

3M Science.
Applied to Life.™

3M Touch Systems

3M™ PCAP Multi-Touch Displays 32-inch

Engineered for commercial applications



Introducing the 3M 32-Inch Multi-Touch Display. This 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, this display delivers 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 |
| 3M PCAP Chemically Strengthened Cover Glass | <ul style="list-style-type: none"> • All glass front surface provides a sleek, modern aesthetic • 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 C3266PW Specifications (32-Inch)

Functional Specifications — Display Details

| | |
|--|--|
| Display Colors | 16.8 million |
| Pixel Pitch | 0.364mm x 0.364mm |
| Brightness with touch sensor (max.) ¹ | 500cd/m2 (nit) typical 450cd/m2 (nit) typical |
| Contrast Ratio ² | 3000:1 typical |
| Viewing Angle | 178° (Vertical/Horizontal) |
| Video Response Time ³ | 10 ms typical |
| Control Type | OSD |
| Native Resolution | 1920 × 1080 |

1. Brightness measured on a display with 3M™ Projected Capacitive sensor.

2. Measured at a contrast ratio of 10.

3. Gray to Gray.

Functional Specifications — Touch Details

| | |
|--------------------------------|--|
| Number of Touch Points | 80 points with palm rejection |
| Touch Point Speed ⁴ | 10 milliseconds |
| Input Type | Finger, thin glove |
| Touch Communication | Auto detecting, USB and RS232 (Serial) |
| Operating System Support | Windows 10/8/7/Vista/XP, Linux, Mac OS and Android |

4. Up to 20 touches.



On Screen Display (OSD) Panel

Connections



Physical Specifications — Product Details

| | |
|-----------------------------------|---|
| Operating Environment | 0 to +40°C, relative humidity, non-condensing 85% |
| Storage Environment | -10 to +60°C |
| Video Input | DVI, VGA, HDMI (HDCP), Display Port (HDCP) |
| Audio | 5w + 5w @ 8Ω |
| VESA Pattern | 200×200 |
| Power Supply | Internal 110/220 VAC |
| RoHS Compliant | Yes |
| Agency Approvals | FCC-B, CE, cTUVus, CCC, RCM, PSE, CB |
| On-Mode Power Consumption | 42 W |
| EU Energy Efficiency Class | B |
| EU Ecodesign Peak Luminance Ratio | 67% |
| Warranty | 3 years |

Physical Specifications — Dimensions and Weight

| | |
|-------------------------------------|---|
| Physical Dimensions (outer) | 759 × 454 × 66mm 29.9 × 17.9 × 2.6 in. |
| Display Area (W x H) (viewing area) | 698.40 × 392.85mm 27.5 × 15.5 in. |
| Packaging (W x H x D) | 850 × 683 × 211mm 33.46 × 26.89 × 8.31 in. |
| Display Weight | 12.70kg / 28 lbs. |
| Packaging/Display Weight | 17.5kg / 38.6 lbs. |

Ordering Information

| | |
|-------------|----------------|
| Part Number | 98-1100-0728-7 |
|-------------|----------------|



3M Touch Systems
Subsidiary of 3M Company
501 Griffin Brook Park Drive
Methuen, MA 01844 U.S.A.

Phone 1-888-659-1080
Web www.3M.com/touch

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.

IMPORTANT NOTICE TO PURCHASER: Specifications are subject to change without notice. These 3M Touch Systems' Products and software are warranted to meet their published specifications from the date of shipment and one year from the time of purchase. 3M Touch Systems makes no additional warranties, express or implied, including but not limited to any implied warranties of merchantability or fitness for a particular purpose. User is responsible for determining whether the 3M Touch Systems Products and software are fit for User's particular purpose and suitable for its method of production, including intellectual property liability for User's application. If the Product, software or software media is proven not to have met 3M Touch Systems' warranty, then 3M Touch Systems' sole obligation and User's and Purchaser's exclusive remedy will be, at 3M Touch Systems' option, to repair or replace that Product quantity or software media or to refund its purchase price. 3M Touch Systems has no obligation under 3M Touch Systems' warranty for any Product, software or software media that has been modified or damaged through misuse, accident, neglect, or subsequent manufacturing operations or assemblies by anyone other than 3M Touch Systems. 3M Touch Systems shall not be liable in any action against it in any way related to the Products or software for any loss or damages, whether non-specified direct, indirect, special, incidental or consequential (including downtime, loss of profits or goodwill) regardless of the legal theory asserted. (7/02)

3M is a trademark of 3M Company. All other trademarks are property of their respective owners. Please recycle. Printed in USA.
© 3M 2016. All rights reserved. 75-0501-3908-0