

# 3M™ Multi-Touch Display C2254PW

## Ruggedized Chassis for Next-Generation Multi-Touch Applications

The 22-inch **3M™ Multi-Touch Display C2254PW** combines a 3M Projected Capacitive touchscreen that delivers an ultra-fast, accurate, and precise 20 finger touch response, with a high-definition, wide viewing angle LCD, to create a multi-touch chassis for your next generation interactive application. The rugged all steel frame and a highly-durable glass front surface provide the durability needed for demanding public use environments.

### 3M Projected Capacitive Technology

The C2254PW display uses 3M Projected Capacitive Technology (3M PCT) to deliver “full multi-touch” capabilities. The ability to distinguish 20 touches at 6 millisecond touch response creates a user experience that is more natural, intuitive, and responsive compared to optical-based two touch systems. The design of the projected capacitive sensor has more than 3300 touch sensing points in close proximity, making it precise and extremely accurate across the entire touchscreen. 3M PCT's durable glass touchscreen surface has a unique anti-stiction coating that greatly reduces surface friction and allows users fingers to effortlessly glide across the display for easy gesture functions. This fast, accurate, and easy to use multi-touch touchscreen enables customers to create, deliver and experience innovative and immersive user applications.

### Versatile Rugged Chassis Design

The C2254PW chassis was designed to meet the demanding needs of a public environment 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 offered to ensure a proper fit in both horizontal or vertical orientations. The compact form factor delivers a slim product designed to fit into tight kiosks and can be used to retrofit most 22" chassis in the marketplace.



### Recommended Multi-Touch Applications

- Kiosks
- Gaming and Amusement
- Point of Information
- Audio Visual
- Industrial Automation
- Digital Signage
- Self Service
- Security Monitoring Systems
- Media and Broadcast

### Optimal Display for Multi-Touch Interaction

The high-definition, high-contrast display provides impressive picture quality for vibrant, true-to-life graphics, dynamic HD video content and crisp, clear images. The C2254PW display 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 a user's height or position relative to the display. As multiple users interact with the multi-touch display, especially in a horizontal or table top position, the ultra-wide viewing angle will ensure that all users experience the same brilliant content.

| Feature                                       | Benefit                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Full Multi-Touch Capabilities                 | <ul style="list-style-type: none"><li>• 20 finger multi-touch input</li><li>• Fast 6 millisecond touch response</li><li>• Enables next-generation interactive software applications well beyond two touch expectations</li><li>• Anti-stiction surface enhances the user experience for simple and advanced gestures</li><li>• Native multi-touch support with Windows 7</li><li>• Supports Windows XP and Linux Operating systems</li></ul> |
| Versatile Rugged Chassis Design               | <ul style="list-style-type: none"><li>• All steel construction provides rugged frame for public use environments</li><li>• Slim profile for fit into compact enclosures</li><li>• Multiple mounting options (100mm VESA Mount and Side Brackets)</li><li>• Small form factor enables retrofit capabilities</li></ul>                                                                                                                         |
| Display Designed for Multi-Touch Applications | <ul style="list-style-type: none"><li>• 1680x1050 high definition resolution</li><li>• Ultra-wide horizontal/vertical viewing angle (178 degrees) allows outstanding off-axis viewing</li><li>• High contrast delivers sharp brilliant image quality</li></ul>                                                                                                                                                                               |



# 3M™ Multi-Touch Display C2254PW Specifications

## Functional Specifications

### Display Details

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| LCD Technology                        | P-MVA (wide angle viewing technology)    |
| Display Colors                        | 16.7 million                             |
| Pixel Pitch                           | .282 x .282mm                            |
| Brightness                            | 300 cd/m <sup>2</sup> (nit) typical      |
| with touch sensor (max.) <sup>1</sup> | 270 cd/m <sup>2</sup> (nit) typical      |
| Contrast Ratio                        | 1000:1 typical                           |
| Viewing Angle <sup>2</sup>            | Horizontal/Vertical: 178 degrees typical |
| Video Response Time <sup>3</sup>      | 8 ms typical                             |
| Control Type                          | OSD                                      |
| Native Resolution                     | 1680x1050                                |

### Touch Details

|                          |                                        |
|--------------------------|----------------------------------------|
| Number of Touch Points   | 20 points                              |
| Touch Point Speed        | 6 milliseconds                         |
| Input Type               | Finger, thin glove                     |
| Touch Communication      | Auto detecting, USB and RS232 (Serial) |
| Operating System Support | Windows 7/Vista/XP, Linux              |

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

(2) Measured at a contrast ratio of 10.

(3) Gray to Gray

## Physical Specifications

### Product Details

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Operating Environment | 0 to +40 degrees C<br>Relative Humidity, non-condensing 90% |
| Storage Environment   | -10 to +60 degrees C                                        |
| Video Input           | DVI and VGA                                                 |
| VESA Pattern          | 100mm x 100mm                                               |
| Power Supply          | 12 VDC Power Supply (external)                              |
| Power Consumption     | 80 watts maximum                                            |
| RoHS Compliant        | Yes                                                         |
| Agency Approvals      | FCC-B, CE, TUV, CCC                                         |
| Warranty              | 1 Year                                                      |

### Dimensions and Weight

|                                      |                                                      |
|--------------------------------------|------------------------------------------------------|
| Physical (WxHxD)                     | 500.0 x 328.4 x 51.87 mm<br>19.7 x 12.9 x 2.0 inches |
| Display Area (WxH)<br>(viewing area) | 473.8 x 296.1 mm<br>18.7 x 11.7 inches               |
| Packaging (WxHxD)                    | 610 x 490 x 194 mm<br>24.0 x 19.3 x 7.6 inches       |
| Display weight                       | 7.0 kg / 15.4 lb                                     |
| Packaging/Display weight             | 12.5 kg / 27.6 lb                                    |

Part Number 98-0003-3601-0



Input Connections

Slim Design



Optional Remote On-screen  
Display Module  
(Part number: 30114)

### 3M Touch Systems

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