

#### Innovation Drives Performance, Reliability and ROI



| Version | Date       | Information Source | Update Details                                   |
|---------|------------|--------------------|--|
| 1.0     | 11/01/2011 | Jeff Zhang         | Preliminary version                              |
| 1.1     | 11/28/2011 | Jeff Zhang         | Adjustment document format                       |
| 1.2     | 12/15/2011 | Jeff Zhang         | Add warrant information and material description |
| 1.3     | 04/12/2012 | Teddy Xu           | Update electrical specification                  |

**Infrared Type Touch Panel** 

# RE1400G0XXS RE1400W0XXS

**Technical Specification** 







#### 1. Characters

**IRTOUCH SYSTEMS'S E-Series** infrared touchscreen is designed for LCD monitor. Features such as vandal proof, water proof, maintenance free as well as long life time make the E-series touchscreen an ideal choice for many interactive applications such as POS, touch monitors, Kiosks, etc.

**RE1400** infrared touchscreen is a brand-new creative version compatible with existing infrared E series products and add gesture function to support zoom in and zoom out operation.

#### Benefits:

- · Vandal proof, scrape-resistant
- Integrated controller
- · Support zoom in and zoom out gesture
- · High-precision
- · Fast response speed
- · Maintenance free, long life time
- · Fault tolerance design to ensure reliability
- · Various touch objects



- POS
- Desktop touch monitor
- · Indoor/outdoor kiosk
- ATM
- In-vehicles and transportation
- Medical instrument
- · Industrial control systems
- · Gaming machine
- Ticket machine



| Part Number    | Description                                   | Version |
|----------------|---|---------|
| E15D03U-A01-01 | 15", 4:3, 3mm general tempered glass, HID     | V1.0    |
| E17D03U-A01-01 | 17", 5:4, 3mm general tempered glass, HID     | V1.0    |
| E18D03U-A01-01 | 18.6", 16:9, 3mm general tempered glass, HID  | V1.0    |
| E19D03U-A01-01 | 19.1", 5:4, 3mm general tempered glass, HID   | V1.0    |
| E19D03U-A01-02 | 19.1", 16:10, 3mm general tempered glass, HID | V1.0    |
| E21D03U-A01-01 | 21.6", 16:9, 3mm general tempered glass, HID  | V1.0    |
| E24D03U-A01-01 | 24.1", 16:9, 3mm general tempered glass, HID  | V1.0    |







## 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         | 15"/17"/18.6"/19"/21"/24"   |
| Outside Dimensions     | See Appendix I and II   |
| Touch Active Area      | See Appendix I and II   |
| Glass                  | 3mm tempered glass( customizable)                                 |
| Luminous transmission  | >88% with glass (depending on anti-reflective surface coating)    |
| Shell Material         | Top Shell: Polycarbonate(PC) , Bottom Shell: SGCC, Aluminium      |
| Touch durability       | Unlimited   |
| Touch Activation Force | No pressure required  |

## **Electrical Specifications**

| Controller reported resolution |      | 32767×327  | 67                          |  |
|--------------------------------|------|--|-----------------------------|--|
| Touch accuracy                 | [mm] | <1.5mm(central area), <3.2mm(marginal area)                  |                             |  |
| Touch stylus diameter          | [mm] | >8mm   |                             |  |
| 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 cupply it               |      | USB  | USB from powered hub        |  |
| How to supply it               |      | RS232C   | PS2 or USB from powered hub |  |

#### **Interface Specifications**

| Interface Type | USB  | HID  |  |
|----------------|--|--|--|
| Interface Type | 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, See Appendix III                             |  |
| Connector Type | RS232C   | DB9/M, See Appendix IV                               |  |



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#### **Environmental Specifications**

| Temperature              | Operating: 0∼55°C  |
|--------------------------|--|
|                          | Storage: -30∼85°C  |
| Relative Humidity        | Operating: 10%-90% RH, 40°C non-condensing   |
| Relative Harrianty       | Storage: 10%-90% RH, 40°C non-condensing   |
| Electrostatic Protection | Per EN61000-4-2 2008: Level 3. Contact discharge 4kV, air discharge 8 kV on USB connector pins |
| EMC                      | CE,FCC Class B Compatible  |
| Seal ability             | Can be sealed to meet IP65 standards for front panel (With Glass)                              |
| 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 and support zoom in and zoom out gesture on windows 7 and latest version |
| 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, Android OS  |

# 4. Panel opening Area and Detection coordinate

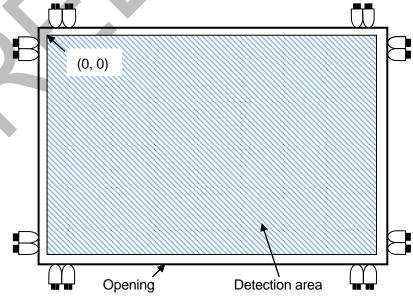


FIGURE 1

## 5. Dimensional Drawing



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Appendix I and II: RE1400 Series Product Dimension Drawing

Appendix III: USB Connector Drawing Appendix IV: DB9/F Connector Drawing

## **6**、ROHS COMPLIANCE

RE1400 Series touchscreen is RoHS compliant.





