

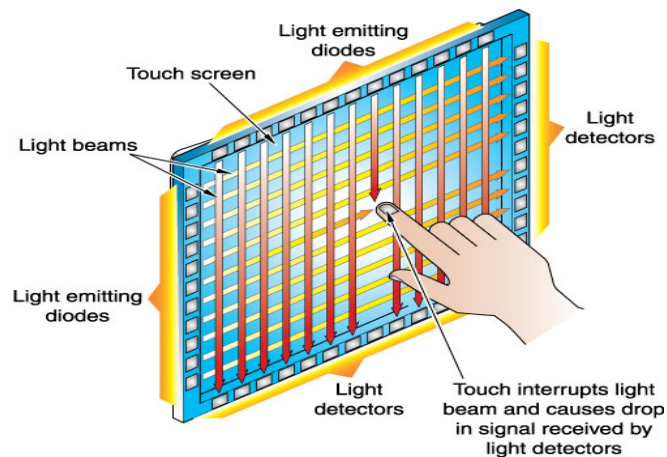
IR Touch Screen

Contents

- Theory
- Quick Install Guide
- FAQ
- Maintenance

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.



Quick Install Guide

1. Put the four sides of the touch frame in accordance with the order A, B, C, D corresponding in order.

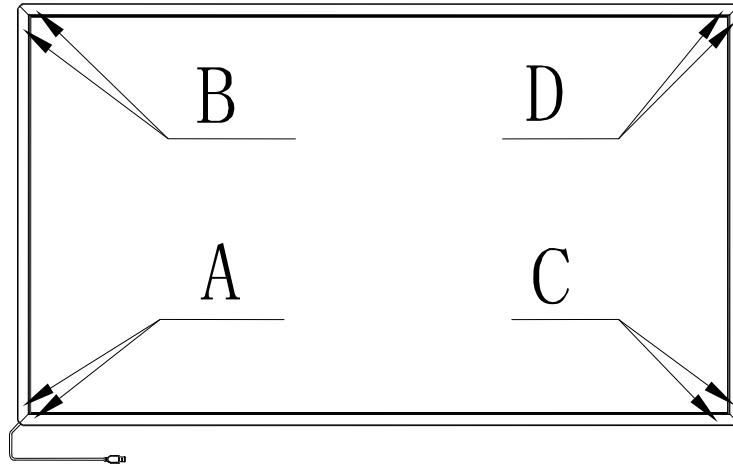


FIG.1 Touch frame Diagram

2. Connect the FPC wiring harness in the corner A-A as shown in fig.2, Install the angle iron and USB as shown in fig.3.

