

Thru-Glass touch screen for shop windows



U-Touch thru-glass technology is a unique way to communicate with your Customers. Make your window pay. An incredible system that allows People in the street to make choices regarding products and services by simply touching the window, even when the store is closed and the staff have gone home.

Now you can extend your opening hours and let People interact and choose what is of interest to them. Deliver more detailed content, collect customer feedback and enhance your large screen display.

With a holographic display you can generate high contrast stunning images which appear to float in the air, and catch the attention of passers by.

The U-Touch screen is easy to install. No need to redesign the layout of your shop front, or cut into the glass window. Just let Customers touch the glass window from the street and make choices regarding your products and services.

The U-Touch screen Thru-Glass is produced from the same material used in high demanding applications including ATMs, web phones, medical displays, pay-at-the pump machines, gaming systems and interactive kiosks, ensuring the technology is protected from moisture, heat, and even vandalism.

Features of U-Touch interactive Thru-Glass

- Functions with single glass construction up to 20 mm thick
- No need to fit anything on to the outside window
- Interactivity even works with a gloved hand
- Excellent viewing angle and high contrast image
- Wide range of screen sizes available
- U-Touch screen operation not effected by dirt or rain
- Works with holographic or diffusion screens
- Single cable for power and connection to PC
- Suitable for use in high ambient light installations
- No need to make any holes in the window frames
- Sensing medium not touched by user
- Unsurpassed vandal and shock resistance
- Easy to clean, unaffected by harsh cleaning fluids



Technology for keeping in touch

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Optical performance

U-Touch rear projection screens encompass a high quality rear projection substrate with a gain of 1.3 and grey tint to enhance colour saturation. Picture quality is uncompromised operating in a range of ambient environments, whilst maintaining full touch screen interactivity.

U-Touch screens are suitable for use with any single lens LCD or DLP projector. Furthermore there is an option of clear, anti-glare, toughened, or high transmission treatments.

Standard size

UT40TG	40 inch diagonal
UT50TG	50 inch diagonal
UT60TG	60 inch diagonal

Other custom sizes available on request.

Minimum requirements

Pentium or higher PC
128 MB RAM
Windows 95 or higher
10 MB free hard disk space
Spare serial COM port

What's included

Thru-glass U-Touch screen
Mounting kit to apply to glass frontage or shop window
Controller interface
Connecting cables
Touch screen driver

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General Specifications

The U-Touch screen comprises a laminated glass sensor, which encompasses the sensing medium, and the control card which connects to the Com port of the PC.

Touch detection	Proximity sensing using 20 micron wire
Power requirements	5 mA at 6 to 12 volts, from RS232 port
Lead & connector	Female D9 serial connector, 10 metre length
Image Gain	Typical 1.3 with grey tint
Viewing angle	Up to 160 degrees
Light transmission	88%
Aspect ratio	4 by 3 standard, others available on request
Speed of response	13 msec through 4 mm glass
Resolution	Less than 1 mm
Position accuracy	Less than 1% of diagonal error
Communications	RS232 serial
MTBF	In excess of 1 million hours
Sensitivity	Adjustable through software
Stability	Fixed wires ensures no drift
Operating temperature	-35 deg C to +65 deg C
Operating humidity	0 to 90% RH @ 40 deg C.
Warranty	24 months
Emissions	FCC Class B
Regularity	CE and UL compliant
Software provided	Simple calibration and set-up with Windows

How it works

The electronic controls effectively divide the screen into pixel size sensing cells, using microfine wires which are barely visible to the naked eye, on a powered display. These wires are connected to a controller board, and an oscillation frequency is established for each wire. Touching the glass causes a change in the frequency of the wires at that particular point, the position of which is identified and calculated by the controller. The front glass of the touch screen acts as a dielectric and enhances the capacitance of the touch screen.



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