

# SPECIFICATION

<b>ITEM</b>	INFRARED TOUCH SCREEN
<b>MODEL</b>	NIB
<b>PART NUMBER</b>	NIB-170B
<b>BUYER</b>	
<b>DATE</b>	MAR. 10, 2008

<b>APPROVED BY</b>

<b>NEXIO CORPORATION</b>	
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**1.Revision History**

Date	Rev. No	Page	Summary
MAR.10,2008	S-080310-001		Approval specification of NIB-170B model was issued first.

**2. Mechanical**

<b>Housing</b>	Black powder coated Metal
<b>Touch Size (Out line)</b>	415(w) x 334(h) x 10.3(d)mm
<b>Useful Screen Area</b>	333.9(h) x 270.3(v)
<b>Weight</b>	2.1Kg
<b>Drawing</b>	Please refer to Appendix 1

**3. Touch Characteristics**

<b>Input Method</b>	Finger or gloved hand activation
<b>Touch Activation Force</b>	No minimum touch activation force
<b>Position Accuracy</b>	Typical centroid accuracy 2mm
<b>Resolution</b>	4,096 x 3,328
<b>Response Time</b>	Touch : 11.7ms
	Drawing : 21ms
<b>Glass</b>	Transmission : 92% Up to 100%
	Thickness : 3.2 mm with anti-vandal
<b>Optics Number</b>	64(h) x 52(v)
<b>Optics cell pitch</b>	5.3mm
<b>Available Object Sizes for Touch</b>	Touch : Ø7mm
	Stylus : Ø8mm
<b>Touch Intensity</b>	Over 60,000,000 single point touch

**4. Electrical**

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

**5. Environment**

<b>Temperature</b>	Operating -20°C to 85°C
	Storage -40°C to 85°C
<b>Humidity</b>	Operating 20% to 85%
	Storage 0~95%
<b>Relative Humidity</b>	Operating 40°C at 90% RH, Noncondensing
<b>Light Test</b>	Operating Under Halogen lamp (220V,500W) / Sunlight
<b>Altitude Operating</b>	3,000m
<b>Interface</b>	RS232(C) or USB 1.1
<b>Detection Method</b>	Infrared rays
<b>Seal Ability</b>	IP54

<b>Warranty</b>	Touch screen : 5 -years limited warranty
	Controller : 5 -years limited warranty

## 6. 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	Input 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.

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.