

# 3M™ Multi-Touch Display C2167PW

## Commercial-Grade Chassis for Full Multi-Touch Applications

The 21.5-inch **3M™ Multi-Touch Display C2167PW** takes interactive technology to the next level by combining uncompromising multi-touch performance, brilliant high-definition graphics, ultra-wide viewing angles and flat front surface product design into a fully integrated, commercial grade multi-touch chassis device.

### Uncompromising Multi-touch Performance

The C2167PW chassis features 3M's innovative Projected Capacitive (3M PCT) technology that delivers high performance "full multi-touch" capabilities. By recognizing up to 20 simultaneous touch events, each at an ultra-fast 8-millisecond response rate, the system delivers a more natural user experience when compared to single- and dual-touch systems. The design of the projected capacitive sensor has more than 3100 touch sensing points in close proximity, making it precise and very accurate across the entire touchscreen.

3M PCT's durable glass surface has anti-stiction properties that greatly reduces surface friction and allows users' fingers to effortlessly glide across the multi-touch display for easy gesture functions. This fast, accurate and easy-to-use multi-touch interface creates a more natural, intuitive and responsive user interaction that results in a truly inspired experience.

### Commercial Grade Design for Multi-touch Interaction

The C2167PW chassis was designed to meet the demanding needs of public environments while being versatile enough to easily integrate into custom enclosures. The all-steel construction provides a rugged metal frame to securely mount into enclosures. Multiple mounting methods (100mm VESA mount and side brackets) are designed to ensure a proper fit in both horizontal and vertical orientations. In addition to being extremely durable, this chassis also features a stylish flat front surface design that makes it an attractive addition to any professional or retail environment. This bezel-free design also provides an easy-to-clean surface while eliminating the dust and debris build up at the edge and corners of the display.

### Optimal Display for Multi-touch Interaction

The high-definition, high-contrast LED backlit display provides impressive picture quality for vibrant, true-to-life graphics, dynamic full HD



### Recommended Multi-Touch Applications

- Kiosks
- Gaming and Amusement
- Point of Information
- Audio Visual
- Industrial Automation
- Digital Signage
- Self Service
- Exhibits and Events
- Media and Broadcast
- Training and Simulation

(1920x1080) video content and crisp, clear images. The C2167PW chassis delivers brilliant images from nearly every angle with its ultra-wide viewing angle (178 degree viewing in both vertical and horizontal directions). Since typical chassis mount applications are fixed, the ultra-wide viewing angle will help create an immersive experience regardless of the user's height or position relative to the display and regardless of the orientation of the display (portrait or landscape). As multiple users interact with the multi-touch display, especially in a horizontal or tabletop position, the ultra-wide viewing angle will ensure that all users experience the same brilliant content. To ensure the image quality is not compromised in strong ambient lighting environments, this display features an anti-glare coating. This anti-glare coating is essential in public environments as these spaces typically have overhead fluorescent lights.

| Feature                                      | Benefit   |
|--|---|
| 3M PCT Multi-Touch Technology                | <ul style="list-style-type: none"><li>• 20-touch multi-touch performance for intuitive on-screen collaboration</li><li>• Ultra-fast 8 ms touch response for advanced multi-touch applications</li><li>• Anti-stiction surface enhances the user experience for simple and advanced gestures</li></ul>   |
| Commercial Grade Design                      | <ul style="list-style-type: none"><li>• All steel construction provides rugged frame for public use environments</li><li>• Multiple mounting options for ease of installation</li><li>• Flat front surface design for elegant modern aesthetics</li><li>• Eliminates dust and debris build up at the edge and corners of the display</li><li>• Anti-glare coating helps maintain image quality even in bright lighting environments</li></ul> |
| Premium Display for Multi-Touch Applications | <ul style="list-style-type: none"><li>• 1920x1080 full high definition resolution for vivid realistic images</li><li>• Ultra-wide horizontal/vertical viewing angle presents a brilliant image at any angle</li><li>• LED backlights deliver a long lasting, bright, uniform image regardless of integrated orientation</li></ul>   |



# 3M™ Multi-Touch Display C2167PW Specifications

## Functional Specifications

### Display Details

|                             |   |
|-----------------------------|---|
| LCD Technology              | IPS (In Plane Switching)<br>PMVA (Premium Multi-domain or Vertical Alignment) |
| Backlight                   | LED   |
| Aspect Ratio                | 16:9  |
| Display Colors              | 16.7 million  |
| Pixel Pitch                 | .248 x .248mm   |
| Brightness                  | 250 cd/m2 (nit) typical   |
| with touch sensor (max.)(1) | 225 cd/m2 (nit) typical   |
| Contrast Ratio (2)          | 1000:1 typical  |
| Viewing Angle               | Horizontal/Vertical: 178 degrees typical                                      |
| Video Response Time (3)     | 16 ms typical   |
| Refresh Rate                | 60Hz  |
| Control Type                | OSD   |
| Native Resolution           | 1920x1080   |

(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 Touch Points   | 20 points with palm rejection          |
| Touch Point Speed        | 8 milliseconds                         |
| Input Type               | Finger, thin glove                     |
| Touch Communication      | USB                                    |
| Operating System Support | Windows 8 / 7 / Vista / XP, Linux, Mac |

## Physical Specifications

### Product Details

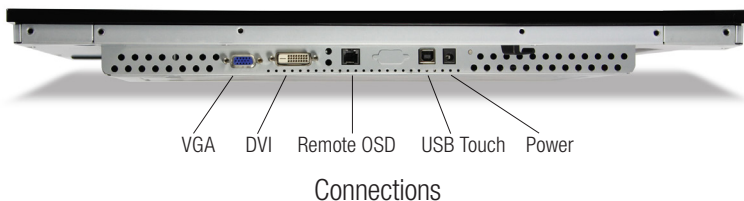
|                       |   |
|-----------------------|---|
| Operating Environment | 0 to +40 degrees C, relative humidity, non-condensing 80% |
| Storage Environment   | -20 to +60 degrees C                                      |
| Video Input           | DVI-D, VGA  |
| VESA Pattern          | 100mm x 100mm   |
| Power Supply          | External, 110/220 VAC Power Supply                        |
| Power Consumption     | 27 watts (maximum)  |
| RoHS Compliant        | Yes   |
| Agency Approvals      | FCC-B, CE, TUV  |
| Warranty              | 1 year on touch display                                   |

### Dimensions and Weight

|                          |                          |
|--------------------------|--------------------------|
| Physical (WxHxD)         | 520.8 x 315.8 x 46.0 mm  |
| (viewing area)           | 20.5 x 12.4 x 1.8 inches |
| Display Area (WxH)       | 476.06 x 267.79mm        |
| (viewing area)           | 18.74 x 10.54 inches     |
| Packaging (WxHxD)        | 610 x 405 x 160mm        |
|                          | 24.0 x 15.9 x 6.3 inches |
| Display weight           | 5.7 kg / 12.6 lbs        |
| Packaging/Display weight | 8.7 kg / 19.2 lbs        |

## Ordering Information

|             |                |
|-------------|----------------|
| Part Number | 98-0003-4242-2 |
|-------------|----------------|



### 3M Touch Systems

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**RoHS Directive compliant:** RoHS 2011/65/EU means that the product or part does not contain any of the substances in excess of the maximum concentration values ("MCVs") in EU RoHS Directive 2011/65/EU, unless the substance is in an application that is exempt under EU RoHS. The MCVs are by weight in homogeneous materials. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M. (3/13)

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