

MicroTouch™

3M

MicroTouch™ FPD Touch Monitor

MONITORS



Product Highlights

- Ideal in space-constrained environments
- Individually designed, engineered, and tested for volume production using ISO 9001 procedures.
- Mounting options with VESA-standard devices
- Available with MicroTouch ClearTek capacitive or 5-wire resistive touch screen technology
- Accurate and reliable touch performance

Lightweight and Compact FPD Touch Monitor Solutions

Make room for additional merchandise or desired work space with MicroTouch™ Flat Panel Display (FPD) touch monitors. Ideal for space-constrained environments, their slim profile requires less desktop space than traditional CRTs of the same screen size while offering more viewable image area. Cool running and energy efficient, MicroTouch FPD monitors are available in 12.1" and 15" sizes and are UL, FCC, and CE compliant.

Making the Difference

Touch robustness or input flexibility, 3M Touch Systems knows each touch monitor application has a unique set of requirements. That's why MicroTouch FPD monitors are offered with a choice touch technology.

MicroTouch ClearTek capacitive touch technology provides accuracy and sensitivity to the user's touch while offering outstanding durability. ClearTek provides scratch-resistance and contaminant-resistance to dirt, liquids, and harsh chemicals. A ClearTek sensor with Industrial (C) Etch has been tested in a laboratory environment to withstand over 225 million mechanical touches without noticeable degradation to the surface.*

MicroTouch Resistive 5-wire touch technology provides fast, accurate, and reliable touch when input flexibility is the most important consideration. Resistive 5-wire responds to the touch of fingernails, credit cards, gloved hands and fingers. Resistive 5-wire technology has been tested in a laboratory environment to withstand 35 million mechanical touches without noticeable degradation to the surface.*

* Mechanical touches for *capacitive* were tested on a single x,y location and for *resistive* were tested on a single 1cm location, each using a finger-like stylus of 45 durometer, "A" shore hardness, 0.5 diameter with a load of 0.46 pounds, +/- .01 pounds of force.

Specifications

MicroTouch™ FPD Touch Monitors

	12.1"	15"
FUNCTIONAL FEATURES		
LCD Technology	TFT, Active Matrix	TFT, Active Matrix
Display Colors	262,144	262,144
Pixel Pitch	.3075 mm	.297 mm
Brightness w/o touch screen	250 cd/m ² typical	250 cd/m ² typical
Brightness with touch screen (max.)¹	215 cd/m ² typical	215 cd/m ² typical
Contrast Ratio	300:1	300:1
Response Time	60 ms typical	35 ms typical
Viewing Angle	Horizontal: +/-60 degrees typical Vertical: +45/-55 degrees typical	Horizontal: +/-60 degrees typical Vertical: +40/-60 degrees typical
Front Panel Buttons	Menu/Select, Adjust, Power	Menu, Select, Adjust, Power
Control Type	OSD	OSD
On Screen Display Controls	Brightness, Contrast, Horizontal/Vertical Position, Clock, Phase, Auto Tune, Recall, Exit	Brightness, Contrast, Horizontal/Vertical Position, Clock, Phase Auto Phase, Color,
Maximum Resolution	800 x 600	1024 x 768
Number of Allowable Unlit Pixels	10	10
Operating Environment	Operating Temperature: 0 to 40 degrees C 90% Relative Humidity, Non-condensing	Operating Temperature: 0 to 40 degrees C 90% Relative Humidity, Non-condensing
Storage Environment	-25 to +60 degrees C	-25 to +60 degrees C
PHYSICAL FEATURES		
Physical Dimensions (WxHxD)	340 x 325 x 166 mm 13.4 x 12.8 x 6.5 inches	385 x 353 x 166 mm 15.2 x 13.9 x 6.5 inches
Display Area (WxH)	246 x 184.5 mm 9.7 X 7.26 inches	304.1 x 228.1 mm 12 x 9 inches
Video Cable Connector	15-pin D-Sub	15-pin D-sub
Power Supply	12V DC Power Supply	12V DC Power Supply
Power Savings²	DPMS, VESA Compliant	DPMS, VESA Compliant
Power Consumption	<12W, Normal Operation	<28W, Normal Operation
Backlight Life	30,000 hrs. typical	50,000 hrs. typical
Weight (Net)	3.8 kg/8.3 lbs.	4.5 kg/10 lbs.
Agency Approvals	FCC B, CE, UL/cUL	FCC B, CE, UL/cUL
Mounting Options	VESA with adapter plate	VESA with adapter plate, key hole wall mount
Multimedia	Integrated Speakers	N/A
Color Option	N/A	Available in Black
Warranty	30 Months FPD 5 Years Touch Sensor and Components	30 Months FPD 5 Years Touch Sensor and Components

(1) Brightness measured using MicroTouch capacitive C-etch sensor

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

Notice: Given the variety of factors that can affect the use and performance of a 3M Touch Systems product, including that solid state equipment has operation characteristics different from electromechanical equipment, some of which factors are uniquely within User's knowledge and control, it is essential that User evaluate the 3M Touch Systems product to determine whether it is suitable for User's particular purpose and suitable for User's method of application. 3M Touch Systems' statements, engineering/technical information, and recommendations are provided for User's convenience, but their accuracy or completeness is not warranted. 3M Touch Systems products are not specifically designed for use in medical devices as defined by United States federal law. 3M Touch Systems products should not be used in such applications without 3M Touch Systems' express written consent. User should contact its sales representative if User's opportunity involves a medical device application.

IMPORTANT NOTICE TO PURCHASER: Specifications are subject to change without notice. 3M Touch Systems' Products are warranted to meet their published specifications from the date of shipment and for the period stated in the specification. **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 are fit for User's particular purpose and suitable for its method of production, including intellectual property liability for User's application. If a Product 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 to refund its purchase price. 3M Touch Systems has no obligation under 3M Touch Systems' warranty for any Product 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 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.** (11/01R2)



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