

# 3M™ MicroTouch™ Display M1500SS

## The Clear Choice for Optics, Durability, and Touch Stability

The 3M MicroTouch Display M1500SS (15"), a purpose-built, surface capacitive touch display, provides a cost-competitive touch alternative to 5-wire resistive display solutions. The display offers a stable base, highly durable touch screen, brilliant optics and a cable management system, all in an elegant and simple-to-use design. This display easily integrates into numerous point-of-sale, PC, and thin client systems making it ideal for applications requiring long life, 24/7 uptime, and the assurance of a 3-year "unlimited touches" warranty. Activated only by human touch, the M1500SS display eliminates inadvertent or false touches from jewelry, clothing, or handheld objects, making it the clear choice for applications where reliability is key.

### The Clear Choice

The M1500SS display utilizes an all-glass surface capacitive touch sensor and proprietary 3M™ ClearTek™ Hard Coat to deliver superior durability, 91.5% light transmission, 225-nit brightness (with touchscreen), 500:1 contrast ratio, and an ultra-fast 5.4 millisecond touch response time.

### Rock-solid Display Base

The M1500SS display is designed with touch in mind which results in rock-solid touch stability even under rapidly repeating and/or heavy tapping. Most displays that were not designed for touch can wobble and/or flex, potentially causing a double touch that can increase operator error and create an unsatisfactory customer experience. The M1500SS display has the flexibility to attach peripheral devices to the left or right of the display bezel and even maintains its touch stability when locked in position at display angles ranging from 0 to 60 degrees.

### Cost-Effective

The M1500SS display employs an all-glass touch sensor that has no moving parts, unlike 5-wire resistive solutions that rely on compression of the film and conductive coatings to recognize touch. Since force is required



to activate a resistive touch screen, it is susceptible to mechanical wear and the appearance of "Newton Rings" which can potentially reduce product life and optical performance. This rugged M1500SS touch display continues to operate in the presence of on-screen contaminants and carries 3-year "unlimited touch" warranty. In addition, 3M owns the design and tooling for the display thereby increasing control over the product life cycle and decreasing the possibility for an external change.

### Recommended Applications

- Point of Sale (POS)
- Point of Service
- Kiosks
- Digital Signage
- Unattended Environments
- Point of Information (POI)
- Hospitality
- Financial

| Feature                       | Benefit                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All-Glass, One-Layer Solution | <ul style="list-style-type: none"><li>• Provides 91.5% light transmission as compared to 80% for certain 5-wire resistive solutions</li><li>• Unaffected by UV light that can cause degradation of optics and yellowing of film-based touch sensors over time</li><li>• No moving parts improves reliability</li><li>• Inherently free from the appearance of "Newton Rings"</li></ul> |
| 3M ClearTek Hard Coat         | <ul style="list-style-type: none"><li>• Proprietary coating is uniformly heat infused into the glass creating a non-permeable barrier for increased scratch and chemical resistance</li><li>• Low surface energy coating promotes smooth finger drag</li><li>• Unaffected by surface contaminants</li></ul>                                                                            |
| Total Touch Solution          | <ul style="list-style-type: none"><li>• Unlike other touch display manufacturers that utilize 3rd party touch sensors, electronics, and or software in their design, 3M owns, understands, and warrants the entire system for an unlimited amount of touches for 3 years</li></ul>                                                                                                     |

# 3M™ MicroTouch™ Display M1500SS Specifications

## Functional

|                                                  |                                                                                                   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------|
| LCD Technology                                   | TFT, Active Matrix                                                                                |
| Display Colors                                   | 16.2 million                                                                                      |
| Pixel Pitch                                      | .297 mm                                                                                           |
| Brightness without touch screen                  | 250 cd/m2 (nit) typical                                                                           |
| Brightness with touch screen (max.) <sup>1</sup> | 225 cd/m2 (nit) typical                                                                           |
| Contrast Ratio                                   | 500:1                                                                                             |
| Video Response Time                              | 12 ms typical                                                                                     |
| Touch Response Time                              | 5.4 ms typical                                                                                    |
| Viewing Angle (from center)**                    | Horizontal: ±70 degrees typical<br>Vertical: ±70 degrees typical                                  |
| Front Panel Buttons                              | Menu, Select, Adjust, Power                                                                       |
| On Screen Display Controls                       | Brightness, Contrast, Horizontal/Vertical Position, Clock, Phase, Auto Phase, Color, Lockable OSD |
| Maximum Resolution                               | 1024 x 768                                                                                        |
| Operating Environment                            | 0 to 40 degrees C<br>Relative Humidity, Non-condensing 85%                                        |
| Storage Environment                              | -20 to +60 degrees C                                                                              |



Key hole pattern in base allows bolt-down mounting.



Peripheral Attachment System allows use of multiple peripheral devices.

## Physical

|                                             |                                                     |
|---------------------------------------------|-----------------------------------------------------|
| Dimensions (WxHxD)<br>(Depth includes base) | 408 x 398.3 x 258.7 mm<br>16.1 x 15.7 x 10.2 inches |
| Display Area (WxH)                          | 304.1 x 228.1 mm<br>12 x 9 inches                   |
| Video Cable Connector                       | 15-pin D-sub                                        |
| Power Supply                                | 12V DC Power Supply                                 |
| Power Savings <sup>2</sup>                  | DPMS, VESA Compliant                                |
| Power Consumption                           | <30W, Normal Operation                              |
| Backlight Life                              | 40,000 hrs. typical                                 |
| Weight (Net)                                | 7.4 kg/16.3 lbs.                                    |
| RoHS Compliant                              | Yes                                                 |
| Agency Approvals                            | FCC B, CE, UL/cUL, C-Tick, CCC                      |
| Mounting Options                            | VESA mounting compatible, 75mm                      |
| Multimedia                                  | Full multimedia capability                          |
| Color Option                                | Black                                               |
| Controller Option                           | Serial, USB                                         |
| Warranty                                    | 3 years of unlimited touches                        |

## Standard Part Numbers

| Part Number  | Description |
|--------------|-------------|
| 11-81375-225 | USB         |
| 11-81375-227 | Serial      |

\*\* Measured at a contrast ratio of 5

(1) Brightness measured using 3M MicroTouch Sensor SCT3250

(2) DPMS: Display power management signaling for reduced power consumption during non-use.

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