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## User's Guide

# NHD-TS-240128BRNA#

TOUCH PANEL

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RECORDS OF REVISION			DOC. FIRST ISSUE
VERSION	DATE	REVISED PAGE NO.	SUMMARY
0	2006-9-7		First issue
A	2006.09.15	5	Modify the contour drawing

## 1. General Specification

ITEM	STANDARD VALUE	UNIT
Outline dimension	128.0±0.3(L) x 74.0±0.3(W) x 1.5±0.15(T)	mm
View area	114.0(L) x 64.0(W)	mm
Active area	108.0(L) x 57.6(W)	mm

## 2. Absolute Maximum Ratings

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Operating Temperature	T <sub>OP</sub>	-10	—	+50	°C
Storage Temperature	T <sub>ST</sub>	-20	—	+70	°C
Operation Humidity Range		20		90	%RH
Storage Humidity Range		20		90	%RH
Light transmission			80		%

## 3. Reliability

### ■ Content of Reliability Test

Environmental Test			
Test Item	Content of Test	Test Condition	Applicable Standard
High Temperature storage	Endurance test applying the high storage temperature and operating test .	70°C 120hrs	—
Low Temperature storage	Endurance test applying the high storage temperature for a long time.	-20°C 120hrs	—

\*\*\*The test of above being finished, touch screen must satisfy the specification as below:

Resistance between leads :

- (1) Film : 570~920 Ohm , Glass: 220 ~ 330 Ohm
- (2) Linearity : Less than 1.5%
- (3) Insulation resistance: 10M Ohm or more.

## **4. Quality Standard**

### **(1) Hair Flaws :**

**$W \leq 0.05\text{mm}$  ,  $L \leq 12\text{ mm}$  ok**

**$0.05\text{mm} < W \leq 0.10\text{mm}$  ,  $L \leq 5\text{ mm}$  3 or less for OK**

**$W \leq 0.10\text{mm}$  ,  $L \leq 2\text{mm}$  NO good**

**(W: Width OF flaws, L: length of laws)**

### **(2) Dot – shaped Impurities :**

**$D \leq 0.10\text{mm}$  OK**

**$0.1\text{mm} < D \leq 0.3\text{mm}$  5 or less for OK**

**$D > 0.3\text{mm}$  No good**

**(D : average of diameter)**

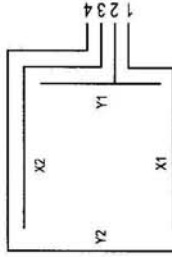
### **(3) Scratch:**

**$W \leq 0.05\text{mm}$  ,  $L \leq 12\text{ mm}$  ok**

**$0.05\text{mm} < W \leq 0.10\text{mm}$  ,  $L \leq 12\text{ mm}$  5 or less for OK**

**$W \leq 0.10\text{mm}$  ,  $L > 2\text{mm}$  NO good**

**(W: Width of Scratch, L: length of scratch)**



1. TOUCH PANEL PIN ASSIGNMENT

1	X1	Glass Terminal
2	Y1	Film Terminal
3	X2	Glass Terminal
4	Y2	Film Terminal

2. MATERIAL CHARACTERISTICS

Property	Requirement
Surface treatment	Clear
Bottom glass thickness	1.1mm
Light transmission	80%
Operation temperature	-10~50 °C
Storage temperature	-20~70 °C
Operating Humidity	20~90%RH
Storage Humidity	20~90%RH
Surface hardness	3H (Min.)

