

Resistive Touch Screen 4 / 5 / 8 Wire

ITO Touch Screen is an interactive input device integrated onto electronic display. The operator can simply give the instructions by touching the touch screen. The touch screen consists of two conductive layers. The top layer is ITO film while the bottom layer can be either ITO film or ITO glass. The top layer is suspended by very small spacer dots and the smallest dot we can handle now is $\phi 0.035\text{mm}$.

When the operator touches the touch screen, the conductive inner surface of the ITO film makes contact with the conductive coating on the top surface of the ITO film or ITO glass. Then, the controller senses the touch and passes the information to the corresponded IC.

How it works

Resistive Touch Screen is consists of a flexible top layer (PET) and a bottom layer (Glass or PET) separated by tiny spacer dots. The inside surface of each layer is sputtered with a transparent conductive coating (ITO). When the pressure of the touch creates contact between top and bottom circuit layers, the touch screen's controller alternates voltage between the two resistive circuit layers to determine touch coordinates and communicates to the host computer.

Features

- 1) Resistive 4 Wire : Cost effective solution for consumer application.
- 2) Resistive 5 Wire : Functions even if top layer is damaged. High endurance for resistive touch screen.
- 3) Resistive 8 Wire : Automatically correct the drift issue and prevent from re-calibration after long term usage.

Main Application

LCD Module, PDA, PC IA product, Mobile Phone, Handy Instrument, Industrial Computer, POS system, Kiosk, E-Book, Web Pad, Car Navigation System, Information Terminal, Signature Capture Device, Toys...etc.

Highlights & Benefits

- Input flexibility -finger (with/without glove), stylus, pen, credit card.
- FPC tail technology surpasses those of our competitors.
- FPC has lower resistance and is more flexible than PET or ITO film used by other suppliers.
- Excellent optical performance even with anti-glare hard coating film.
- Capable of handling spacer dots diameter less than 0.035mm (smallest in the industry).
- Haze < 6% (best optical performance in the industry).
- Various choices of surface treatments available.
- Anti-Newton ring, anti-glare, special chemical hard coating.

Resistive Touch Controller

Interface : Serial, PS/2, RS232, USB (with auto detect function)

Operating System : DOS, Win 3.1 / Win 95 / Win 98 / Win NT 4.0 / Win 2000 / Win ME / Win XP / Win CE, Linux, iMac

Power Requirements : +5VDC (max. 100mA, typical 70mA, 50mV peak to peak max. ripple)

Operating Temperature : 0°C ~ 60°C

Storage Temperature : -40°C ~ +80°C

Relative Humidity : 90% at 60°C

Standard Models

Model No.	Spec.	External Dimension	View Area Dimension	Active Area Dimension
ST-028A	2.8" In	70.00x55.00 mm / 2.76"x2.11"	59.60x46.100 mm / 2.35"x1.81"	58.00x44.000 mm / 2.28"x1.73"
ST-038A	3.8" In	89.400x69.400 mm / 3.52"x2.73"	80.90x60.980 mm / 3.19"x2.40"	79.90x59.980 mm / 3.15"x2.36"
ST-042A	4.2" In	94.800x69.600 mm / 3.73"x2.74"	88.80x61.600 mm / 3.50"x2.43"	86.80x59.600 mm / 3.42"x2.35"
ST-047A	4.7" In	110.74x89.41 mm / 4.36"x3.52"	101.09x76.960 mm / 3.98"x3.03"	98.09x73.960 mm / 3.86"x2.91"
ST-058A	5.8" In	138.00x108.00 mm / 5.43"x4.25"	118.00x80.000 mm / 4.65"x3.50"	116.00x87.000 mm / 4.57"x3.43"
ST-058B	5.8" In	138.00x108.00 mm / 5.43"x4.25"	118.00x89.000 mm / 4.65"x3.50"	116.00x87.000 mm / 4.57"x3.43"
ST-058C	5.8" In	141.00x104.70 mm / 5.56"x4.12"	122.00x93.850 mm / 4.80"x3.69"	115.17x86.370 mm / 4.53"x3.40"
ST-065A	6.5" In	156.00x120.00 mm / 6.14"x4.72"	136.00x100.00 mm / 5.35"x3.94"	134.00x98.000 mm / 5.28"x3.86"
ST-074A	7.4" In	171.90x127.40 mm / 6.77"x5.01"	148.90x112.40 mm / 5.86"x4.43"	145.90x109.40 mm / 5.74"x4.31"
ST-084A	8.4" In	208.00x152.00 mm / 8.19"x5.98"	176.00x133.00 mm / 6.93"x5.24"	171.00x128.00 mm / 6.73"x5.04"
ST-084B	8.4" In	188.98x141.73 mm / 7.44"x5.58"	173.98x131.32 mm / 6.85"x5.17"	172.21x129.54 mm / 6.78"x5.10"
ST-094A	9.4" In	234.00x174.00 mm / 9.21"x6.85"	211.00x158.00 mm / 8.31"x6.22"	196.00x148.00 mm / 7.72"x5.83"
ST-104A	10.4" In	277.00x180.00 mm / 9.33"x7.09"	216.20x163.40 mm / 8.51"x6.43"	212.00x159.40 mm / 8.35"x6.28"
ST-121A	12.1" In	271.00x205.00 mm / 10.67"x8.07"	253.00x191.00 mm / 9.96"x7.52"	248.00x186.00 mm / 9.76"x7.32"
ST-150A	15" In	330.00x255.00 mm / 13.00"x10.04"	310.00x225.00 mm / 12.20"x8.25"	303.00x227.00 mm / 11.93"x8.94"
ST-150B	15" In	330.00x243.00 mm / 12.60"x9.57"	300.00x228.00 mm / 11.81"x8.98"	285.00x216.00 mm / 11.22"x8.50"
ST-150B-Ex	15" Ex	311.00x254.00 mm / 12.24"x10.00"	293.00x233.00 mm / 11.54"x9.17"	284.00x224.00 mm / 11.18"x8.82"
ST-170A	17" In	362.00x278.00 mm / 14.25"x10.94"	340.00x260.00 mm / 13.39"x10.24"	330.00x228.00 mm / 12.60"x9.37"
ST-170B	17" In	366.00x294.50 mm / 14.40"x11.60"	342.00x274.50 mm / 13.46"x10.81"	334.00x266.50 mm / 13.15"x10.49"
ST-170C	17" In	358.50x296.50 mm / 14.11"x11.68"	341.90x274.50 mm / 13.46"x10.80"	337.92x270.34 mm / 13.30"x10.64"
ST-170D	17" In	360.50x290.00 mm / 14.19"x11.41"	343.00x268.00 mm / 13.50"x10.55"	332.00x257.00 mm / 13.07"x10.12"
ST-181A	18.1" In	388.00x313.00 mm / 15.28"x12.32"	363.00x291.00 mm / 14.29"x11.46"	357.00x285.00 mm / 10.06"x11.22"
ST-190A	19" In	395.00x300.00 mm / 15.56"x11.81"	375.00x284.60 mm / 14.76"x11.20"	360.00x269.60 mm / 14.17"x10.61"
ST-210A	21" In	438.00x331.00 mm / 17.24"x13.03"	416.60x315.00 mm / 16.40"x12.40"	402.60x301.60 mm / 15.85"x11.87"

