

## Screen Technology Limited

### **ITrans® Monolithic Specifications**

ITrans displays are made from tiles which can be assembled to make essentially any rectilinear shape or size. The typical screen size range is 62 - 200+ inches diagonal (1.3 - 5m+ diagonal, 1m - 12.4sq.m+ in area) for standard screen formats. ITrans can also create horizontal or vertical banner displays and gives designers previously undreamt of scope for imaginative use of display media.

The first products have a 1.7mm pixel size (giving a resolution equivalent to printed large area posters), full colour video and excellent image quality over a range of distances from 1m to many 10s of metres. This pixel size allows an 85" screen to be made with the same resolution as a good quality notebook or PC monitor.

The ITrans optical design eliminates sub-pixellation and the image break-up associated with LEDs and Plasma displays when viewed too close. This ensures that text is readable from all distances, a great advantage for any application such as electronic billboards which use text to get their message across. ITrans displays are uniquely able to provide both the resolution and the brightness required to give good image quality. ITrans displays have a typical luminance of 2000cd/m<sup>2</sup> (NIT) which is ideally suited to sheltered daylight areas.

## 1.7mm pixel module specification

<b>Configuration:</b>	Based on standard 15" TFT LCD monitor panel
<b>Module Diagonal:</b>	17" (431.2 mm)
<b>Module Width:</b>	345.8 mm
<b>Module height:</b>	257.6 mm
<b>Module format:</b>	Landscape Portrait format modules under development
<b>Resolution:</b>	204 x 152
<b>Pixel size:</b>	1.695 mm
<b>Pixel structure:</b>	No sub-pixellation
<b>Pixel fill factor:</b>	>90%
<b>No. of colours:</b>	16.7 million
<b>Response time:</b>	20 ms
<b>Weight:</b>	5 kg (excluding backlight, display frame and stand)

## 62" diagonal 1.7 mm pixel ITrans® product specification

**Configuration:** 4x3 standard 1.7 mm pixel modules configured as plug and play monitor

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**Inputs:** VGA, composite video, S-video

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**Display area diagonal:** 62" (1.57 m)

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**Display area width:** 1.38 m

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**Display area height:** 0.77 m

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**Active display area:** 1.06 sq.m.

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**Module format:** Landscape

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**Resolution:** Up to 816 x 456 (SVGA)

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**Pixel size:** 1.695 mm

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**Pixel structure:** No sub-pixellation

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**Pixel fill factor:** >90%

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**No. of colours:** 16.7 million

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**Response time:** 20 ms

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**Maximum luminance:** 2300 cd/sq.m.

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**Maximum ambient light level:** 20,000 lux

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**Dimming range:** 10:1

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**Depth:** 252mm (excluding stand)

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**Power consumption:** 2kW at 2000 cd/sq.m.

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**Operating temperature:** 0 to 40°C

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**Storage temperature:** -20° to +60°C

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**Operating humidity:** 20% to 85%, non-condensing

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**Storage humidity:** 5% to 90%, non-condensing

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**Delivery:** Typically 3 months from receipt of order

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## Specifications of 1.7 mm pixel standard ITrans® products

<b>Configurations:</b>	<u>Diagonal</u>	<u>Resolution</u>	<u>Display area</u>	<u>Height x Width</u>
	<u>45" (3 x 2)</u>	<u>612 x 304</u>	<u>0.53 sq.m.</u>	<u>0.51 x 1.03 m</u>
	<u>62" (4 x 3)</u>	<u>816 x 456</u>	<u>1.06 sq.m.</u>	<u>0.77 x 1.38 m</u>
	<u>68" (4 x 4)</u>	<u>812 x 608</u>	<u>1.42 sq.m.</u>	<u>1.03 x 1.38 m</u>
	<u>79" 5 x 4</u>	<u>1020 x 608</u>	<u>1.78 sq.m.</u>	<u>1.03 x 1.72 m</u>

**Depth:** 245 mm (complete display excluding stand)

**Signal inputs:** S-video, composite video, VGA

**Mounting:** Designed for free-standing or wall-hung mounting

**Weight:** Typically 68 kg /sq.m. + 20 kg per display

**Power consumption:** Dependent on configuration and luminance

Typical 1400W/sq.m. for 2000 cd/sq.m.

**Power supply:** 220-240V AC

**Maintenance:** All active components, including backlight lamps and LCD panels, are replaceable in situ

**Delivery:** Typically three months from receipt of order

All specifications are correct at time of publishing but are subject to change without notice. For the latest specification please contact Screen Technology directly.