3. ELECTRICAL CHARACTERISTICS

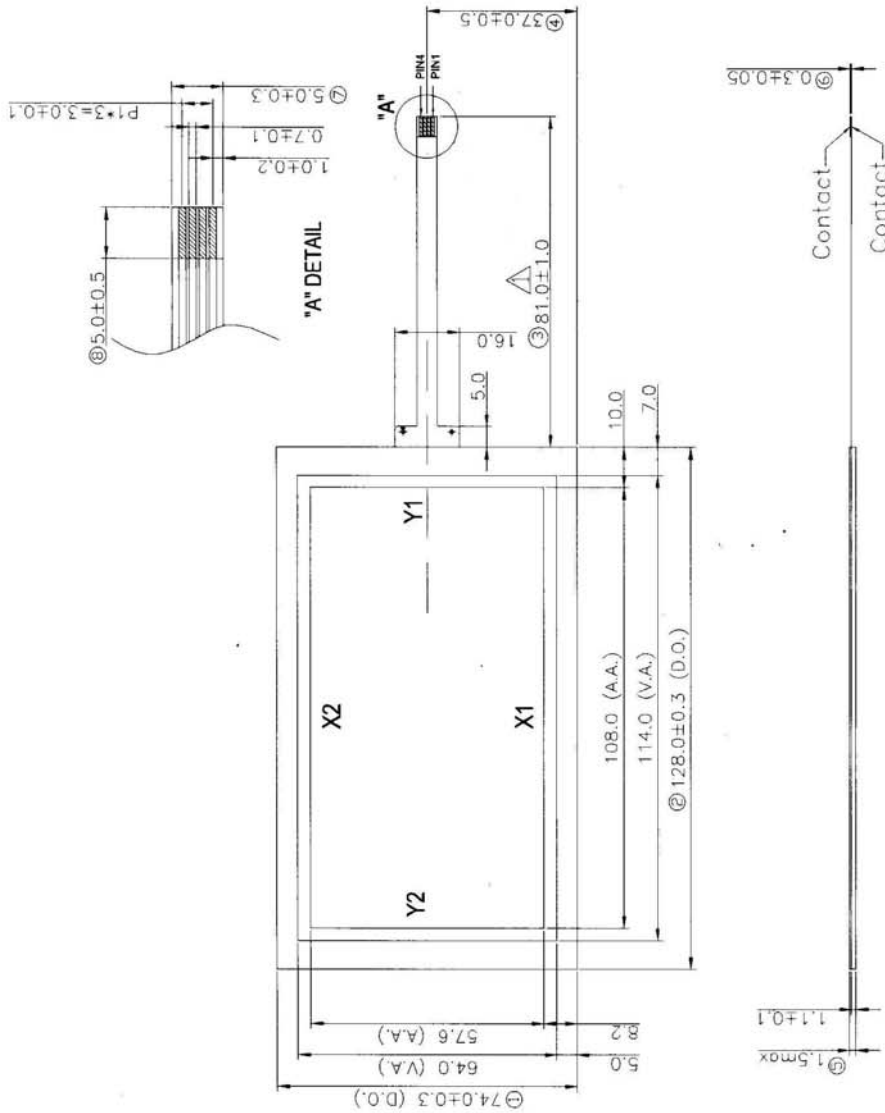
Property	Requirement
Type	Analog resistive 4 wire
Linearity	Max. 1.5%
X(1,3) resistance	220~330Ω
Y(2,4) resistance	570~920Ω
Insulation resistance	Min. 10MΩ (DC 25V)

4.A.A.:ACTIVE AREA

5.V.A.:VIEW AREA

6.D.O.:DIMENSIONAL OUTLINE

7.Tolerance no specified: ±0.5mm



## 5. Material List of Components for RoHs

1. Newhaven Display hereby declares that all of or part of products (with the mark “#”in code), including, but not limited to, the LCM, accessories or packages, manufactured and/or delivered to your company (including your subsidiaries and affiliated company) directly or indirectly by our company (including our subsidiaries or affiliated companies) do not intentionally contain any of the substances listed in all applicable EU directives and regulations, including the following substances.

Exhibit A : The Harmful Material List

Material	(Cd)	(Pb)	(Hg)	(Cr6+)	PBBs	PBDEs
Limited Value	100 ppm	1000 ppm	1000 ppm	1000 ppm	1000 ppm	1000 ppm
Above limited value is set up according to RoHS.						

2.Process for RoHS requirement :

(1) Use the Sn/Ag/Cu soldering surface ; the surface of Pb-free solder is rougher than we used before.

(2) Heat-resistance temp. :

Reflow : 250°C,30 seconds Max. ;

Connector soldering wave or hand soldering : 320°C, 10 seconds max.

(3) Temp. curve of reflow, max. Temp. : 235±5°C ;

Recommended customer’s soldering temp. of connector : 280°C, 3 seconds.

## **LCD Panel Estimate Feedback Sheet**

**Panel Item Number :** \_\_\_\_\_

### **1、Panel Specification :**

1. Panel Type :             Pass       NG , \_\_\_\_\_
2. View Direction :         Pass       NG , \_\_\_\_\_
3. Numbers of Dots(Icon) :  Pass       NG , \_\_\_\_\_
4. Operating Temperature :  Pass       NG , \_\_\_\_\_
5. Storage Temperature :    Pass       NG , \_\_\_\_\_
6. Others : \_\_\_\_\_

### **2、Mechanical Specification :**

1. Dots(Icon) Size :       Pass       NG , \_\_\_\_\_
2. VA Size :                 Pass       NG , \_\_\_\_\_
3. AA Size :                 Pass       NG , \_\_\_\_\_
4. Outline Dimension :  Pass       NG , \_\_\_\_\_
5. Others :                  Pass       NG , \_\_\_\_\_

### **3、Summary :**

**Sales signature :** \_\_\_\_\_

**Customer Signature :** \_\_\_\_\_

**Date :**    /    /    \_\_\_\_\_