

SPECIFICATION

ITEM	INFRARED TOUCH SCREEN
MODEL	NIB
PART NUMBER	NIB-500B
BUYER	
DATE	MAR. 12, 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. AC Adapter	-----	6
8. Touch Panel Drawing	-----	Appendix1
9. Driver Manual	-----	Appendix2

1. Revision History

Date	Rev. No	Page	Summary
MAR.12,2008	S-080312-001		Approval specification of NIB-500B model was issued first

2. Mechanical

Housing	Black powder coated Metal
Touch Size (Out line)	1205(w) x 721(h) x 14.5(d)mm
Useful Screen Area	1100.1(h) x 615.6(v)
Weight	14Kg
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	12,416 x 6,976
Response Time	Touch : 11ms
	Drawing : 17ms
Glass	Transmission : 92% Up to 100%
	Thickness : 5 mm with anti-vandal
Optics Number	194(h)x109(v)
Optics cell pitch	5.7mm
Available Object	Touch : Ø7mm
Sizes for Touch	Stylus : Ø8mm
Operating depth	5mm from the surface of touch
Touch Intensity	Over 60,000,000 single point touch

4. Electrical

Operating Voltage	DC 12V(+/- 10%)
Power	7.5W(Current) 600mA at DC 12V
Connector between touch panel and controller	20pin 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	USB 1.1
Detection Method	Infrared rays
Seal Ability	IP54
Warranty	Touch screen : 3 -years limited warranty

Controller : 3 -years limited warranty

6. Controller

6.1 Output Connector CON1 : Power Connector(Molex.5267-02)

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

6.2 Interface Connector CON2 : Dsub-9Pin

Pin NO.	Symbol	Description
1	NC	No Connection
2	RX	Receive Data
3	TX	Transmit Data
4	NC	No Connection
5	GND	GND
6	NC	No Connection
7	NC	No Connection
8	NC	No Connection
9	NC	No Connection

6.3 Input, Output Connector CON3 : Power Connector(Molex.5267-03)

Pin NO.	Symbol	Description
1	Vin	Input, Output Voltage : 12V
2	NC	No Connection
3	GND	GND

6.4 Interface Connector CON4 : USB B type Female.


6.5 Interface Connector CON5 : (YEON-HO 12507WR-20) - 20pin Cable

6.6 Input Connector J1 : Power Connector(2.2 ϕ power jack)

Pin NO.	Symbol	Description
1	Vin	Input Voltage : 12V
2	GND	GND
3	GND	GND

6.7 Drawing : Please refer to Appendix2

7. AC Adapter : Model No. DA-42H12

AC INPUT	100-240Vac, 50-60Hz, 1.2A Max.
DC OUTPUT	DC12V/3.5A
OUTPUT CONNECTOR	2.5 ϕ
CONNECTOR POLARITY	

8. Touch Panel Drawing : Please refer to Appendix1.

9. Driver Manual : Please refer to Appendix2.

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