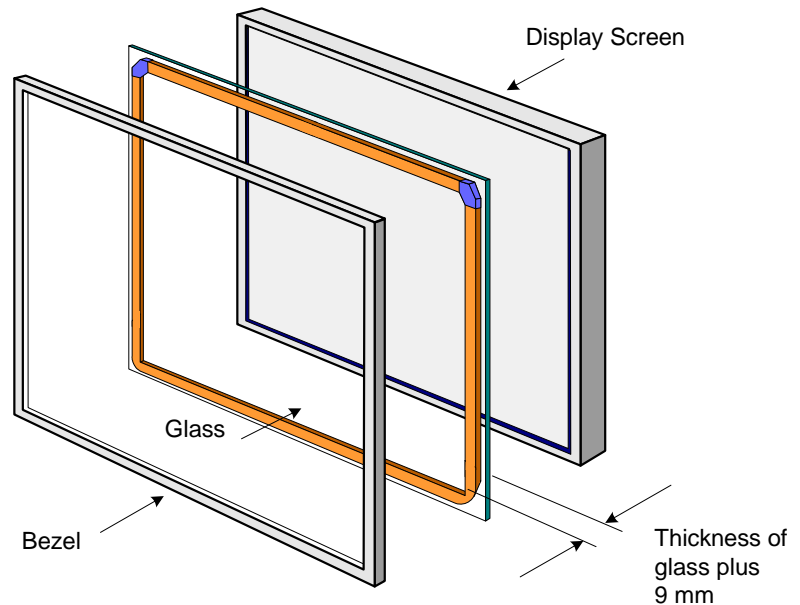


## 2102 Integrated Touch Frame

USB



### Applications

- Digital Retail Signage
- Directory and Wayfinding
- Kiosks
- Interactive Education

NextWindow's 2102 Touch Frame turns any display, such as a plasma or LCD, into an integrated touch screen that provides full mouse functionality—click, drag, double-click and right-click. You can control a computer application simply by touching the screen.

The 2102 Touch Frame's slim design allows it to fit unobtrusively underneath the fascia or bezel of the manufacturer's display, providing a fully integrated solution.

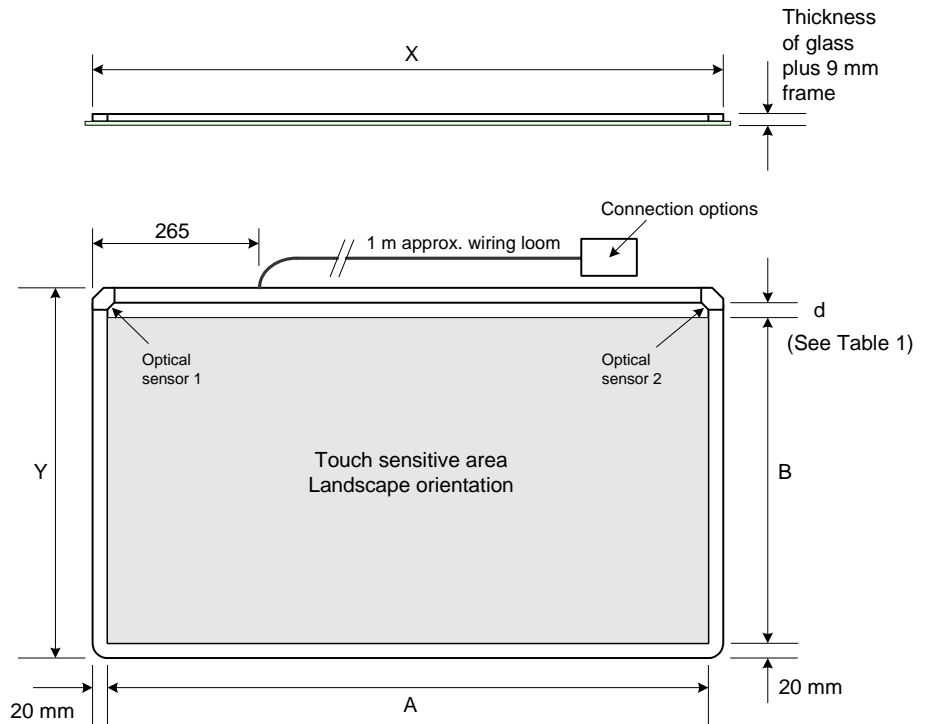
The 2102 Touch Frame uses NextWindow's unique optical imaging technology, which employs clear glass with no special surface coatings and therefore preserves the full clarity of the display image.

The 2102 Touch Frame can be fitted to any manufacturer's display from 30" to 67" and provides the following features:

- Accurate touch sensitivity over the whole screen.
- Light touch—no pressure required.
- Any touch method can be used—finger, gloved hand or pointer.
- Once-only, four-point calibration. No drift.
- HID compliant USB plug-and-play connection.
- Landscape or portrait orientation.

