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E Series SI Model

Infrared touchscreen (Solar-Immunity)



The IRTOUCH E-Series SI Model (Solar-Immunity Enhanced Product) extends reliable interactive solution to challenging outdoor environment, from moderate sunlight exposure, to comprehensive and full sunlight exposure.

E Series Touchscreen product List (The types and specifications are only for your reference, please contact us for details)

Size (Inch)	Model	Touchscre Thickness (mm)	Touch Active Area			Outside Dimensions		Drawing
			Height (mm)	Width (mm)	Diagonal (mm)	Height (mm)	Width (mm)	
6	E06	8.3	99.4	132.5	163.64	136	169	E06View
8	E08	6.8	128.6	171.6	214.44	161.6	210.6	E08View
10	E10	6.8	158.4	211.2	264	191.4	244.2	E10View
12	E12	6.8	185.2	246.4	308.24	220.7	281.9	E12View
15	E15	6.8	230	306	382.8	266	342	E15View
17	E17	6.8	272	340	435.41	308	376	E17View
19	E19	6.8	303	378	484.45	339	414	E19View
19	E19(W)	8	257	411	484.74	297	451	E19(W)
21	E21(W)	8	269	477.5	548.1	309	517.5	E21(W)
24	E24(W)	8	324	518.4	611.3	364	558.4	E24(W)

Benefits:

While pushing the solution to outdoors, the SI Model maintains all the intrinsic features and benefits of the indoor E-series product:

- Robust operation, scratch proof, vandal proof
- Versatile activation, by finger, gloved hand or any other opaque stylus
- Best optical transparency
- Maintenance free, no drift, calibration free
- Slim profile with integrated controller
- Self diagnostics
- Dual touch support optional

Typical Applications:

The SI Model offers different levels of solar immunity support

SI Model	Application Environment	Typical Setting
Level I Moderate Enhancement	Controlled sunlight exposure Indoors / outdoors, partial outdoors	POS, by the window POS, outdoor nursery In-vehicle with sun exposure Highway toll booth Outdoor kiosks
Level II Comprehensive Enhancement	Extensive sunlight exposure Stringent condition	Marine, Boating deck Open mines, Desert
Level III Full Enhancement	Full sunlight exposure Stringent condition	Per custom requir

Size

General Size	6.4" to 24"
Customized Size	5.7" to 24"
Fit in with	Panel display device

Performance

Resolution (Interpolation)	4096*4096
Linearity Error	1.5mm

Mechanical

Input Method	Finger, gloved hand or opaque object
Touch Times	Unlimited
Touch Activation Force	No minimum touch activation force is required with IR touch technology
Minimum Touch Object	8mm
Vandal-proof	Can meet ball drop test (1.040kg, 63.5mm diameter ball dropped from height of 1.0m)
Surface Durability	Surface durability is that of glass, Mohs' hardness rating of 7

Optical

Light Transmission	≥92%, up to 100% (no glass)
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Environmental

Temperature	Operating: -20°C~70°C Storage: -40°C~85°C
Relative Humidity	Operating: 90% RH (non condensing at max 40°C) Storage: 90%RH (non condensing at max 40°C)
Altitude	Up to 3,000m
Seal ability (front panel)	IP 65
Life Time	At least 7-year

Electrical

Operation Voltage	Typical +DC 5V, +4.75V to +5.25V
Power Supply	USB or PS/2 Interface, power ripple max. 200mV rms
Power	<1W, operating current <200mA
Agency Approvals	CE, FCC Class B
Interface	USB/EIA-232E
Operation System	Windows7\Vista\XP\2003\2000\CE, Linux, MacOS

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