

Version	Date	Information Source	Update Details
1.0	09/27/2012	Teddy Xu	First release

Infrared Type Touch Panel

RC1000W(G)0XXS

RC1000G017S

Technical Specification

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PRELIMINARY

1. Characters

IRTOUCH SYSTEMS'S RC-Series infrared touchscreen is designed for Queue application with high vandal proof, maintenance free as well as long life time. This series product is the perfect replacement for existing SAW (Surface acoustic wave touch screen) touch screen.

Benefits:

- Configurable touch area
- Vandal proof, scrape-resistant
- Integrated controller
- Fast response speed
- Maintenance free, long life time
- Fault tolerance design to ensure reliability
- Various touch objects

Typical Applications:

- Queue Machine
- Self-Service Financial Equipment
- KTV

FCC caution:

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

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

2. Order information

Part Number	Description	Version
RC1000G017S	17", 5:4, 3mm general tempered glass, HID	V1.0

Product Naming rule:

Model	Description
RC1000G0XXS RC1000W0XXS	W means wide screen size, G means General screen size, XX means Screen size

3. Specifications

Mechanical Specifications

Input Method	Finger, gloved hand, or any other opaque stylus
Touch technology	Infrared rays interception detection, no special surface coatings
Available size	17"
Outside Dimensions	See Appendix I
Touch Active Area	See Appendix I
Glass	3mm tempered glass(customizable)
Luminous transmission	>88% with glass (depending on anti-reflective surface coating)
Shell Material	Polycarbonate
Touch durability	Unlimited
Touch Activation Force	No pressure required

Electrical Specifications

Controller reported resolution		32767×32767
Touch accuracy	[mm]	<4mm
Touch stylus diameter	[mm]	>10mm
Output form		Coordinate output
Calibration		Simple four-point calibration, no drift
Response Speed	[ms]	<16ms
Power requirements		DC5V±5% @Min 500mA
Power consumption		<1.5W, typical at +5 VDC. Average power dissipation is 1.25W
How to supply it	USB	USB from powered hub
	RS232C	PS2 or USB from powered hub

Interface Specifications

Interface Type	USB	HID
	RS232C	Baud Rate: 38400, 8 Data Bits, 1 Stop Bit, No Parity
Plug and Play	Plug and play and HID compatible(Only HID product)	
Connector Type	USB	A type
	RS232C	DB9/M

Environmental Specifications

Temperature	Operating: 0~55℃ Storage: -30~85℃
Relative Humidity	Operating: 10%-90% RH, 40℃ non-condensing Storage: 10%-90% RH, 70℃ non-condensing
Electrostatic Protection	Per EN61000-4-2 2008: Level 3. Contact discharge 6kV, air discharge 8 kV
Warranty	18 months

Software Specifications

Item	Contents
Scanning Form	Auto Start, Always Scanning
Movement Mode	Input Point, Finishing Point, Following, Continuous Detection
Firmware Upgrade	Firmware can be upgraded from USB/RS232C
Driver software	No software required. Works with Windows native HID mouse driver, IRTOUCH Driver provides additional utilities. (Only HID product)
Touch Functions	Mouse(Click, drag, double click, right-click) on all operating systems listed below
Calibration	Simple one-time four-point calibration, no drift
Monitor	Split, Dual, Multi-Monitor and stretch Mode support
Operating systems	Windows 2000, XP, Vista, Windows 7, Linux, Mac OS X

4. Panel opening Area and Detection coordinate

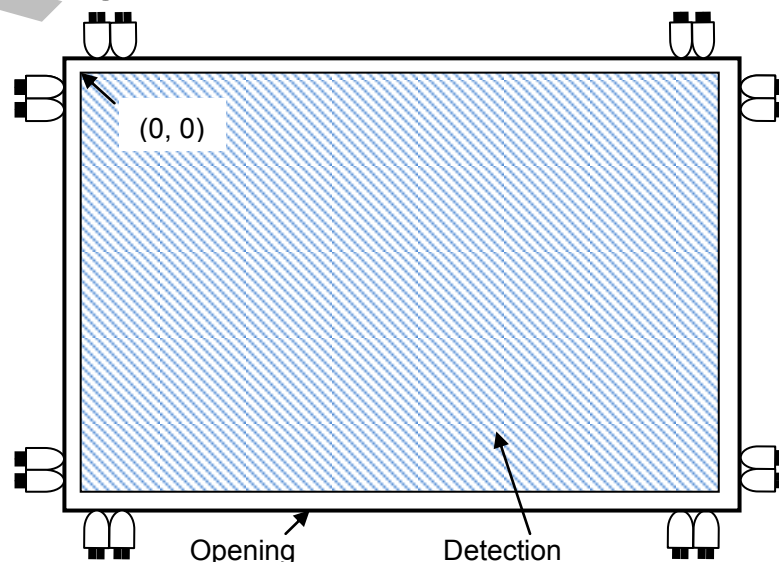
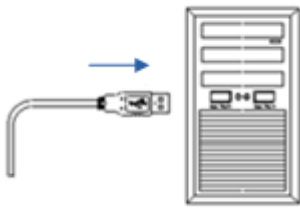


FIGURE 1

5. Installation and use

- 1) Mounted the touchscreen to the corresponding size of the display.
- 2) Insert USB cable of touchscreen into the computer's USB port, as shown below:



Hint: if the touchscreen's USB cable can't reach the computer USB interface, you can add one extended line which IRTOUCH provide.

- 3) Then, you can use and touch, as shown below:



6. Dimensional Drawing

Appendix I: RC1000 Series Product Dimension Drawing

7. ROHS COMPLIANCE

RC1000 Series touchscreen is RoHS compliant.