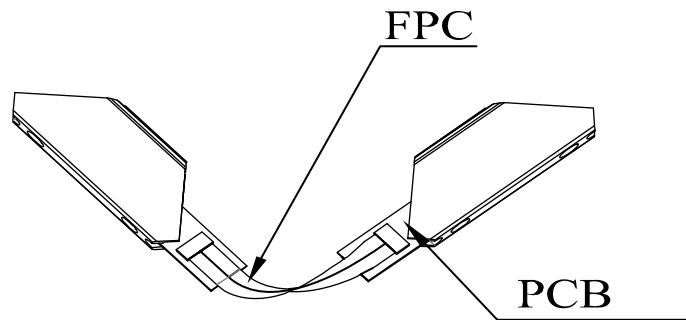


FIG.2 FPC Connection Diagram

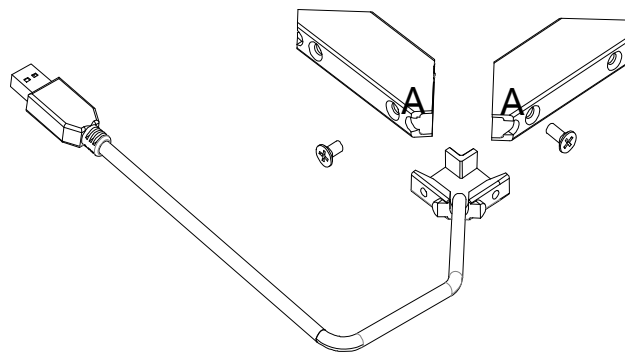


FIG.3

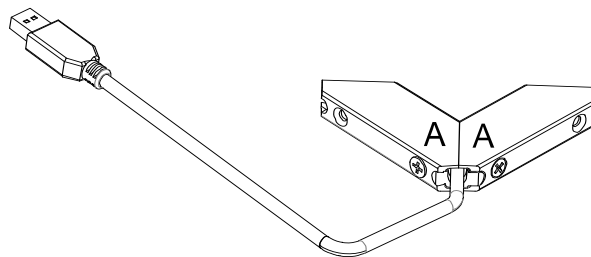


FIG.4

3. Connect the FPC wiring harness in the corner B-B as shown in fig.2, Install the angle iron and USB as shown in fig.5.

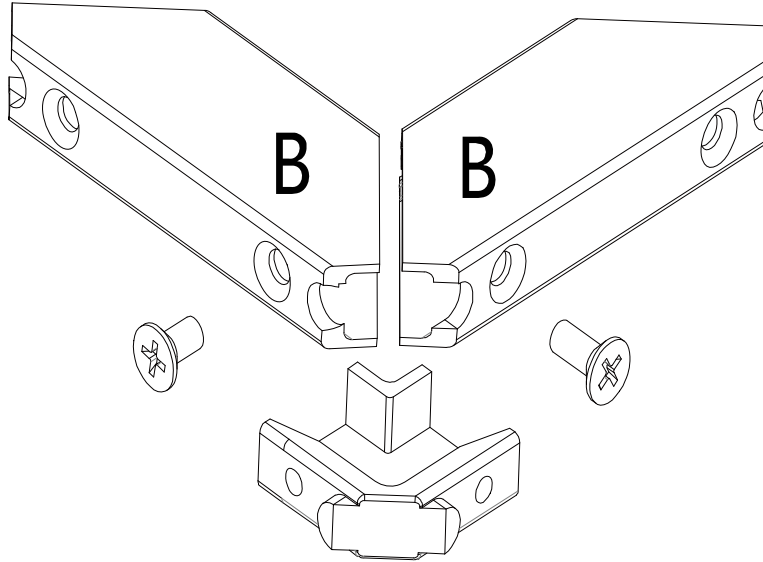


FIG.5

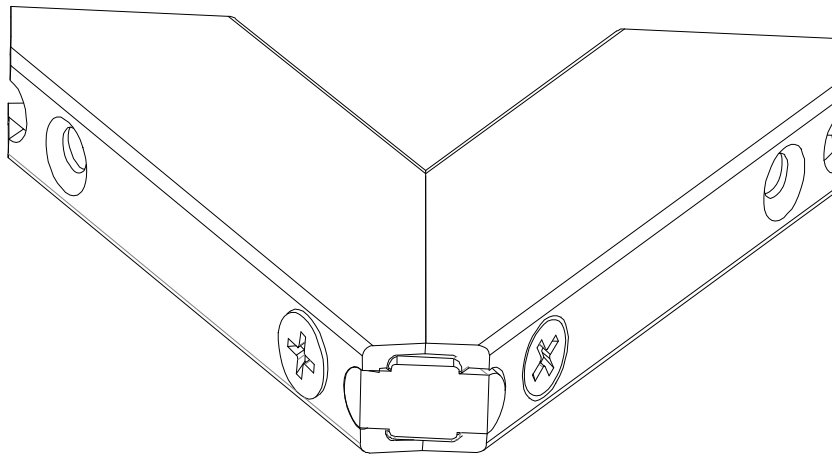


FIG.6

