3M™ Multi-Touch Display M1866PW

Sophistication Meets Innovation

The 18.5-inch **3M™ Multi-Touch Display M1866PW** takes interactive display technology to the next level by combining uncompromising multi-touch performance, brilliant high-definition graphics, wide viewing angles and elegant product design into a fully-integrated, easy-to-use, plug-and-play multi-touch desktop device.

Inspired by the industrial design influence of modern consumer devices, the M1866PW display features a stylish flat front surface design that makes it an attractive addition to any professional or retail environment. Beyond contemporary aesthetics, the M1866PW display is designed to meet the unique demands of multi-touch use by featuring a 3M-proprietary anti-stiction surface treatment that allows a user's fingers to effortlessly glide across the screen. The display also features a sturdy and robust base that easily accommodates a full 90-degree position range for more viewing flexibility and while providing an inviting horizontal surface for multi-user on screen collaboration. With a standard 100mm x 100mm VESA mount, this display allows for versatile integration onto a wall, swinging arm or other open surfaces.

The M1866PW display features 3M's industry-leading Projected Capacitive (3M PCT) technology that exceeds the typical touch performance of popular smart phone and tablet devices by offering a high performance multi-touch experience. Recognizing up to 20 simultaneous touch events, each at a 6-millisecond response rate, the M1866PW display also recognizes and rejects the user's palms or arm resting on the screen to help prevent inadvertent touches. This incredible touch performance allows for a more natural user interaction that results in a truly inspired creative experience unrivaled by competitive touch displays.

Complementing the M1866PW display's stylish industrial design and exceptional multi-touch performance is an enhanced, high-definition LCD that displays dynamic, vivid and realistic images essential for creating high impact and engaging user applications. The M1866PW display is LED backlit which not only reduces power consumption, but also offers enhanced brightness, better contrast levels, and more consistent light output as compared to typical CCFL displays. The M1866PW display is able to maintain superior image quality even when viewed at off angles, due to its impressive 178 degree vertical and horizontal viewing angles.

By combining industry-leading multi-touch performance, vibrant high-definition graphics, and wide viewing angles with a fully integrated, industrial-design desktop device, the 3M Multi-Touch Display M1866PW clearly defines the next level of interactive touch displays. Sophistication has met innovation.

Recommended Multi-Touch Applications

- Interactive Point-of-Purchase
- Virtual Concierge
- Assisted Selling
- Healthcare
- Trade Show/Convention
- Software Development
- Telepresence

Feature	Benefit
3M PCT Multi-Touch Technology	• 20-touch multi-touch performance for intuitive on-screen collaboration • Ultra-fast 6 ms touch response time for advanced multi-touch applications • Palm rejection creates natural user operation when using one or two hands • Superior touch accuracy (99% of true position) enables precise touch performance, even at display edge and corners
High Performance HD LCD with LED Backlight	• Vivid realistic images with enhanced brightness and contrast levels creates high-impact on-screen interactive experience • Wide viewing angle for viewing flexibility while maintaining image quality • Provides improved power efficiency and reduced consumption
Sophisticated Flat Front Surface Design	• Provides the elegant and modern aesthetics of popular portable consumer devices • Anti-stiction surface provides improved usability for multi-touch applications • Easy-to-clean surface without bezels • Eliminates dust and debris build up at the edge and corners of the display

3M™ Multi-Touch Display M1866PW Specifications

Functional Specifications

Display Details

LCD Technology	IPS (In Plane Switching)
Backlight	LED
Aspect Ratio	16:9
Display Colors	16.7 Million
Pixel Pitch	0.100 mm x 0.300 mm
Brightness with touch sensor (1)	250 cd/m2 (nit) (typical) 217 cd/m2 (nit)
Contrast Ratio (2)	1000:1 typical
Viewing Angle	Horizontal/Vertical: 178 degrees typical
Video Response Time (3)	9 milliseconds (typical)
Control Type	OSD with capacitive buttons
Native Resolution	1366 x 768 (HD)

(1) Brightness measured on a display with 3M™ Projected Capacitive sensor
(2) Measured at a contrast ratio of 10.
(3) Gray to Gray

Touch Details

Number of Inputs	20 inputs with palm rejection
Touch Point Speed	6 ms
Input Type	Finger, Thin Glove
Touch Communication	USB
Operating System Support	Windows7/Vista/XP, Linux, Mac
Microsoft certifications	Windows 7 AQ

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	HDMI, VGA, Display Port
Multimedia	Audio input, 3 watt audio speaker
VESA Pattern	100mm x 100mm
Power Supply	External, 110/220 VAC Power Supply
Power Consumption	34.5 watts (maximum)
RoHS Compliant	Yes
Agency Approvals	FCC-B, CE, TUV, C-Tick
Warranty	1 year on touch display

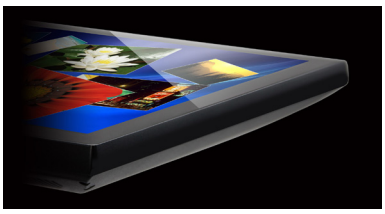
Dimensions and Weight

Physical (WxHxD)	453 x 355 x 180 mm 17.8 x 14.0 x 7.1 inches
Display Area (WxH) (viewing area)	409.8 x 230.4 mm 19.1 x 16.1 inches
Packaging (WxHxD)	527 x 447 x 232 mm 20.7 x 17.6 x 9.1 inches
Display Weight	4.9 Kg / 10.8 lbs
Packaging/Display Weight	7.8 Kg / 17.2 lbs

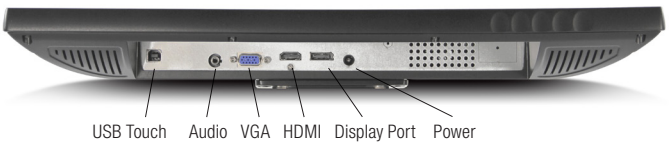
Ordering Information

Part Number	98-0003-3726-5

90-degrees of Adjustment



Flat Front Surface (Virtual Bezel)



Connections

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