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# Product Specification

## 1.General Description

### 1-1 Over View

ID-2-H12A is a high performance TFT LCD monitor providing high quality image from the analog RGB, DVI-D input and high brightness LED Back Light of a 1,000 cd/m<sup>2</sup>.

### 1-2. Features

- High brightness(Max 1,000 cd/m<sup>2</sup>) and high contrast ratio
- Wide viewing angle, high speed response
- SVGA (800 X 3(R.G.B.) X 600pixels) resolution
- Low power consumption : 15.1Watt
- VESA DDC 1/2B plug & play operation
- RGB and DVI Input
- RoHS Compliance

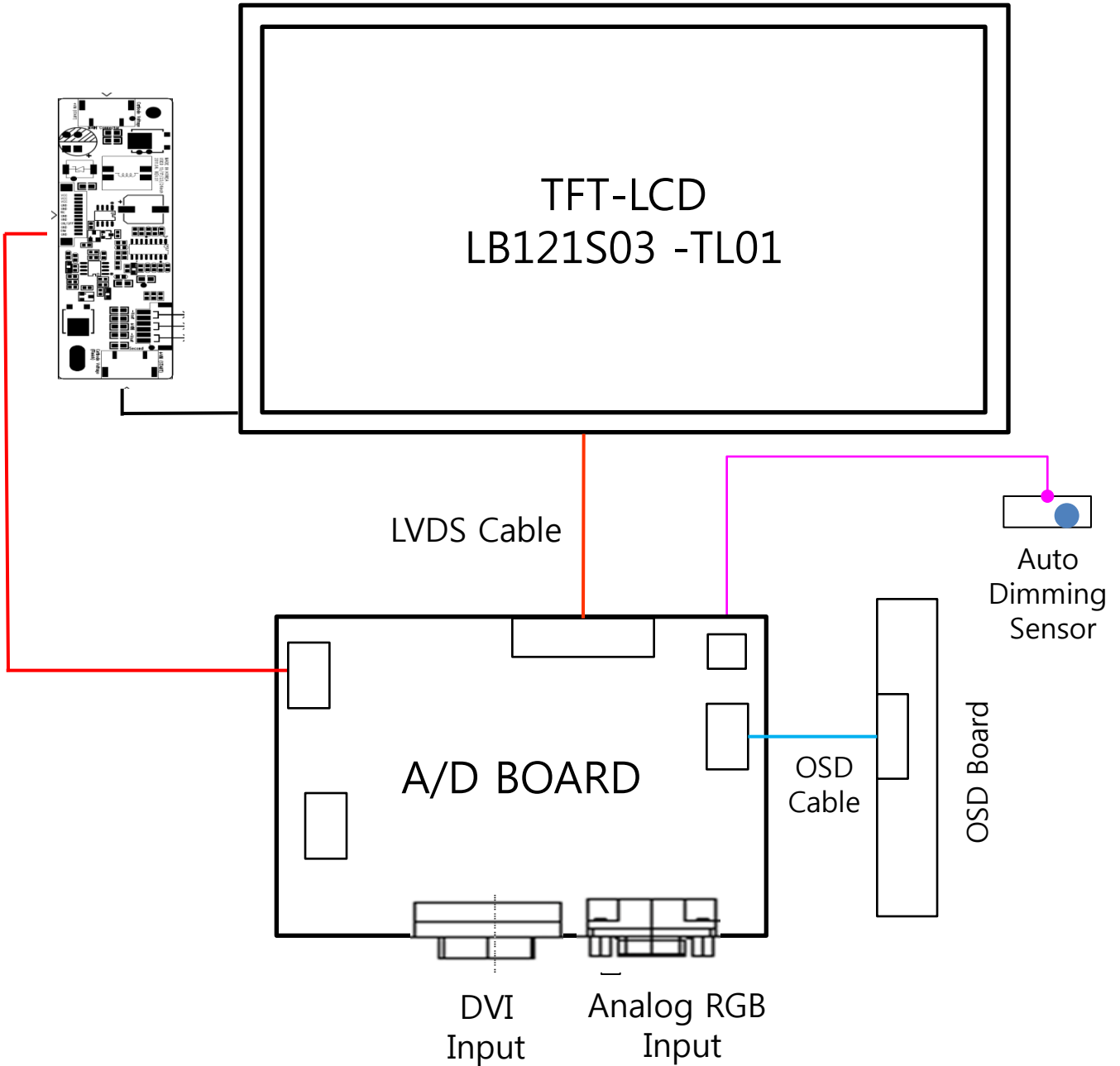
# Product Specification

## 1-3 General specifications

| Items        |                                  | Specification                                | Note                             |
|--------------|----------------------------------|--|----------------------------------|
| Display      | Active Area                      | 264(H) X 184.5 (V) (12.1" diagonal)          | based on AUO LB121S03-TL01       |
|              | Display Area                     | 0.3075(H) X 0.3075 (V)                       | IP55 to 65 on front side         |
|              | Brightness                       | 1,000cd/m2                                   | Center of screen                 |
|              | Contrast                         | 500 : 1                                      |                                  |
|              | Colors                           | 6-bit, 262,144 colors                        |                                  |
|              | Max. Resolution                  | 800 X 600 (60Hz)                             |                                  |
|              | Surface treatments               | Haze 44%, Hard-coating (3H)                  |                                  |
|              | View angle                       | L/R : 65°/ 65°(Typ.),<br>U/D : 50°/60°(Typ.) |                                  |
