



3M Touch Systems

3M™ PCAP Multi-Touch Display 65-inch



Engineered for commercial applications

Introducing 3M 65-Inch Multi-Touch Display. This large-format display offers a smartphone-like touch experience in a commercial display specially engineered for 24/7 operation. With features like high-performance projected capacitive multi-touch technology, a sophisticated bezel-free design for a truly uncompromised touch experience, an active thermal management system to ensure cool-to-the-touch performance in all display orientations, finger and pen input and a 3-year warranty, these displays deliver a premium interactive experience to teach, inspire, inform and sell.

Proprietary Ultrafine Metal Mesh Design

At the core of this display is an integrated ultrafine metal mesh conductor — a sensor unlike other known ultrafine metal mesh technologies in the marketplace today. This new technology overcomes design and optical challenges found in other projected capacitive technology (PCT) solutions by using advanced optical modelling techniques developed by 30 years of 3M science and service to the display industry. The result is a sensor designed to work universally on 2K and 4K applications across a range of sizes, including planar (curved) screens, while maintaining high image quality and touch responsiveness.

Suggested Applications

Public Venues

- Shopping Malls
- Museums
- Event Centers
- Campuses

Branded Retail

- Automotive Showrooms
- Luxury Retail
- Fashion
- Upscale Department Stores

Sample Applications

- Wayfinding/Information
- Endless Aisle
- Educational Exhibits
- Entertainment
- Assisted Selling

- ✓ Fully-Integrated Chassis Solution
- ✓ Exceptional Touch Performance
- ✓ Robust, Durable and Dependable
- ✓ Consumer-Driven Design
- ✓ Stable Life-Cycle Product Availability

Feature	Benefit
Proprietary Ultrafine Metal Mesh Design	<ul style="list-style-type: none"> • Touchscreen and electronics tuned for precise, full multi-touch functionality, even at the edges and corners of the display • Robust system solution tested to work with many display technologies provides integration and design flexibility • Ultrafine metal mesh design based on sophisticated 3M optical modeling
Proprietary 3M Electronics	<ul style="list-style-type: none"> • Reports simultaneous multi-touch events while supporting palm rejection at high speeds • High signal-to-noise ratio provides input flexibility including thin gloves and fingertips • Ultra-high definition touch for smooth draw capability and ability to distinguish multiple fingers in close proximity • Custom ASIC design offers a standard protocol for any size between 15 and 65 inches and facilitates seamless application development
Durable Glass Surface	<ul style="list-style-type: none"> • All glass front surface provides a sleek, modern aesthetic • Heat tempered sensor glass withstands the rigors of public environments • Durable cover glass unaffected by scratches, contaminants or items resting on the surface • Enables leading edge industrial design solutions with a uniform narrow black border graphics design • No surface components or bezel requirement limits debris build up which results in increased reliability • Easy-to-clean, virtually “no wear” surface provides operation unaffected by surface scratches • Smooth edge finish for improved durability and handling safety • Anti-glare for table-top applications or strong ambient lighting environments

3M™ PCAP Multi-Touch Display Specifications (65 Inch)

Diagonal Size	65"
Aspect Ratio	16:9
Display Form Factor	Display
Number of Simultaneous Touch Points	80 points with palm rejection
Touch Response Time*	10 ms (up to 20 touches)
Display Resolution	3840 x 2160 (UHD)
Display Colors	1.07 Billion
Pixel Pitch	0.372mm x 0.372mm
Backlight	LED
Viewing Angle	178° (Vertical/Horizontal)
Brightness	450 Nit
Brightness with Touch Sensor	390 Nit
Multimedia	Audio Input, 5W + 5W @ 8Ω
Surface Treatment	Anti-glare
Touch Communication	USB
Video Connections	HDMI, DVI, VGA, Display Port (HDCP)
Power Supply	Internal, 110/220 VAC
Cables Included	USB, VGA, DVI, HDMI, Display Port, Audio Cable, Power Cord
VESA Pattern	400x400
Operating Systems Compatibility	Windows 10/8/7/Vista/XP, Linux, Mac OS and Android
Warranty	3 years
Part Number	98-1100-0698-2
Operating Environment	0 to +40°C, Relative Humidity 85% non-condensing
Storage Environment	-10 to +60°C
Agency Approvals	FCC-B, CE, cTUVus, RCM, PSE, CB, CCC
On-Mode Power Consumption	149 W
Standby Power Consumption	When entering power saving mode, reduced power consumption is 0.2 W
Off Mode Power Consumption	0.2 W
EU Energy Efficiency Class	B
EU Ecodesign Peak Luminance Ratio	80%
Packaging Dimensions	1720 x 1090 x 250mm / 67.7 x 42.9 x 9.8 in.
Display Weight	55.5kg / 122 lbs.
Display with Packaging Weight	68kg / 149.6 lbs.
RoHS Compliant	Yes

*Touch Response Time is the time between two reported touch points.



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Intended Use: Not intended for outdoor, household or personal use.

RoHS Directive compliant: RoHS 2011/65/EU means that the product or part does not contain any of the substances in excess of the maximum concentration values (“MCVs”) in EU RoHS Directive 2011/65/EU, unless the substance is in an application that is exempt under EU RoHS. The MCVs are by weight in homogeneous materials. This information represents 3M’s knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

EU Ecodesign Regulator EC No. 642/2009: This monitor contains lead in certain parts or components where no technology alternatives exist in accordance with existing exemption clauses under the RoHS Directive.

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