



Innovative
Solutions in Touch Screen Technology

Touch Screen Technology Brief

Comparison of Touch Screen Sensor Technology

CHARACTERISTIC	ULTRA Resistive	Resistive	Surface Capacitive	Projected Capacitive	SAW	Infra-Red
Activation Type	Pressure Activated	Pressure Activated	Proximity of grounded object	Proximity of capacitive object	Interception of acoustic wave	Interception of infra-red light
Method of Operation	Finger, Any stylus, Any glove	Finger, Any stylus, Any glove	Finger, Conductive stylus, Light glove	Finger, Conductive stylus, Light glove	Finger, Any glove	Finger, Any glove
Vulnerability to Miss-Operation	Limited	Limited	Conductive objects near screen, RF signals	Conductive objects near screen, RF signals	Foreign objects on screen	Foreign objects on screen
Touch Resolution	High	High	Low	Moderate	Moderate	High
Outdoor Operation	Yes	No	No	No	No	No
Screen Hardness*	6.5 Mohs	3H Pencil	6.5 Mohs	6.5 Mohs	6.5 Mohs	6.5 Mohs
Multi-Touch Operation	No	No	No	Yes	No	No
EMI Stealth (Immunity to EMI)	Excellent	Excellent	Poor	Poor	Excellent	Excellent
Optical Clarity	≥84%	≥80%	≥85%	≥85%	≥92%	≥90%
Available Sizes*	3.5" – 24"	3.5" – 24"	12"-26"	7"-42"	10"-32"	10"-19"
Temperature Range (Operational)*	-35°C to 80°C	-10°C to 50°C	-15°C to 70°C	0°C to 50°C	-20°C to 50°C	0°C to 50°C



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* Comparisons with A D Metro products are made based on competitors' published datasheets.

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.