

SPECIFICATION

| | |
|--------------------|--------------------------------------|
| ITEM | Industrial Panel Mount Touch Monitor |
| MODEL | EX |
| PART NUMBER | EX-170 |
| BUYER | |
| DATE | Jun. 27, 2008 |

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1.Revision History

| Date | Rev. No | Page | Summary |
|-------------|--------------|------|---|
| JUN.27,2008 | S-080627-001 | | Approval specification of EX-170 model was issued first |

2. Monitor Characteristics

| | | |
|------------------------------|---------------------------|---|
| Panel | Housing | Black powder coated Metal |
| | Monitor Size (Out) | 17inch : 411(w) x 348(h) x 60(d)mm |
| | Display Type | SXGA TFT |
| | Max. Resolution | 1280 x 1024 |
| | Display Colors | 16.7M Colors |
| | Pixel Pitch | 0.264 x 0.264mm |
| | Brightness | 300cd/m ² |
| | Contrast Ratio | 1000 : 1(Typical) |
| | Viewing Angle | 80°/80°(L/R) & 80°/80°(U/D) |
| | Display Area | 337.92 x 270.336mm |
| Input Signal | Supported Video | VGA (15Pin D-Sub) |
| Resolution Support | Supported | 640 x 350 @ 70 Hz 720 x 400 @ 70 HZ 640 X 480 @ 60Hz ~ 75Hz 832 x 624 @ 75Hz (MAC) 800 x 600 @ 56Hz ~ 75 Hz 1024 x 768 @ 60Hz ~ 75Hz 1280 x1024 @ 80Hz ~ 70Hz |
| | Recommended | 1024 x 1024@60Hz |
| Power Consumption | On working | <30 watt (Max.) |
| | Off | <3 watt |
| OSD Control | Function | Brightness, Contrast, Position(H/V Position), Clock(Clock, Phase, Use), Color (Color temperature, User Adjustment), Language, Information, OSD(OSD time, H/V position, Use), Auto Adjust |
| Language | | English, French, German, Italian, Spanish |
| Plug & Play | | DDC1/DDC2B |
| Power Saving | | VESA DPMS |
| Power Supply Adapter | Input | AC 100V~240V, 50~60Hz |
| | Output | DC 12V / 3.5A |
| Operating Temperature | | 0 ~ 50 °C |
| Storage Temperature | | -20 ~ 65 °C |
| Operating Humidity | | 10 ~ 95% (Non Condensing) |
| Weight(Net/Gross) | | 5.5 / 7.2kg |
| Standard Accessories | | 15-PIN VGA cable, AC adapter, Power cord |
| Options | Front Bezel | Aluminum |
| Touch Screen | | IR |

| | |
|------------------------|----------------------------|
| Touch Interface | IR– RS232 or USB |
| 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 | 3,648 x 2,752 |
| Response Time | Touch : 8ms |
| | Drawing : 13ms |
| Glass | Transmission : 92% Up to 100% |
| | Thickness : 3.2 mm with anti-vandal |
| Optics Number | 57(h) x 43(v) |
| Optics cell pitch | 5.35mm |
| Available Object Sizes for Touch | Touch : Ø7mm |
| | Stylus : Ø8mm |
| Touch Intensity | Over 60,000,000 single point touch |

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 |

5. Environment

| | |
|------------------------------|--|
| Temperature | Operating -20°C to 85°C |
| | Storage -40°C to 85°C |
| Humidity | Operating 20% to 85% |
| | Storage 0% to 95% |
| Relative Humidity | Operating 40°C at 90% RH, Noncondensing |
| Altitude Operating | 3,000m |
| Interface | RS232(C) or USB 1.1 |
| Detection Method | Infrared rays |
| Seal Ability | IP54 standard |
| Warranty | Touch screen : 3 -years limited warranty |
| | Controller : 3 -years limited warranty |
| Sunlight Working Test | Operating Under Halogen lamp(220V,500w)/Sunlight |

6. Touch Controller

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

6.2 Input Connector CN2 : Power Connector(Molex.5267-03, YEON-HO YMW023-03R)

| 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-05)

| 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.

7. Drawing : Please refer to Appendix1.

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

