

lobbias
CONSULTANTS

INTRODUCTION

Bias specializes in hardware for the retail, hospitality, Corporate and Banking industries. Based in JHB and KZN.

**Sales of new and refurbished
IT & POS equipment**

**Cable and Harness
Manufacturing**

Electronic Design

Electronic Repairs

**Sales of spares and replacement
parts on new and obsolete equipment**



TOUCH SCREENS & TOUCH SCREEN TECHNOLOGIES

There are 5 different types of touch screen technologies:

- 1. RESISTIVE**
- 2. CAPACITIVE**
- 3. SAW (SURFACE ACOUSTIC WAVES)**
- 4. INFRA RED**
- 5. PROCAP (PROJECTIVE TOUCH THROUGH GLASS)**



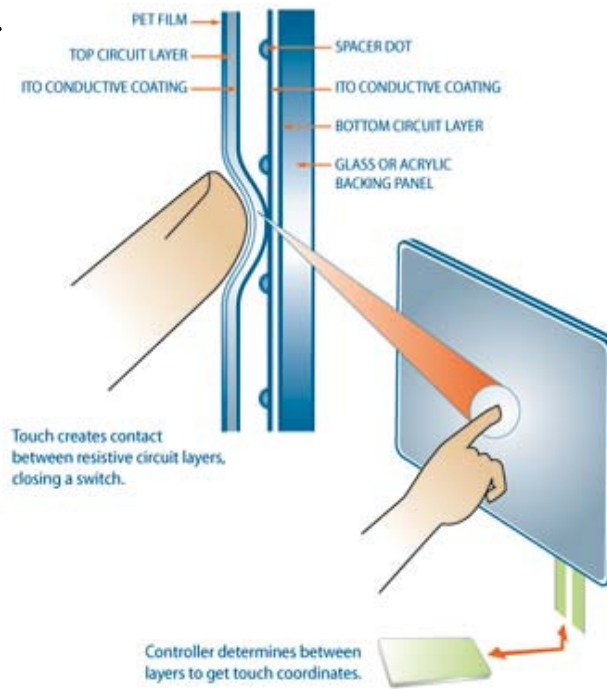
RESISTIVE & CAPACITIVE TOUCH SCREENS

These work with two plastic membranes separated by dots and comes in 4 and 5 wire panels. Controller works out X:Y coordinate as the layers are pushed together.

Cheapest & older type of technology

Tends to leave marks with prolonged use, due to pressing of the same buttons

Size range: 12.1" to 19"



Robust, reliable and cheap – very popular in greasy and dirty environments (e.g. take aways)

Careful cleaning as strong cleaning agents could damage the overlays

2 year warranty

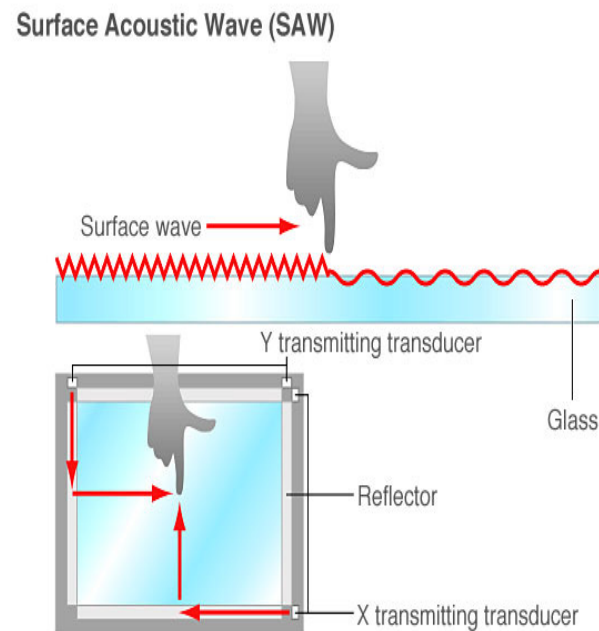
SAW (SURFACE ACOUSTIC WAVES)

These work with transducers in each corner of the glass panel. The transducers transmit signals vertically and horizontally to form a grid. When one touches the screen and breaks the sound wave, the touch controller determines where to touch and moves the mouse to position.

Newer technology,
affordable and lasts
5-8 years

No marks as touch
directly on the glass -
no membrane

Size range: 12.1" to 19"



Works well in clean
environments. (E.g.
Retail shops)

Do not use outside or in
dusty areas – will glog up
the transducer

Easy to clean

2 year warranty



INFRA RED PANELS

Works the same as SAW but instead of an acoustic wave grid the panel operates on an infra red grid.

Newest and latest technology

Does not require any calibration

Need regular cleaning, as dust and grime collect at the bottom sensors and cause the cursor to drift and become unstable



Popular with advertising and indaba's – Can convert any LCD to a touch screen by placing a bezel on top of the screen – no need to strip

Size range: 12.1" to 67"

2 year warranty



PROCAP OR PROJECTIVE TOUCH

These panels work through glass and operates on the change in capacitance of the area touch via the finger.

Used in malls and shops when shops are closed – display is securely locked and touch projected onto glass



Popular for advertising, interactive kiosks, estate agents – interactive advertising platform



TOUCH SCREENS - SO WHAT DOES BIAS DO?

- We sell all types of Touch Screen technologies
- We design and manufacture touch screens to specification
- We sell individual kits for those who build their own
- We repair all types and makes of touch screens
- We are the official warranty repair center for IBM, ELO G-Touch and Keetouch
- Most value for money is the Keetouch Touch Screen for the retail and hospitality markets



KEETOUCH TOUCH SCREEN - DEMO

- Keetouch Screen (NEW)
- R3200ex (greater discount on volume)
- 2 yr warranty
- 17" SAW/UBS/RS323 HUB/Water Resist.





THE END – THANK YOU!

