

SPECIFICATION

| | |
|--------------------|-----------------------|
| ITEM | INFRARED TOUCH SCREEN |
| MODEL | NIB |
| PART NUMBER | NIB-104B |
| BUYER | |
| DATE | MAR. 10, 2008 |

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|--------------------|
| APPROVED BY |
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|--------------------------|---------|
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1. Revision History

| Date | Rev. No | Page | Summary |
|-------------|--------------|------|---|
| MAR.10,2008 | S-080310-001 | | Approval specification of NIB-104B model was issued first |

2. Mechanical

| | |
|------------------------------|----------------------------|
| Housing | Black powder coated Metal |
| Touch Size (Out line) | 283(w) x 230(h) x 10(d)mm |
| Useful Screen Area | 208.7(h) x 155.2(v)mm |
| Weight | 0.9Kg |
| Drawing | Please refer to Appendix 1 |

3. Touch Characteristics

| | |
|---|-------------------------------------|
| Input Method | Finger or gloved hand activation |
| Touch Activation Force | No minimum touch activation force |
| Position Accuracy | Typical centroid accuracy 2mm |
| Resolution | 2,560 x 1,920 |
| Response Time | Touch : 5ms |
| | Drawing : 9ms |
| Glass | Transmission : 92% Up to 100% |
| | Thickness : 3.2 mm with anti-vandal |
| Optics Number | 40(h) x 30(v) |
| Optics cell pitch | 5.35mm |
| Available Object Sizes for Touch | Touch : Ø6mm |
| | Stylus : Ø7mm |
| Touch Intensity | Unlimited |

4. Electrical

| | |
|---|------------------------------|
| Operating Voltage | DC 4.6V ~ DC 5V |
| Power | 0.6W(Current) 120mA at DC 5V |
| Connector between touch panel and controller | 22pin FPC cable |
| ESD | TBD |

5. Environment

| | |
|---------------------------|---|
| Temperature | Operating -20°C to 85°C |
| | Storage -40°C to 85°C |
| Humidity | Operating 20% to 85% |
| | Storage 0~95% |
| Relative Humidity | Operating 40°C at 90% RH, Noncondensing |
| Altitude Operating | 3,000m |
| Interface | USB 2.0 Full Speed(12Mbps) |
| Detection Method | Infrared rays |
| Seal Ability | Can be sealed to meet IP54 |
| Warranty | 3 years |

6. Controller

6.1 Interface Connector : YEON-HO 10008HR-22L(22pin FPC Cable)

| Pin NO. | Symbol | Description |
|---------|--------|---------------------|
| 1 | GND | GND |
| 2 | GND | GND |
| 3 | Vin | Output Voltage : 5V |

6.3 Interface Connector CN3 : Serial Connector(Molex.53015-0510, YEON-HO 20017WR-

| Pin NO. | Symbol | Description |
|---------|--------|---------------|
| 1 | RX | Received Data |
| 2 | TX | Transmit Data |
| 3 | GND | GND |
| 4 | NC | No connection |
| 5 | NC | No connection |

6.4 Interface Connector CN4 : USB B type Female.

6.5 Drawing : Please refer to Appendix1

7. Touch Panel Drawing : Please refer to Appendix1.

8. Driver Manual : Please refer to Appendix2.

Note : The specification is subject to change without prior notice.