|              | Response time                    | Tr: 10msec, Tf: :20mse                       |                                  |
| Input Signal | Input Signal                     | Analog RGB<br>DVI-D                          |                                  |
|              | Horizontal                       | 30 to 80KHz                                  |                                  |
|              | Vertical                         | 50 to 75Hz                                   |                                  |
|              | Analog RGB                       | VGA,WVGA                                     | 640 X 480@60Hz<br>800 X 600@60Hz |
|              | DVI-D                            | VGA,WVGA                                     | 640 X 480@60Hz<br>800 X 600@60Hz |
| Power        | AC Input                         | 100V ~ 240VAC                                |                                  |
|              | DC Output                        | 12VDC 3.33A                                  |                                  |
| Environment  | Storage temperature              | Ta= -30°C, 300 hours<br>Ta = 80°C, 300 hours | °C                               |
|              | Operating temperature            | Ta= 0°C, 300 hours<br>Ta = 70°C, 300 hours   | °C                               |
|              | Operating Temperature & Humidity | 0 to +40°C, 10 to 90 %RH                     | %RH                              |
|              | Storage Temperature & Humidity   | -20 to +65°C, 10 to 90 %RH                   | %RH                              |
| IP Rated     | Front Side                       | IP 22 to IP 65                               |                                  |
| Dimension    | W*H*D                            | 315.4 x 240 x 51.7                           | mm                               |
| Weight       |                                  | 3.8  | Kg                               |