4. Connect the FPC wiring harness in the corner C-C as shown in fig.7, Install the angle iron and USB as shown in fig.5.

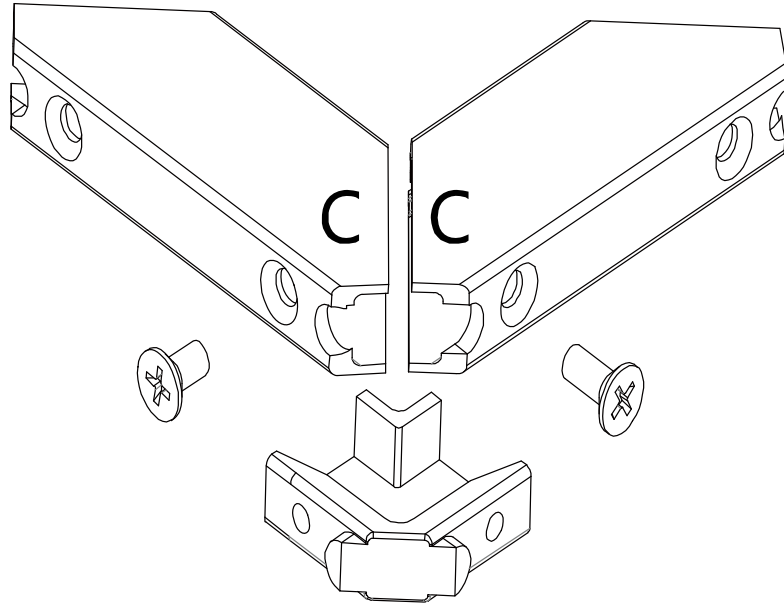


FIG.7

5. The corner D-D do not have FPC wiring harness, Just install the frame as shown in fig.8.

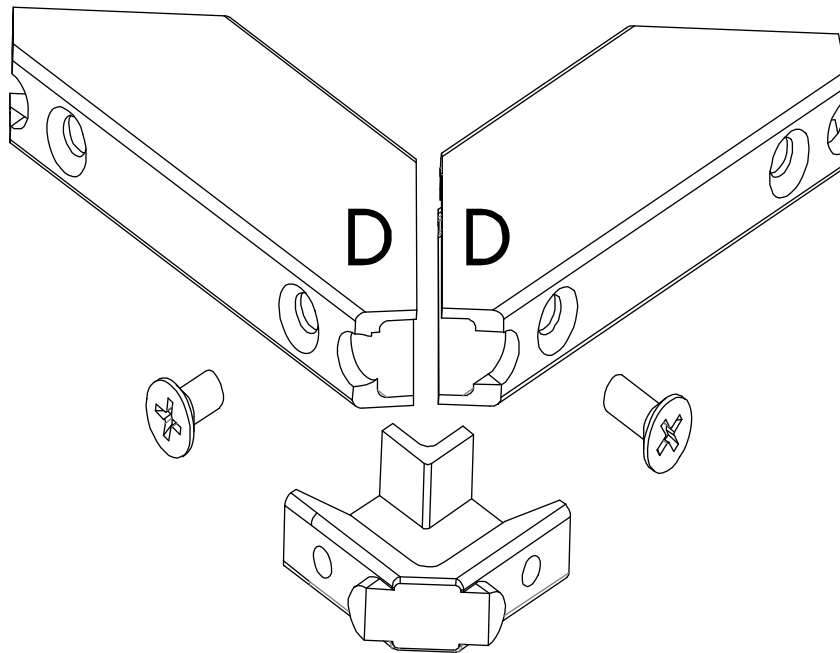
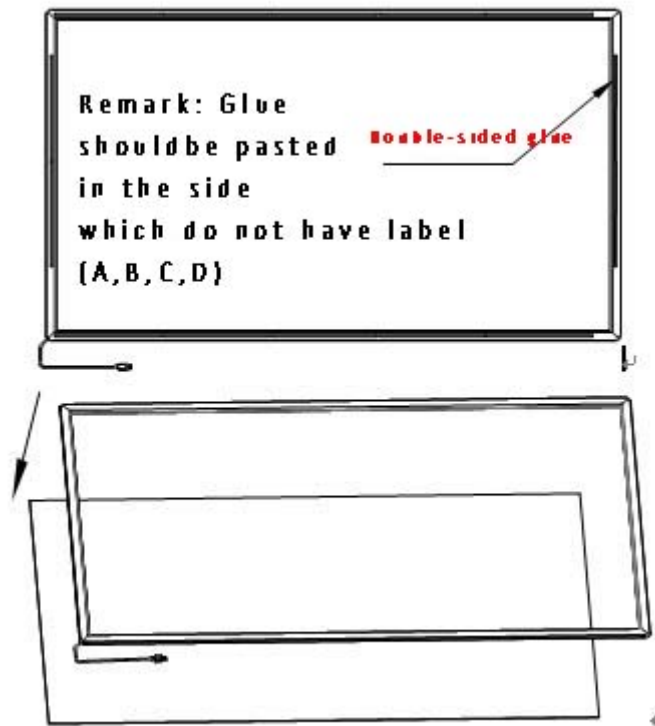


FIG.8

6. Connect the frame to your PC via USB, wait a moment, then the frame is ok after the initial software has been installed automatically.



