

SPECIFICATION

ITEM	INFRARED TOUCH SCREEN
MODEL	NIB
PART NUMBER	NIB-170A
BUYER	
DATE	MAR. 10, 2008

APPROVED BY

NEXIO CORPORATION	
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1.Revision History

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

2. Mechanical

Housing	Black powder coated Metal
Touch Size (Out line)	425(w) x 334(h) x 10.3(d)mm
Useful Screen Area	333.9.0(h) x 270.3(v)
Weight	2.1Kg
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	4,096 x 3,328
Response Time	Touch : 11.7ms
	Drawing : 21ms
Glass	Transmission : 92% Up to 100%
	Thickness : 3.2 mm with anti-vandal
Optics Number	64(h) x 52(v)
Optics cell pitch	5.3mm
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
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
Light Test	Operating Under Halogen lamp (220V,500W) / Sunlight
Altitude Operating	3,000m
Interface	RS232(C) or USB 1.1
Detection Method	Infrared rays
Seal Ability	IP54

Warranty	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.