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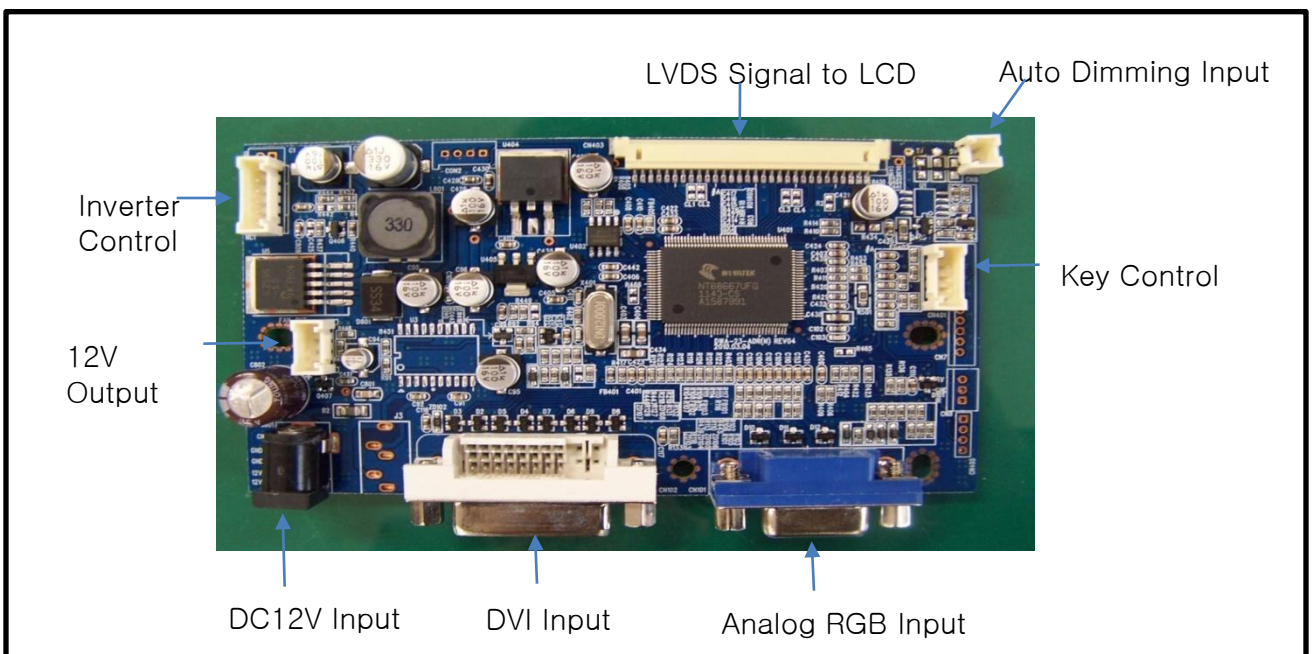
## 2. Block Diagram



# Product Specification

## 3. A/D Board(TDB-DW667)

| Input resolution      | Descriptions   |
|-----------------------|--|
| Input resolution      | Horizontal: 31KHz ~ 80KHz<br>Vertical: 55Hz ~ 75Hz<br>Active : VGA ~ WVGA                    |
| Input signal          | Analog RGB(separated H/V sync or C-sync)<br>DVI-D  |
| Supporting LCD module | TFT LCD with 1ch LVDS interface<br>VGA~WVGA<br>TFT LCD with LVDS interface                   |
| Jack/CONNECTOR        | DC power jack(12V ), Connector (12V )<br>D-SUB<br>DVI-D<br>RS-232C(Option) : RS232 Interface |
| User Control          | 5KEY<br>UART RS232(special function for remote control; It is designed to customer-request)  |
| Plug & Play           | DDC 2B   |



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## \* Support Timing Information

| MODE | Resolution   | Support Model | H Frequency (Khz) | Pixel Clock (Mhz) | REMARK |
|------|--------------|---------------|-------------------|-------------------|--------|
| VGA  | 640x480@60Hz | TDB-121-AD    | 31.5              | 25.1              |        |
| SVGA | 800x600@60Hz |               | 37.9              | 40.0              |        |

