

PCAP Plus

Advanced Projected Capacitive Touch Technology

Pushing the boundaries of current project capacitive capabilities, Touch International's new PCAP Plus Technology features full multi-touch with gestures and works with finger, heavy glove, or any other input. The added displacement layer also reduces radiated emissions and decreases EMI/RFI susceptibility. Going beyond standard touch capabilities and enhancing functionality, PCAP Plus works in any environment, even submerged in water. This versatile technology is perfect for military, industrial, and transportation applications.

At a Glance

- Multi-touch / Gesture Capable (4 Fingers Currently, 10 Fingers Q2 2014)
- Windows 7/8 Compatible
- Passes MIL-STD-461F / DO-160E / CISPR 25 spec for EMI Compatibility
- Finger, Glove and Any Other Input Device
- Multiple Cover Layer Options
- EMI and RFI Supression / Reduced EMI Susceptibility
- Up to 12" Available Q1 2014 / Up to 24" Q2 2014



PCAP Plus is immune to on-screen contaminants, extreme temperatures, and even works when submerged in water. Easy to use, PCAP Plus requires only light pressure to activate and is precise and highly responsive. PCAP Plus doesn't require recalibration, is maintenance free, and comes with a 5 year warranty.

For additional information on Touch International products and solutions, contact a sales representative or e-mail sales@touchintl.com.

Applications



Cockpit Systems



Medical



Military Equipment



Transportation

PCAP Plus is a revolutionary new technology enabling the use of fingers, gloves, and any pointing device to sense touch. Utilizing our latest projected capacitive designs with a proprietary top displacement layer and custom tuning, the touch is sensed using pressure activation. The results are multi-touch compatibility with gestures as well as the ability to use any pointing device including heavy gloves.

Specifications

Optical

Light Transmission Film/Glass/Glass/Glass – 85% ± 3

Electrical

Input Method Finger, Glove, Any Pointing Device
 Insulation Impedance Exceeds 20 Meg Ohms, @10KV
 Operational Voltage D.C. 5V to 9V
 EMI Compliance MIL-STD-461F / DO-160E
 CISPR 25

Mechanical

Touch Screen Thickness (Glass) 1.5mm to 10mm* (depending on sensor construction)
 Surface Hardness 3H to 6H
 Minimum Touch Separation 2cm
 Touch Activation Force 25-50g (Typical)

Environmental

Operation Temperature -15°C ~ 70°C
 Storage Temperature -40°C ~ 85°C, tested at 50% relative humidity, non-condensing for 10 continuous days
 Touch Durability 300 Million Touches in a Single Location (Electrically)
 Flammability UL 94HB (Varies Based on Touch Screen Materials)*
 Chemical Resistance Tested for Resistance to Methyl Alcohol (50%), Ethyl Alcohol (50%), Toluene, Acetone, Benzene

Other Specifications

Warranty 5 Years



* Please note, these specifications are approximations. Testing is currently underway to verify exact data.