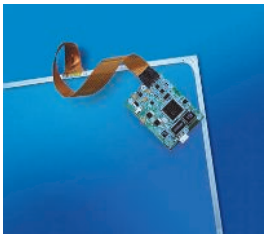
3M™ MicroTouch™ System DST2270DX

(formerly known as Dispersive Signal Touch Screens)

PALAS
ISO 9001:2008 Certified



In most cheap large-format touch technologies “touch position” is calculated when a finger interrupts an optical field, infrared light beams or acoustic waves on or above the surface of the touch screen. Performance of such technologies are affected by surface contaminants and environmental interference.

What's different about 3M DST is that it precisely calculates touch locations by analyzing the bending waves within the glass substrate that are created by the user's touch. Bending waves differ from surface waves in that they traverse through the thickness of the panel rather than the surface of the material. This makes DST unaffected by contaminants, scratches, or standing objects on the screen.

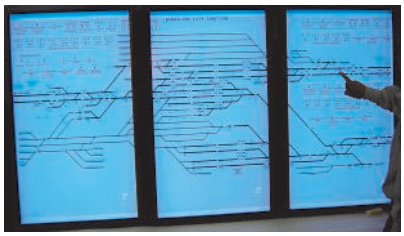
Product Highlights

- Fast, accurate, repeatable touch.
- Excellent light transmission provides vibrant optical characteristics with anti-glare properties
- Touch unaffected by surface contaminants, such as liquids, dirt, dust and grime, or standing objects
- Operation unaffected by surface damage.
- Chemically-strengthened glass meets EN/UL 60950 glass breakage specifications
- Input flexibility from finger or stylus, such as pencil, credit card, finger nail, or similar
- Available for display sizes from 32" to 55”

Touch Screen Specifications

Technology	3M MicroTouch Dispersive Signal Technology
Touch Screen Construction	Chemically-strengthened glass substrate with anti-glare etch
Input Method	Finger or stylus input
Minimum Contact Requirement	50 mN.s (milli-newton seconds), the equivalent of a very light touch.
Response	20 ms for tap input
Accuracy	Within 1% of true position
Touch Resolution	16K x 16K
Light Transmission	92% ± 2%
Surface Finish	Anti-glare etch
Surface Hardness	Mohs pick with a hardness rating of 7 or higher is required to induce a scratch. Scratches will not result in a functional failure.
Durability	Chemically-strengthened glass meets EN/UL 60950 glass breakage specifications
Operating Temperature	-15 to 70 deg C
Humidity	Upto 90% RH from 0 to 35 deg C, non-condensing
Surface Obstruction	Not affected by surface contaminants like dust, grease, moisture, liquids.
Interface	USB
Cleaning	Wipe with damp cloth moistened with Water or isopropyl alcohol

Bangalore Railway Station - 3 x 46” Palas Touch Monitors control the movement of trains on the tracks at Bangalore City Junction. A “mission-critical” application.



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