Key Features

- Projected Capacitive
- 10-Point Multi-touch
- Glass-Glass Construction
- Excellent Optical Clarity
- Scratch-Resistant
- Water & Chemical Resistant
- Light Finger Operation
- Common Controller Design for Range of Screen Sizes
- 7” to 23.6”
  27”, 32” & 42” also available
- Broad OS Compatibility
- USB-HID Compatible
- Simplified Development
- Reduced MOQ & NRE
- Accelerated Time to Market

Applications

- Interactive Digital Signage
- Kiosks
- Industrial Control Panels
- Monitors

A D Metro’s Projected Capacitive (PCAP) touch panel kits offer an easy and economical solution for original equipment manufacturers (OEMs) and system integrators to integrate the latest multi-touch technology into control panel, interactive digital signage and kiosk applications.

Users have become increasingly familiar with multi-touch and gesture control, and are now developing expectations of similar interactions when engaging with commercial applications. For developers, multi-touch enables additional degrees of freedom in their design, enabling a richer and more sophisticated user interface experience.

A D Metro’s projected capacitive touch panel kits provide an innovative multi-touch screen solution. Solutions that can reduce development costs and accelerate time to market in embedded applications, by addressing common development issues with PCAP technology.

Each touch panel kit offers a high quality glass-on-glass sensor with excellent optical clarity, bundled with a discrete controller board. The common controller board addresses a range of sensor sizes and formats. This allows the integration of the common controller board into a design that will support a range of screen sizes and formats, enabling greater flexibility during the product development cycle of your application. Since many standard size screen sensors and formats are available as commercial off the shelf (COTS) solutions, they can reduce the potential MOQ and NRE costs often associated with development of PCAP based solutions.

USB-HID compatibility, and the availability of drivers for a broad range of operating systems, simplifies development and accelerates time to market.
Projected Capacitive Datasheet

Sensor Mechanical Specifications
Detection Type: Projected Capacitive
Size Range: 7" - 23.6"
Formats: 4:3 or 16:9
Cover Glass Thickness: 2mm
Cover Glass Hardness: > 6.5 Mohs
Sensor Glass Thickness: 1.1mm
Total Sensor Thickness: 3.3mm
Light Transmission: > 85%
Sealing Compatibility: NEMA 4, 12; IP65

Touch Performance
Input: Finger
Number of Touches: 10
Touch Force: 0g

Sensor Environmental Specifications
Operating Temperature: -10°C to +60°C, ≤85% RH
Storage Temperature: -10°C to +65°C, ≤85% RH
Relative Humidity: ≤ 85%
Chemical Resistance: ASTM-D-1308 and ASTM-F-1598-95

Available Options—Enhancements
Cover Glass Thickness: 0.7, 1.1, 3.0, 4.0mm
Sensor Glass Thickness: 0.7mm
Chemically Strengthened Glass

Controller Specification
Part Number: CC-02-102WL-02
Sensor Viewing Area Size Range: 7" - 23.6"
Operating Voltage Range: 3.5 - 5.5V
Current—Operating Mode: 60mA
Current—Suspend/Sleep Mode: 40mA
Current—Sleep Mode: < 5mA
Operating Temperature: 40°C to +90°C
Storage Temperature: 40°C to +85°C

Touch Parameters
Number of Touches: 10
Touch Refresh Rate: > 100Hz
Response Time: < 25ms

Regulatory
RoHS: Yes

Interface
Interface: USB 2.0
Powering: USB

Operation System Compatibility
OS Driver Support: Windows XP, 7, 8, 10;
Windows CE.net/5.0/6.0/7.0
Windows Embedded
Linux Debian 5 Kernel 2.6.34.7
Android
Mac OS, Mac OS X

Also Available In Other Sizes:
Standard Sizes: e.g. 27", 32", 42"
Custom Sizes: Upon request

Disclaimer: Technical specifications are provided for guidance and subject to change without notice. Specifications and performance may depend on sensor dimensions, selected options, installation and mounting. Please contact A D Metro for confirmation of the applicable specifications, individual sensor drawings, as well as installation and mounting best practices.

ABOUT US:
Established in 1988, A D Metro designs, manufactures and supplies innovative touch screen technology solutions for original equipment manufacturers (OEMs), system integrators and value added resellers. Everyday A D Metro’s products are touched by millions of people around the world. Our ULTRA product line is the most durable resistive touch screen sensor available on the market and our projected capacitive (PCAP) touch screen solutions simplify design and accelerate time to market.

Contact us, for more information on our innovative touch screen products, enhancements and custom manufacturing solutions.