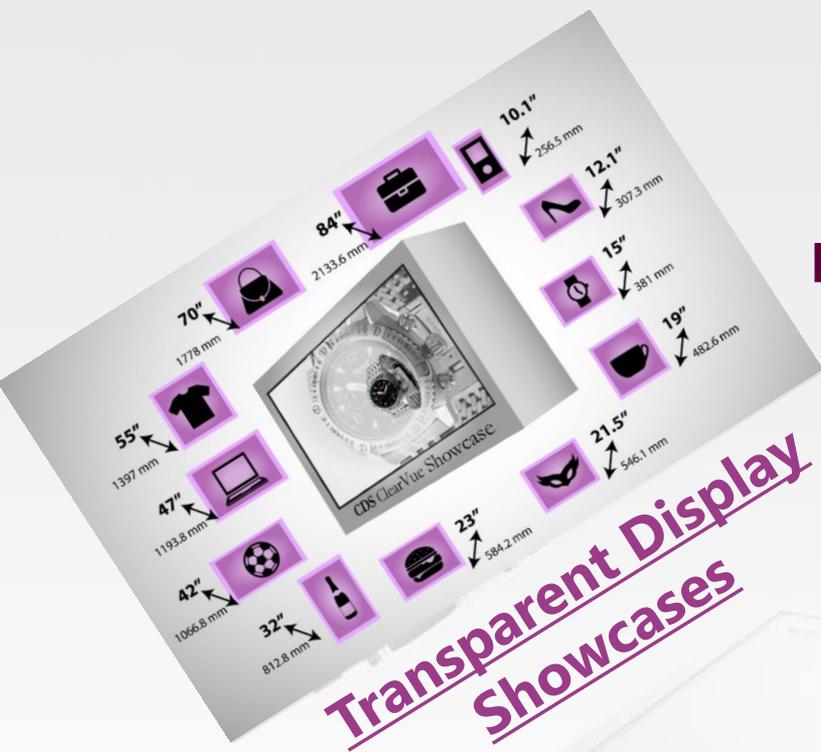
Professional Large Format Monitors



Open Frame and Rack mount

Transparent Display Kits

Transparent Display kits from 5" up to 84" for integrators and designers

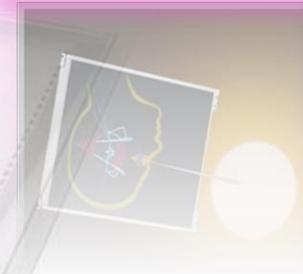
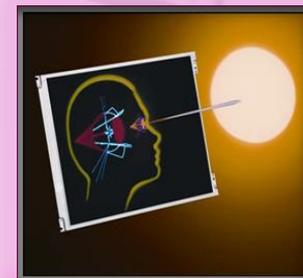


For more information including our Transparent Displays brochure, pricing or FAQ document please email us on info@crystal-display.com

Value Added Services - Optical Enhancements



This can be achieved through Anti-Reflection Enhancement Film, AR glass top layer or full optically bonded display. This currently available up to 46" but please ask for latest information – for more information please email: info@crystal-display.com



Some of the Benefits of Optical Bonding

- ✓ By filling the air gap between the LCD and the substrate, refraction and reflection of light between the layers is Removed, greatly improving the legibility of the display in direct sunlight.
- ✓ The bonding also acts as a barrier to stop the build up of condensation between the LCD and substrate (which is another common problem with outdoor applications caused by frequent temperature changes)
- ✓ The bonding has a wide temperature range making it suitable for the toughest environmental applications acting as a UV shield to protect the LCD from sunlight induced damage.
- ✓ By using optical bonding in conjunction with an LED backlit panel you can greatly reduce your energy consumption in comparison to a comparable high bright product!
- ✓ The type of panel & substrate used is important and CDS can specify a solution dependent on the application. CDS can tailor the solution to meet your project needs, timescales, and budget.

Other Crystal Displays Products



Outdoor IP65 Displays



Curved Displays



Display with PCAP



'Square' Displays



Power Supplies

Industrial EL displays for Harsh environments



Examples of Crystal Display Projects

- Industrial / Aviation / Military Segment
- Medical Segment
- Automotive / Marine / Industrial Segment
- Retail / Digital Signage segment
- Gaming market
- EPOS
- Instrumentation
- Advertising
- Multi touch
- Specialist / Custom
- + Others ...



Some of our Manufacturers and Suppliers



Touchscreens



Interface solutions & others



"We are constantly adding products to our range and can supply other brands upon request so please contact our team."

**For more information please contact our main office and
technical support team**

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