

# 3M™ MicroTouch™ Display C2234SW

## The Clear Choice for Optics, Reliability, and Ease of Integration

The 22-inch 3M™ MicroTouch™ Display C2234SW, a robust metal chassis display using 3M's industry-standard surface capacitive touch technology, provides a durable, optically-enhanced, and engaging large form factor display for use in industrial automation equipment and kiosk enclosures. The C2234SW display offers multiple mounting options to make integration easy. A remote on-screen display module helps simplify any changes to the display image during installation or system maintenance.

### The Clear Choice

The C2234SW display has an all-glass 3M surface capacitive touch sensor with proprietary 3M™ ClearTek™ Hard Coat to deliver superior durability, 91.5% light transmission, 225-nit brightness (with touch screen), 1000:1 contrast ratio and an ultra-fast 5.4 millisecond touch contact time. The C2234SW display operates reliably in the presence of on-screen contaminants and carries a 3-year "unlimited touches" warranty.

### Multiple Mounting Options

Multiple mounting options enable customers to meet their application needs at minimal cost. The C2234SW display offers a 100mm VESA pattern to provide arm mounting capability for industrial automation equipment. This minimizes the capital expenditure needed to upgrade equipment with touch. L-brackets (standard) are available for installations that require the touch display to be fully enclosed.

### Total Touch Solution

3M manufactures the entire touch system (sensor, electronics, and drivers) and owns the production tools for manufacturing the C2234SW chassis in order to deliver a complete touch display system that is truly designed for touch. The dual mode touch controller provides the user flex-



ibility to choose between USB HID or Serial communication protocol at the time of installation. Since 3M owns the production tools for the C2234SW the product lifecycle can be controlled to ensure product continuity.

### Recommended Applications

- Industrial Automation
- Self Service
- Hospitality
- Security Systems
- Point-of-Information (POI)
- Home Automation

Feature	Benefit
3M™ MicroTouch™ SCT System	<ul style="list-style-type: none"><li>• All glass solution provides 91.5% light transmission delivering superior optical performance</li><li>• Dedicated ASIC creates ultrafast 5.4 millisecond touch response</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 three years</li></ul>



# 3M™ MicroTouch™ Display C2234SW Specifications

## Functional Specifications

### Display Details

LCD Technology	TFT, Active Matrix
Display Colors	16.7 million
Pixel Pitch	.282 x .282mm
Brightness	250 cd/m <sup>2</sup> (nit) typical
with touch sensor (max.) <sup>1</sup>	225 cd/m <sup>2</sup> (nit) typical
Contrast Ratio	1000:1 typical
Viewing Angle <sup>2</sup>	Horizontal: 170 degrees typical Vertical: 160 degrees typical
Video Response Time <sup>3</sup>	5 ms typical
Control Type	OSD
Native Resolution	1680x1050

### Touch Details

Touch Point Speed	5.4 ms
Input Type	Finger
Touch Communication	USB and RS232 (Serial)
Operating System Support	Windows 7/Vista/XP, Linux, Mac OS

(1) Brightness measured on a display with 3M™ Surface Capacitive sensor.

(2) Measured at a contrast ratio of 10.

(3) Gray to Gray



Input Connections

## Physical Specifications

### Product Details

Operating Environment	0 to +40 degrees C Relative Humidity, non-condensing 90%
Storage Environment	-10 to +60 degrees C
Video Input	DVI and VGA
Multimedia	Audio input, 3 watt audio output
VESA Pattern	100mm x 100mm
Power Supply	12 VDC Power Supply (external)
Power Consumption	40 watts maximum
RoHS Compliant	Yes
Agency Approvals	FCC-B, CE, TUV, CCC
Warranty	3 years

### Dimensions and Weight

Physical (WxHxD)	500.0 x 328.4 x 51.87 mm 19.7 x 12.9 x 2.0 inches
Display Area (WxH) (viewing area)	473.8 x 296.1 mm 18.7 x 11.7 inches
Packaging (WxHxD)	610 x 490 x 194 mm 24.0 x 19.3 x 7.6 inches
Display weight	6.4 kg / 14.0 lb
Packaging/Display weight	12 kg / 26.4 lb

Part Number 98-0003-3598-8



Slim Design



Optional Remote On-screen  
Display Module

(Part number: 30114)

## 3M Touch Systems

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