Next Vision Display
Brighten The Future

# NEXT VISION DISPLAY

## SPECIFICATION

**CUSTOMER :** _____

**MODULE NO.:** NT070-R001ER

| | |
|---|---|
| Version | 1.0 |
| Engineer | |
| Date | March 29, 2013 |

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| Customer: |
|---|
| Approved by |

**NEXT VISION DISPLAY CO., LTD.**

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MARKETING: marketing@nextvisiondisplay.com
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# SPECIFICATION

1.1 Display Specification

| ITEM | STANDARD VALUE | UNIT |
|---|---|---|
| Display Format | 800（RGB）x 480 Dots | -- |
| Display Connector | FPC | -- |
| FPC Connector | 40 Pin,0.5mm Pitch, SMD Horizontal Type Top contact | -- |
| Operating Temperature | -20 ~ +70 | ℃ |
| Storage Temperature | -30 ~ +80 | ℃ |
| Touch Panel Optional | Yes | -- |
| Sunlight Readable | No | -- |

1.2 Mechanical Specification

| ITEM | STANDARD VALUE | UNIT |
|---|---|---|
| Diagonal Size | 7” | inch |
| Outline Dimension with FPC Folded | 164.9(W) x100.0(H) | mm |
| Active Area | 154.08(W) x 85.92(H) | mm |
| Pixel Size | 0.0642(W) x 0.1790(H) | mm |
| Gross Weight | 236.0 | g |

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1.3 Electrical Specification

| ITEM | STANDARD VALUE | UNIT |
|---|---|---|
| IC Package | COG | -- |
| Driver | OTA7001A_V03 | -- |
| Interface | RGB Interface | -- |
| Response Time (Typ) | 10 | ms |

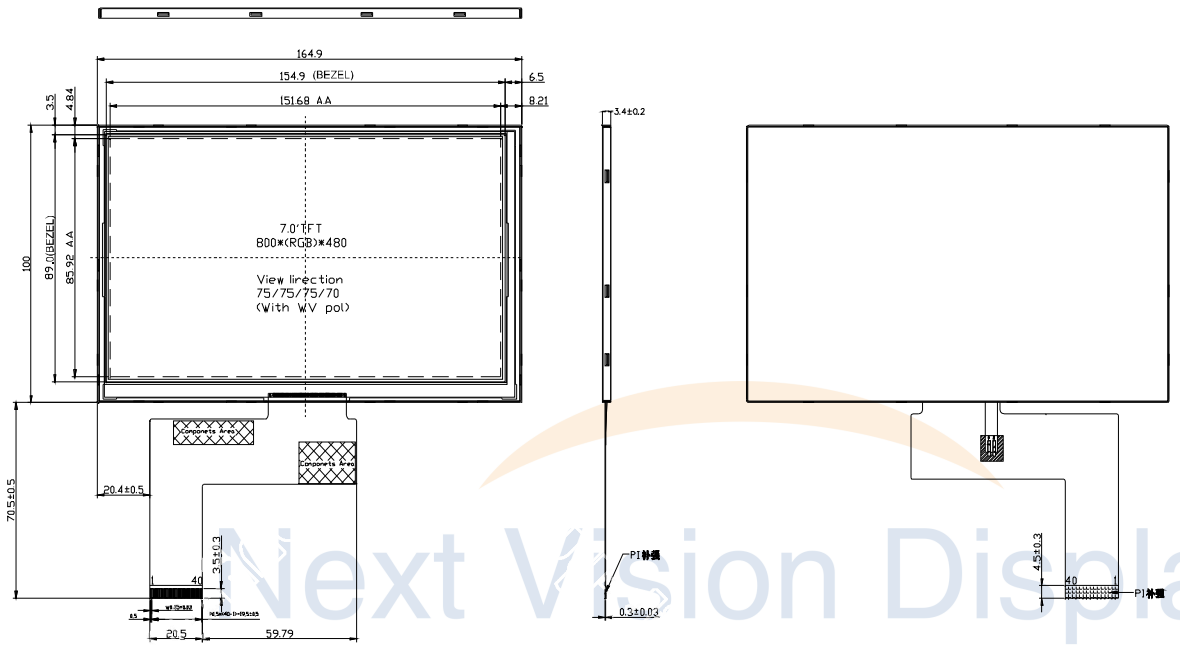
1.4 Optical Specification

| ITEM | STANDARD VALUE | UNIT |
|---|---|---|
| LCD Type | TFT-LCD / Transmissive / Positive | -- |
| Viewing Angle Range | Left:60, Right:60, Up:60, Down:60 | deg |
| Colors | 65K/262K/16.7M | -- |
| Contrast Ratio (Typ) | 500:1 | -- |
| Brightness (Typ) | 200 | cd/m2 |

# 1. PIN CONFIGURATION

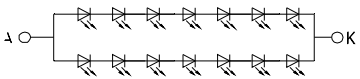
| Pin No | Pin Name | Descriptions |
|---|---|---|
| 1 | LEDK | LED Cathode |
| 2 | LEDA | LED Anode |
| 3 | GND | Ground |
| 4 | VDD | Power supply(Digital +3.0V) |
| 5-12 | R0~R7 | Red Data |
| 13-20 | G0~G7 | Green Data |
| 21-28 | B0~B7 | Blue Data |
| 29 | GND | Ground |
| 30 | CLK | Clock |
| 31 | DISP | Disp="on" when pin 31 is connected with high-level.<br>Disp="off" when pin 31 is connected with low-level. |
| 32 | HSYNC | Horizontal sync input in RGB mode. (Short to GND if not used) |
| 33 | VSYNC | Vertical sync input in RGB mode. (Short to GND if not used) |
| 34 | DEN | Data Enable |
| 35 | NC | NC |
| 36 | GND | Ground |
| 37 | NC | No Connection |
| 38 | NC | No Connection |
| 39 | NC | No Connection |
| 40 | NC | No Connection |

## 2 . OUTLINE DRAWING




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### 1. LED CIRCUIT DIAGRAM:




| | | | | | | |
|---|---|---|---|---|---|---|
| Next Vision Display<br>Brighten The Future | | | | | | |
| Unspecified Tolerance: | ±0.20 | UNITS: mm | DATE: | MODE NUMBER : | | SHEET: 1 Of 1 |
| DESIGN BY: | | J.H.M | 2012/10/09 | NT070-R001ER | | |
| CHECKED BY: | | | | | | DATE: |
| APPROVED BY: | | | | DO NOT SCALE THIS DRAWING. | PROJECTION | |