

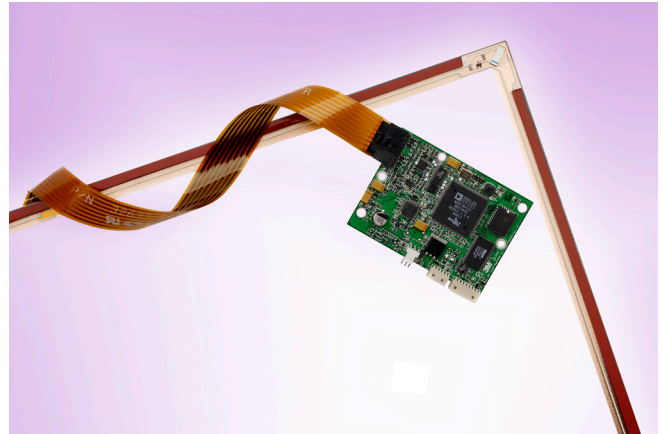
The Dependable Choice for Full-Size Interactive Digital Signage

The 52- and 55-inch 3M™ MicroTouch™ System DST2270DX offers Digital Signage providers a full-size, attention-grabbing, interactive touch system to help capture and maintain the attention of target consumer audiences. With viewing areas more than 150 percent that of a typical 42-inch systems, the 52- and 55-inch DST2270DX systems can help attract customers from a greater distance. They can also be used up close by multiple interactive users. This feature can help improve messaging efficiency especially in crowded public areas like shopping malls, hotel lobbies and convention centers.

The DST2270DX system relies on 3M's patented Dispersive Signal Technology (DST), a bending wave technology that enables the reliable touch performance valued by the interactive digital signage market. Known for its dependability, the DST2270DX system operates effortlessly in most demanding venues, and unlike active surface-, infrared- and camera-based solutions, its performance is unaffected by on-screen surface contaminants, surface scratches or ambient light. The DST2270DX system also performs effortlessly with objects resting on the touchscreen surface.

The DST2270DX system is a versatile touch solution that can easily be reoriented in portrait, landscape, and table top positions without recalibration. In addition, the DST2270DX system enables users to interact using virtually any pointing object, such as finger, fingernail, prosthetic, car key or other stylus.

Constructed with 2.2mm chemically-strengthened glass, the DST2270DX system provides superior durability in a slim profile that allows for easy bezel integration in most popular narrow-border LCD's and eliminates the need for aftermarket custom bezels. This helps reduce product costs and maintains the display manufacturer's original industrial design and warranty. A chemical etch finish gives the DST2270DX system a permanent anti-glare feature and the



Recommended Applications

- Interactive Digital Signage
- Hospitality Wayfinders
- Concierge Desk
- Retail Brand Experience
- Retail Product Selectors
- Corporate Directories
- Interactive Tabletops
- Transportation Scheduling

scratch-resistant touch surface helps hide fingerprints and creates an inviting touch surface.

The DST2270DX system is offered in sizes ranging from 32- to 55-inches to accommodate a full spectrum of digital signage projects. Backed by 3M Touch's 3-year limited warranty, the DST2270DX system is the dependable choice for interactive digital signage needs.

Feature	Benefit
Dispersive Signal Technology (DST)	<ul style="list-style-type: none"> • Provides reliable operation in the presence of surface contaminants, scratches, and direct ambient light typically found in high traffic public areas • Enhances usability by accommodating objects resting on the screen • Improves the user's ease of operation through stylus independence • Requires no recalibration in either a vertical (portrait and landscape) or horizontal position (tabletop)
Slim 2.2mm Chemically-strengthened and Etched Glass Surface	<ul style="list-style-type: none"> • Superior surface durability is designed to maintain optical and functional performance over the life of the product • Requires MoHS 7 or higher to induce a cosmetic scratch ensuring reliable performance in high-use environments • Easily accommodates popular narrow border LCDs without adding additional costs or additional weight • Improves usability by minimizing light reflection and glare

3M™ MicroTouch™ System DST2270DX Specifications (52/55)

System Performance

Input Method	Finger and stylus input
Accuracy	Reported coordinates are within 1.0% of true position (based on viewing area dimensions)
Touch System Resolution	16k x 16k (maximum resolution)
Response Time	20 ms for tap input
Minimum Touch Impact*	50 mN-s (milli-newton seconds), the equivalent of a very light touch

Optics

Light Transmission**	92% light transmission (±2%)
Surface Finish	Anti-glare etch (standard)

Mechanical

Glass Thickness	2.2 mm (± 0.2 mm), glass only
Overall Thickness	4.4 mm (± 0.5 mm) Includes glass thickness, tail, electronics components, and mounting material
Substrate Material	Chemically-strengthened glass substrate
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
Cleaning	Recommended 50:50 isopropyl alcohol and water solution

Standard Part Numbers

Display Size	Part Number
52" wide	98-0003-3795-0 (narrow border)
55" wide	98-0003-3625-9 (narrow border)

Reliability

Surface Obstructions	Touch screen operation withstands surface contaminants such as dirt, dust and grime
Operating Temperature***	-15° C to +70° C for the touch screen RH: Up to 90% non-condensing
Storage Temperature***	-50° C to +85° C RH: Up to 90% non-condensing

Electronics (3M MicroTouch Controller DX)

Communications Protocol	Auto-sensing dual mode (Serial plug and play and/or USB HID)
Nominal Uncased Dimensions	2.66" x 3.75" x 0.45" 67.56 mm x 95.25 mm x 11.43 mm
MTBF (average)	>140k hours per MIL Std. 217F calculation
Regulatory	IEC/UL 60950-1, FCC-A, CE, VCCI, AS/NZS 3548
Drivers	MicroTouch MT7 for Microsoft® Windows® 2000, XP and VISTA

System Warranty

3 year limited warranty

* Tested at 85 dBA under pink noise, ambient condition

** Test uses BYK Gardner Haze Gard Plus.

*** See 3M MicroTouch SCT2270DX Delivery Specifications for storage and operating temperatures at varying humidity levels.

How 3M Dispersive Signal Technology Works

Dispersive Signal Technology (DST), a patented 3M technology, determines a touch position by measuring the mechanical energy or bending waves created by the user touching the glass substrate with a finger or other stylus. Unlike other technologies, DST measures the mechanical energy travelling through the glass panel rather on the surface of the glass panel allowing for a dynamic touch performance. Corner-mounted piezos adhered to the backside of the glass panel, collect and translate a touch position through a sophisticated, dedicated controller using proprietary algorithms to ensure fast and accurate touch performance.

3M Touch Systems

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