

# Infrared (IR) Touch Table

The infrared touch is an optically based technology whereby infrared sensors are positioned in a frame around the touch surface. The sensors scan the surface for connection interruptions. When the surface is touched with the hand or an object, the sensors detect that point of contact as the exact point of the interruption.

Design wise, this solution includes a 9 to 12 mm offset between the table surface and the protective glass. When the display size exceeds the capabilities of PCAP touch films, infrared technology opens new worlds.

## Schematic view of an infrared touch table

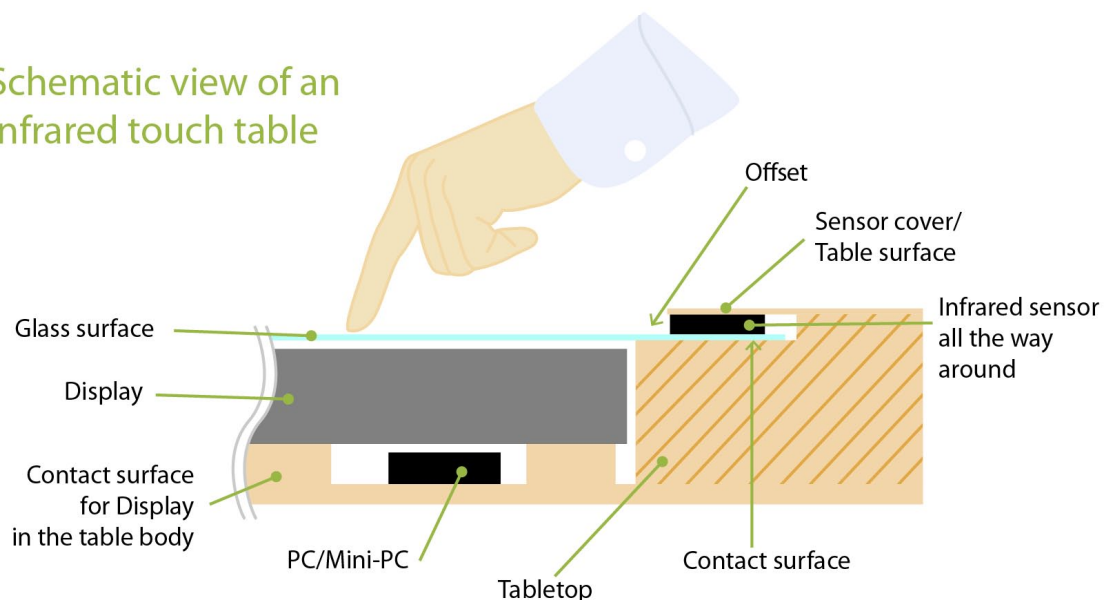


Fig 1. - Schematic structure of an infrared touch table (not to scale)

## Characteristics

- Available as a complete solution incl. table base
- Accurate and fast touch with multi-finger input
- Full HD or 4K capable, suitable for continuous operation
- For display sizes up to 110" as well as large and special formats
- Object detection capability
- Can be used with LCD/LED displays or projection
- Offset between tabletop and protective glass from 9 to 12 mm

## Applications

Directly at the point of sale (consulting or sales table)

Conference or meeting room

Trade fairs and events

Reception area, waiting room

Showroom or Customer Center

Interactive game table

## Specifications

Multi-touch	Available with 2, 6, 10, 32 or 40 touch points
Sensor dimensions	Depth 11.7 mm, width 37.5 mm
Technology	HSIR (Hybrid Scattered Infrared)
Touch input	Finger or Touch Pen
Activation	Optical, no pressure necessary
Response times	3–10 ms
Tolerance	+/- 1 % of the height
Operating systems	Windows 10/8/7/Vista/XP, Mac OS
Speed	Up to 200 fps
Light transmission	100% without glass
Protocols	HID, TUIO, Flash
Interface	USB 2.0
Surface	4-6 mm tempered safety glass, smooth surface for brilliant colors
Power consumption	5 V max, 0.5~3 A
Connections	DisplayPort, HDMI, DVI, VGA
ESD	Per EN61000-4-21995; Level 4. Contact discharge 8 kV, air discharge 15 kV on USB connector pins
Surroundings	Operating: -20~70 °C, Storage: -40~85 °C, Humidity: 10~90 % RH (not condensing)
Certifications	FCC, CE, ROHS