

3M™ Multi-touch Developer Kit

True Multi-touch for Next-Generation Windows 7 Applications

The 3M Multi-touch Developer Kit consists of a 19-inch wide-aspect ratio (16:10, 1440 x 900 resolution) metal-encased LCD display, with a finished front bezel, desktop stand and USB HID connectivity. As the industry's first 19" multi-touch display, this developer kit provides ISV's with one of the largest displays available to help to meet their development needs and visualize multi-touch in their applications. This developer kit is designed to support the Microsoft Windows 7 operating system and enable the development of next-generation multi-touch applications.

Based on 3M's projected capacitive technology, the 3M Multi-touch Developer Kit supports true multi-touch capability with up to 10 finger resolution and a touch response speed of less than 15ms, independent of the number of fingers on the touch sensor. The inherent capabilities of projected capacitive provide the user with recognition of all touch points with no ghosting effects and side-by-side finger resolution is maintained even when the fingers directly touch. Accuracy across the screen remains constant, deep into the corners and along the bezel edge, so corner buttons are easily accessible.

The touch sensor is a laminated construction with a glass front surface providing both durability and safety for the users. With no visible grid pattern, there's no visual distraction of on-screen images, streaming video or other content that is being manipulated on the touch screen. With a transmission of 88.5% the LCD image remains crisp and clear. The glass surface is impervious to contaminants like dust and dirt and is capable of being fully sealed.



Feature	Benefit
Multi-touch Capabilities	<ul style="list-style-type: none">• Compatible with Microsoft Windows 7• Up to 10 finger input• Supports standard gestures
Projected Capacitive Touch Technology	<ul style="list-style-type: none">• Glass front surface for durability and safety• Can be fully sealed• Works with Nitrile, Latex and Vinyl gloves
Touch Response Time	<ul style="list-style-type: none">• Less than 15ms touch response speed for all fingers on the screen

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Functional Features

LCD Technology	TFT, Active Matrix
Display Colors	16.2 million
Pixel Pitch	.2835mm
Brightness without touch sensor	300 cd/m ² (nit) typical
Brightness with touch sensor (max.) ¹	265 cd/m ² (nit) typical
Contrast Ratio	1000:1 typical
Video Response Time	3.6 ms typical
Touch Response Time	<15ms typical
Viewing Angle ²	Horizontal: +/-80 degrees typical Vertical: +/-80 degrees typical
Control Type	OSD
On-screen Display Controls	Brightness, contrast, horizontal/ vertical position, auto-tune, color
Maximum Resolution	1440 x 900
Operating Environment	0 to +40 degrees C Relative Humidity, non-condensing 90%
Storage Environment	-20 to +60 degrees C

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

(2) Measured at a contrast ratio of 10.

Physical Features

Dimensions

Enclosure (WxHxD)	485.5 x 330.2 x 67 mm 19.13 x 13.01 x 2.64 inches
Display Area (WxH) (viewing area)	408.24 x 225.15 mm 16.08 x 8.87 inches
Packaging (WxHxD)	609.60 x 457.20 x 152.40 mm 24.00 x 18.00 x 6.00 inches

Weight (net)

Enclosure	7.94 kg / 17.5 lb
Packaging/Enclosure	9.07 kg / 20.0 lb
Video Cable Connector	15 Pin D-Sub, DVI
Power Supply External	110/220 VAC Universal Power Supply
Power Consumption	36 watts maximum operation
RoHS Compliant	Yes
Agency Approvals	FCC A, TUV
Warranty	90 days
Part Number	98-0003-3371-0



3M Touch Systems

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