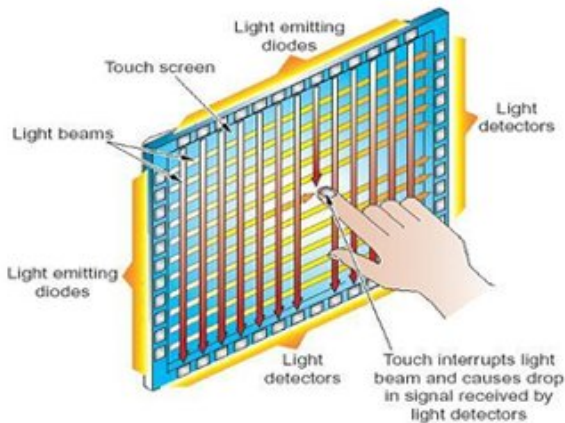


Infrared Touch

- Integrated Type

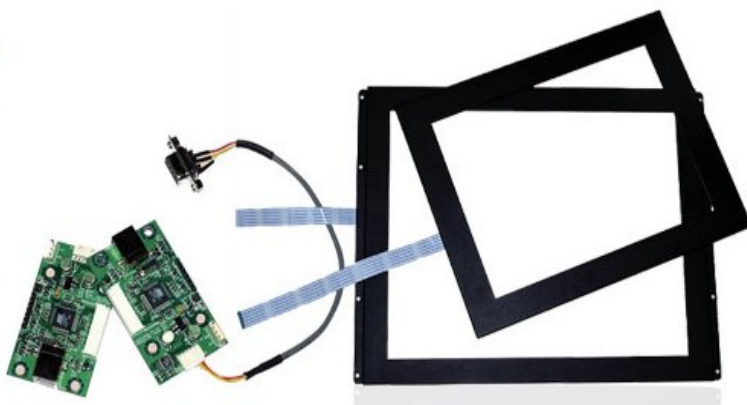


● How it Works.

Infrared technology relies on the interruption of an IR light grid in front of the display screen. The touch frame or opto-matrix frame contains a row of IR-light emitting diodes (LEDs) and photo transistors, each mounted on two opposite sides to create a grid of invisible infrared light. The frame assembly is comprised of PCBs on which the opto electronics are mounted and are concealed behind a IR-transparent bezel which shields the opto's from the operating environment whilst allowing the IR beams to pass through. When touching the screen one or more of the beams are obstructed resulting in an X and a Y coordinate being sent to the control electronics to indicate the exact touch point.

● Specification

Input Method	Finger or gloved hand activation
Resolution	16,384 x 16,384
Position Accuracy	Typically 2.5mm
Touch Activation Force	None, no force required
Operating Voltage	DC5V
Power	0.6W @ 120mA (DV5V)
Transmissivity	92% ~ 100%
Response Time	>10mS
Touch Life	60 Million touches on a single point
Glass thickness (if required)	3.2mm with anti-vandal properties
Operating Temp.	-20°C ~ +85°C
Storage Temp.	-40°C ~ +85°C
Operating Altitude	3,000m
Sealability	NEMA4 and IP65
Interface	RS-232C or USB
Multi Monitor Support	Split, dual, multi monitor support



● Highlights & Benefits

- Sizes from 10.4" ~ 100" diagonal.
- Drift Free, one time calibration only.
- High Reliability and stability - Hostile environments will not cause any sensor drift.
- High transmissivity – Because the sensor is around the edge of the display light transmission from the display can be up to 100%.
- Long service Life – IR touch has no wear our mechanism.
- Easy Activation – Because touch pressure is not required, no special material or stylus is required for touch activation. The stylus can be soft, hard, conducting or non-conducting.



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● Standard Products

Part #	Size (inch)	Active Touch Area			Outside Dimensions	
		Width (mm)	Vertical (mm)	Diag. (mm)	Width (mm)	Vertical (mm)
NIB104	10.4"	208.7	155.2	206.08	303	230
NIB121	12.1"	240.8	176.6	298.62	329	247.5
NIB150	15.0"	299.6	224.7	374.5	397.5	299
NIB170	17.0"	333.9	270.3	429.59	425	334
NIB190	19.0"	371	302.1	478.44	464	365
NIB220	22.0"	470.8	294.3	555.22	564	364
NIB230	23.0"	508.8	286.2	583.77	602	357
NIB240	24.0"	513.6	321	605.66	615.6	394.4
NIB260	26.0"	577.7	323.3	662.01	669	382
NIB320	32.0"	695.5	390.5	797.63	809	482
NIB400	40.0"	882.8	497.6	1013.38	988	573
NIB420	42.0"	927.5	519.4	1063.03	1045	615
NIB460B	46.0"	1014.6	564.3	1160.42	1105	653
NIB470B	47.0"	1037.9	583.2	1190.53	1132	677
NIB500	50.0"	1107.5	620.6	1269.53	1227	721
NIB550	55.0"	1209.1	679.5	1386.95	1306	776
NIB630	63.0"	1393	783	1597.98	1536	926
NIB670	67.0"	1476.3	826.5	1691.91	1615	966
NIB710	71.0"	1552	868	1783.82	1704	1009
NIB840	84.0"	1692.9	1265.4	2113.56	1902	1475
NIB910	91.0"	2006.4	11229	2299.25	2180	1300
NIB1000	100.0"	2205.9	1236.9	2529.01	2409	1440



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