

SPECIFICATION

ITEM	Desktop Touch Monitor
MODEL	NIO
PART NUMBER	NIO-150
BUYER	
DATE	MAR. 25, 2008

APPROVED BY

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1. Revision History

Date	Rev. No	Page	Summary
MAR.25,2008	S-080325-001		Approval specification of NIO-150 model was issued first

2. Monitor Mechanical

Panel	Housing	Black powder coated Metal
	Monitor Size (Out line)	15inch : 361.4(w) x 339.9(h) x 56(d)mm
	Display Type	XGA TFT
	Max. Resolution	1024 x 768
	Display Colors	16M Colors
	Pixel Pitch	0.297 x 0.297mm
	Brightness	300 cd/m ²
	Contrast Ratio	450 : 1(Typical)
	Viewing Angle (typical)	65°/65°(L/R) & 50°/60°(U/D)
	Display Area	304.1 x 228.1mm
Input Signal	Supported Video Signal	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
	Recommended	1024 x 768@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,
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		4.5 / 6.2kg
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 : 10.4ms
	Drawing : 18.3ms
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 : Ø6mm
	Stylus : Ø7mm
Touch Intensity	Over 60,000,000 single point touch

4. Touch 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. Touch 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	Can be sealed to meet NEMA4 and IP65 standard
Warranty	Touch screen : 3 -years limited warranty
	Controller : 3 -years limited warranty
Working place	Not working under 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.