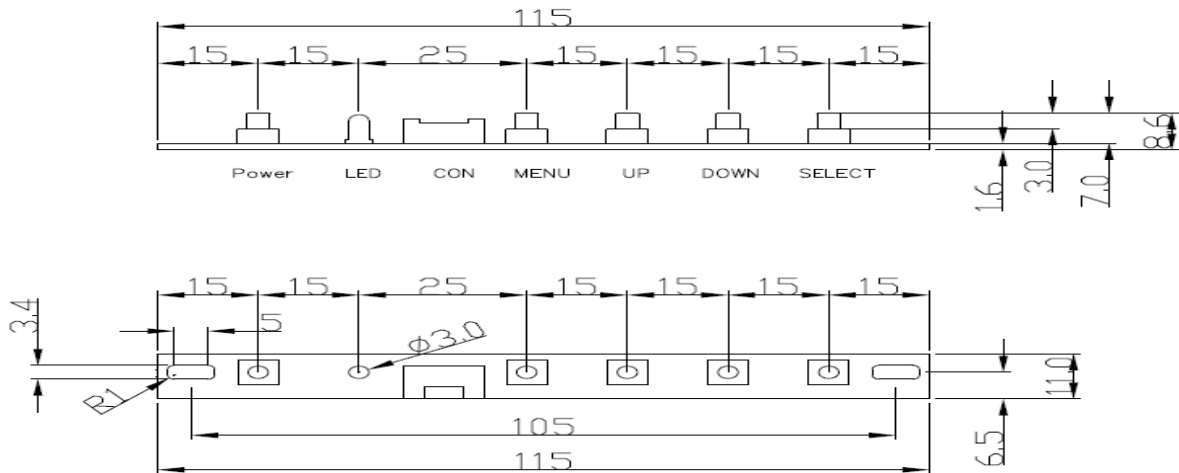
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## 4. OSD Key Function

### 4-1. Key Spec( 5KEY )



### 4-2. Key Dimensions



### 4-3. Key Events


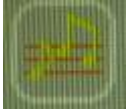
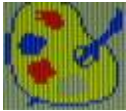

| KEY             | Description  |
|-----------------|--|
| Power           | Turn off/on the display unit.                          |
| Menu            | Access to the OSD system, Return to the previous state |
| UP              | Move the cursor to up, Decrease selected value         |
| Source/Down     | Move the cursor to down, Increase selected value       |
| Select/Auto ADJ | Choose the Sub Icon                                    |

### 4-4 Direct key

| KEY    | Description             | Remark         |
|--------|-------------------------|----------------|
| Select | Auto Adjust             | VGA (RGB) Only |
| Down   | Changed of Input Source | SOURCE CHANGE  |

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## 5. OSD Menu

| OSD Menu   |             | Description                                  |
|--|-------------|--|
| <br>Color         | Brightness  | Adjust the brightness of the screen          |
|  | Contrast    | Adjust the contrast of the screen            |
|  | Clock       | Adjust the clock of the screen               |
|  | Phase       | Adjust the phase of the screen               |
|  | H. Position | Adjust the horizontal position of the screen |
|  | V. Position | Adjust the vertical position of the screen   |
|  | Sharpness   | Adjust the color sharpness of the screen     |
| <br>Sound         | Volume      | No use                                       |
|  | Mute        | No use                                       |
|  |             |  |
|  |             |  |
| <br>Color Temp. | 9300        | Adjust the 9300K color temperature           |
|  | 7500        | Adjust the 7500K color temperature           |
|  | 6500        | Adjust the 6500K color temperature           |
|  | User        | Adjust User's color temperature              |
| <br>Language    | English     | Select one of the eight language             |
|  | French      |  |
|  | German      |  |
|  | Spanish     |  |
|  | Italian     |  |
|  | Japanese    |  |
|  | Chinese     |  |
|  | Korean      |  |



