

# MicroTouch™

3M

## MicroTouch™ CRT Touch Monitors

TOUCH MONITORS



### Product Highlights

- 15" CRT available in black
- Available with MicroTouch ClearTek capacitive or 5-wire resistive touch screen technology
- Easy to integrate with plug and play capability
- Individually designed, engineered, and tested for volume production using ISO 9001 procedures.
- Accurate, reliable touch performance

### Economical and Reliable CRT Touch Monitor Solutions

MicroTouch™ CRT touch monitors provide solutions for a broad range of applications including point-of-sale, hospitality, and retail. An economical choice compared to FPD touch monitors of the same size, our CRT monitors bring you a reliable, high-value touch solution. MicroTouch CRT monitors offer integrators the size options and touch technology needed to meet their customers' needs. Available in 15", 17" and 19" sizes in beige and 15" in black, these touch-enabled monitors 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 CRT monitors are offered with a choice of two touch technologies.

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.\*

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™ CRT Touch Monitors

	15" Beige/Black	17" Beige	19" Beige
<b>FUNCTIONAL FEATURES</b>			
CRT Technology	15" FST (14" viewable) Invar mask	17" FST (16.0" viewable) Invar Mask	19" FST (18.0" viewable) Invar Mask
Display Colors	Unlimited colors	Unlimited Colors	Unlimited Colors
CRT Dot Pitch	.28 mm	.27 mm	.26 mm
CRT Faceplate	Anti-glare, anti-static	Anti-glare, anti-static	Anti-glare, anti-static
Horizontal Scanning Frequency	30-70 kHz	30-70 kHz	30-96 kHz
Vertical Scanning Frequency	50-150 Hz	50-150 Hz	50-160 Hz
VESA Plug and Play	DDC1/2B	DDC1/2B	DDC1/2B
Display Capability	Auto-sync within scan frequencies	Auto-sync within scan frequencies	Auto-sync within scan frequencies
Front Panel Buttons	Power, Select, Adjust, Degauss	Power, Select, Menu, Adjust	Power, Select, Menu, Adjust
On Screen Display Controls	Brightness, Contrast, Horizontal/Vertical Size and Position, Pincushion, Trapezoid, Parallelogram, Pin Balance, Color, Recall, Degauss	Brightness, Contrast, Horizontal/Vertical Size and Position, Pincushion, Trapezoid, Parallelogram, Pin Balance, Color, Recall, Degauss	Brightness, Contrast, Horizontal/Vertical Size and Position, Pincushion, Trapezoid, Parallelogram, Pin Balance, Color, Recall, Degauss
Maximum Resolution	1280 X 1024	1280 x 1024	1600 x 1200
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	Operating Temperature: 0 to 40 degrees C 90% Relative Humidity, Non-condensing
Storage Environment	-25 to +60 degrees C	-25 to +60 degrees C	-25 to +60 degrees C

<b>PHYSICAL FEATURES</b>			
Physical Dimensions (WxHxD)	376 x 405 x 402 mm 14.8 x 15.9 x 15.8 inches	398 x 423 x 395 mm 15.7 x 16.6 x 15.5 inches	458 x 482 x 490 mm 18.0 x 18.9 x 19.3 inches
Display Area (WxH)	265 x 195 mm 10.4 x 7.7 inches	324 x 244 mm 12.8 x 9.6 inches	366 x 275 mm 14.4 x 10.8 inches
Video Cable Connector	15 pin D-sub	15 pin D-sub	15 pin D-sub
Power Supply	100-240 VAC, 50-60 Hz	100-240 VAC, 50-60 Hz	100-240 VAC, 50-60 Hz
Power Savings <sup>1</sup>	DPMS, VESA Compliant	DPMS, VESA Compliant	DPMS, VESA Compliant
Power Consumption	75 Watts Max., utilizes DPMS	85 Watts Max., utilizes DPMS	140 Watts Max., utilizes DPMS
Monitor Life (excluding CRT)	50,000 hrs	50,000 hrs	50,000 hrs
Weight (Net)	12.6 kg/28 lbs.	18 kg/39.6 lbs.	21 kg/46.2 lbs.
Agency Approvals	FCC B, CE, UL/cUL	FCC B, CE, UL/cUL	FCC B, CE, UL/cUL
Colors	Beige, Black	Beige	Beige
Warranty	3 years Monitor 5 years Touch Sensor/Electronics	3 years Monitor 5 years Touch Sensor/Electronics	3 years Monitor 5 years Touch Sensor/Electronics

(1) 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 (the "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 and software 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 and software are not specifically designed for use in medical devices as defined by United States federal law. 3M Touch Systems products and software 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. These 3M Touch Systems' Products and software 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 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)**



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