

SPECIFICATION

ITEM	INFRARED TOUCH SCREEN
MODEL	NIB
PART NUMBER	NIB-121B
BUYER	
DATE	MAR. 07, 2008

APPROVED BY

NEXIO CORPORATION	
DRAWN BY	H.J Kim
CHECKED BY	E.R Bae
APPROVED BY	K.S Kim



Nexio Co., Ltd.

5F, Seong-Woong B/D, 898-3, Jakjun-dong,
Gyeyang-gu, Incheon, Korea

Tel : +82 32 556 9545~7

Fax : +82 32 556 9544

CONTENTS

1. Revision History	-----	3
2. Mechanical	-----	4
3. Touch Characteristics	-----	4
4. Electrical	-----	4
5. Environment	-----	4,5
6. Controller	-----	5
7. Touch Panel Drawing	-----	Appendix1
8. Driver Manual	-----	Appendix2

1. Revision History

Date	Rev. No	Page	Summary
MAR.07,2008	S-080307-001		Approval specification of NIB-121B model was issued first

2. Mechanical

Housing	Black powder coated Metal
Touch Size (Out line)	309(w) x 247.5(h) x 10(d)mm
Useful Screen Area	240.8(h) x 176.6(v)
Weight	1.4Kg
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	2,944 x 2,176
Response Time	Touch : 6ms
	Drawing : 10ms
Glass	Transmission : 92% Up to 100%
	Thickness : 5 mm with anti-vandal
Optics Number	46(h) x 34(v)
Optics cell pitch	5.35mm
Available Object Sizes for Touch	Touch : Ø6mm
	Stylus : Ø7mm
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	Incandescent lamp (220V,60W) ,Operating distance 300mm over
Altitude Operating	3,000m
Interface	RS232(C) or USB 1.1
Detection Method	Infrared rays

Seal Ability	Can be sealed to meet NEMA4 and IP65 standard
Warranty	Touch screen : 5 -years limited warranty
	Controller : 5 -years limited warranty
Working place	Not working under sunlight, for Indoor used application

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	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.

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.