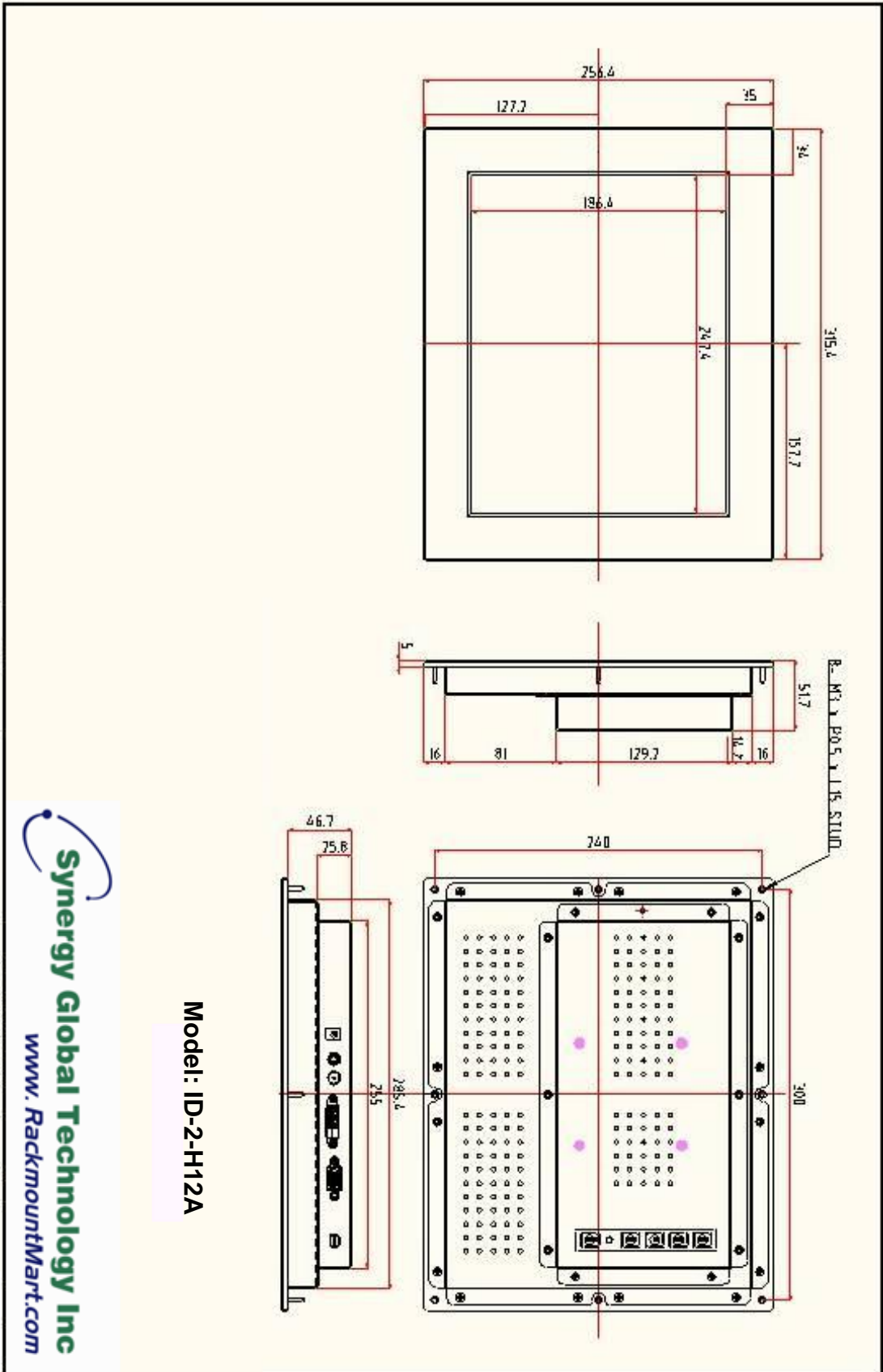
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## 5. OSD Menu

| OSD Menu   |                 | Description  |
|--|-----------------|--|
| <br>OSD Menu | OSD Time Out    | OSD Menu disappear from over the screen after setting time |
|  | OSD Position    | Select OSD Menu position                                   |
|  | OSD Transparen  | Adjust the color transparen of OSD Menu                    |
|  | Aspect Ratio    | Select wide or 4:3 aspect ratio                            |
|  | Recall          | Initialize the current mode & setting value                |
|  | Auto Adjust     | Adjust the position of the screen                          |
|  | Auto Color      | Adjust the color of the screen                             |
| <br>Input  | RGB             | Select RGB input   |
|  | DVI             | Select DVI input   |
|            | <b>Auto Dim</b> | <b>Select the use of auto dimming</b>                      |
|  | Fan             | Select the use of fan automatically                        |

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## 6. Outline Dimension



Model: ID-2-H12A