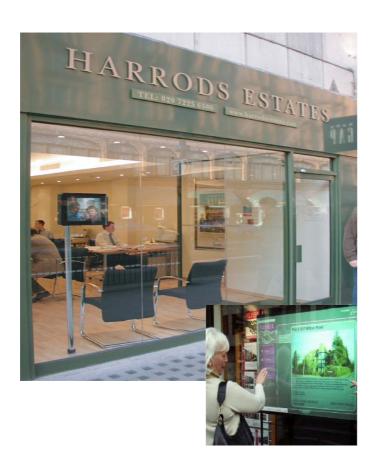
# U-Touch

## Thru-Glass touch screen for shop windows



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

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.



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 detectionProximity sensing using 20 micron wirePower requirements5 mA at 6 to 12 volts, from RS232 portLead & connectorFemale D9 serial connector, 10 metre lengthImage GainTypical 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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