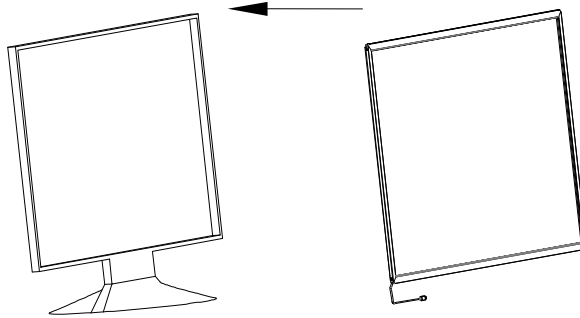
7. Paste the touch frame onto the toughened glass
 - 1) Make sure the air flows fluently, clean the operation floor, and the operation floor should have anti-static treatment.
 - 2) Brush screen cloth, double-sided glue, scissors are necessary
 - 3) Make sure there is not any problem with touch frame
 - 4) Clean the surface of touch frame with brush screen cloth
 - 5) Paste the double-sided glue along the touch frame, the glue should be in the center of the bezel
 - 6) Align the touch frame and toughened glass, press the touch frame all around.



8. Paste the package of touch frame(with toughened glass) to monitor
 - 1) Make sure there is not any problem with touch frame
 - 2) Clean the surface of touch frame with brush screen cloth
 - 3) If the monitor's structure is specially designed for touch frame, you just mount the

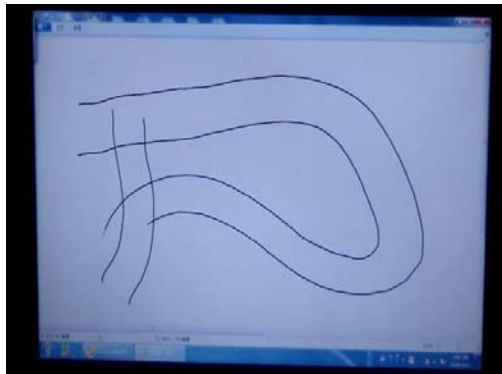
frame into the monitor and screw lock the touch frame

- 4) If the monitor do not have specially design for touch frame, paste the double-sided glue onto the frame of monitor
- 5) Align the monitor and touch frame , make sure the display area is same as touch area, then press the touch frame



9. Examination

- 1) Connect touch frame to PC via USB port, USB2.0 is compatible
- 2) Connect VGA,DVI or HDMI
- 3) Open PC, monitor
- 4) Open the paint software, drawing all around of the touch frame by any Opaque objects whose diameter should bigger than 5mm



FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital

device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

FAQ

Q1. Only one-touch is available while you connect your touch frame to PC

A1: Please check your OS and make sure your OS only be one of Win7 Home premium, Win7 Professional, Win7 Ultimate and Win8. If your OS is XP or Win7 Home Basic, they just support one-touch.

Q2. There is deviation when you touch.

A2: This question needs to be re-calibrated. Win7 has its own calibration tool. Please do as following:

Control Panel ➡ Hardware and Sound ➡ Table PC Settings ➡ Click Calibrate
➡ Choose Touch Input

Then the Calibration Interface comes out. What you need to do is clicking the point one by one. After 16 points, the calibration is done.

Q3. If I want the USB wire to come out from the other corner, what should I do?

A1: Please contact our engineer;

Q4. The touch function does not work when the frame is connected to PC

A4: (1) Check the USB port to make sure they are connected correctly

(2) Make sure if your USB port supports USB2.0

(3) If the above methods do not work, please change the USB port and try again

Q5. Sometimes there comes jump-point or does not work, why?

A5: The electric isolation must be considered while installation. The radiation of strong current can lead to jump-point and break line

Q6. What is the requirement of USB wire between touch frame and PC?

A6: (1) Directly use USB Extender within 10 meters

(2) The USB Extender must add amplifier while the length within 10 to 20 meters

(3) When the distance between 20 to 50 meters, external power supply should be used, and

in order to reduce the signal attenuation, we use network cables with network amplifier to transmit the signal

Q7.What is the glass installation requirements?

A7: The infrared multitouch frame must be close to the surface of glass; the glass should be flat and does not bulge in the middle in case of blocking the infrared light

When the screen is super huge , please push the two X-axis of frame up 5-10mm.

Maintenance

1. Do not beat the frame with metal
2. Do not put heavy objects on the frame
3. Periodic clean the dust around of the frame and glass
4. Turn off the power when the touch screen is not used
5. Don't open touch screen shell, so as not to damage the internal circuit
6. Please consult the agent or manufacturer if you have any problem