

# Touch Screen Technology comparison

	Resistive	Capacitive	S.A.M	Infrared
Screen overlay required	Yes	Yes	Yes	No
Transparency	75-85%	85-92%	85-92%	92-100%
Colour fidelity	Low	Low	Low	High
Full frame bezel required	Yes	Yes	Yes	Yes
Resolution	High	High	High	Low
Accuracy	Low	Moderate	Low	Low
Cost	Low cost (for small sizes)	Moderate	High	High
Sensitivity	Very sensitive to scratch	Sensitive to dirt	Sensitive to scratch	ambient light
Advantages	Low cost (for small sizes), can detect any object, not sensitive to dust, not sensitive to humidity, not sensitive to water droplets, not sensitive to cleaning chemicals	Moderate cost, good in harsh environments, not sensitive to humidity, not sensitive to temperature, scratch resistant	Can be deployed to a curved surfaces, not sensitive to water droplets,	No overlay, Superior image, can detected any object which blocks, not sensitive to moisture, not sensitive to temperature, not sensitive to cleaning chemicals,
Disadvantages	High costs for large areas, very sensitive to scratch, low fidelity and reduces the visibility of the screen	Finger activation only, reduces illumination, finger must stay in position for detection so no movement	Delicate, expensive and sensitive to scratch	Expensive, detection placed above screen and sensitive to ambient light
Input methords	Finger, Gloved Hand, Stylus	Finger	Finger, Gloved Hand, Soft Pliable Stylus	Finger, Gloved Hand, Stylus