# 2102 Integrated Touch Frame

## Dimensions



NextWindow 2102 Touch Frames are made to fit particular manufacturers' display screens. The touch frame consists of a low-profile aluminium frame permanently bonded to glass. Some constraints apply in the available dimensions, depending on the aspect ratio, which is normally 16:9 or 4:3. Please quote the overall dimensions ( $X$ ,  $Y$ ), and the touch sensitive area dimensions ( $A$ ,  $B$ ) required.

### Notes

- The above diagram is for illustration only and is not to scale.
- 4 mm glass recommended for screens smaller than 32".  
6 mm glass recommended for screens larger than 32".
- Minimum overall width ( $X$ ) is 545 mm.

**Table 1**

The dead zone ( $d$ ) and hence the height of the touch sensitive area ( $B$ ) depends on the size of the screen as follows:

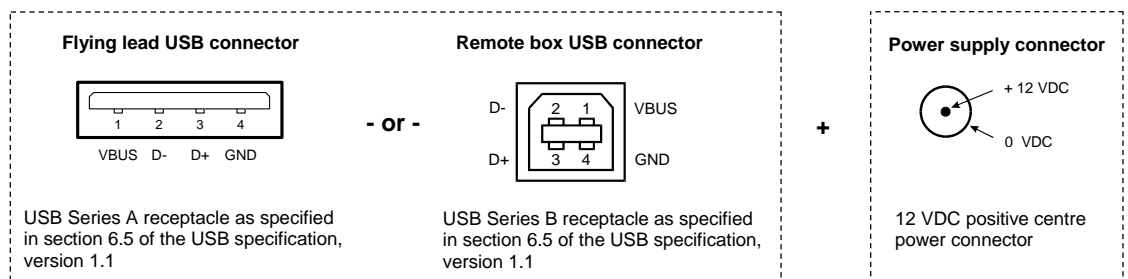
Screen size	$d$ (mm)
Less than 46"	15 to 20
46" to 57"	20 to 25
Greater than 57"	25 to 30

# 2102 Integrated Touch Frame

## Specifications

<b>Dimensions</b>	See the "2102 Integrated Touch Frame - Dimensions" page.
<b>Glass</b>	Recommended 4 mm to 6 mm tempered glass.
<b>Bezel colour</b>	Standard: silver or black anodised. Other colours available on request.
<b>Construction</b>	Aluminium, zinc, opal acrylic, annealed polycarbonate, PVC, FR4 fibreglass printed circuit boards and tempered glass.
<b>Luminous transmission</b>	100% without glass, >92% with glass (depending on anti-reflective surface coating).
<b>Aspect ratio</b>	Usually 16:9 or 4:3, but can be any rectangular shape.
<b>Touch technology</b>	NextWindow Optical Imaging—no special surface coatings.
<b>Touch method</b>	Finger, gloved hand, or any other pointer.
<b>Touch activation force</b>	No pressure required.
<b>Touch accuracy</b>	± 2 mm (for 40" screen) over 90% of the touch sensitive area. USB reported touch resolution 32767 x 32767.
<b>Touch durability</b>	Unlimited
<b>Touch response time</b>	Typically 110 touches per second (9 ms) for single touch with no ambient synchronisation.
<b>Environment</b>	Temperature Operating: 0°C to 55°C Storage: -25°C to 85°C Humidity Operating: 10% to 90% RH, non-condensating Storage: 10% to 90% RH, non-condensating
<b>Power supply</b>	NextWindow part number 302140000. Input: 90-263 VAC 47-63 Hz. Output: +12 VDC 3.5 A, positive centre. +12 VDC, nominal (+11.5 V to +12.5 V). 250 mA rms (peaks of 1 A for 8 ms), typical at +12 VDC. Average power dissipation is 3 W. Supply must be capable of providing 500 mA minimum. Total noise and ripple requirement must be less than 100 mV for frequencies below 1 MHz, and less than 50 mV (p-p) for frequencies above 1 MHz.
<b>Reporting speed</b>	10 ms per coordinate set (max). Typical 15 ms (66 updates per second).
<b>Calibration</b>	Simple four-point driverless calibration. (Requires no software). Automatic landscape/portrait orientation detection.
<b>ESD</b>	Per EN 6100-4-2 1995: Level 4. Contact discharge 8 kV, air discharge 15 kV on USB connector pins.
<b>Interface</b>	USB 1.1 (full speed), HID compliant, plug-and-play compatible.
<b>Operating systems</b>	Windows XP, Mac OS, Win 2000, Linux.
<b>Connection options</b>	Remote box or flying lead (see connector diagrams below). For custom options, contact NextWindow.
<b>Software</b>	No software required. Works with Windows native HID mouse driver. NextWindow Touch+ software provides additional utilities.
<b>Weight</b>	Weight for 32" is less than 1 kg (approx.) without glass.
<b>Warranty</b>	1 year parts and labour.

Note: specifications subject to change without notice.





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