

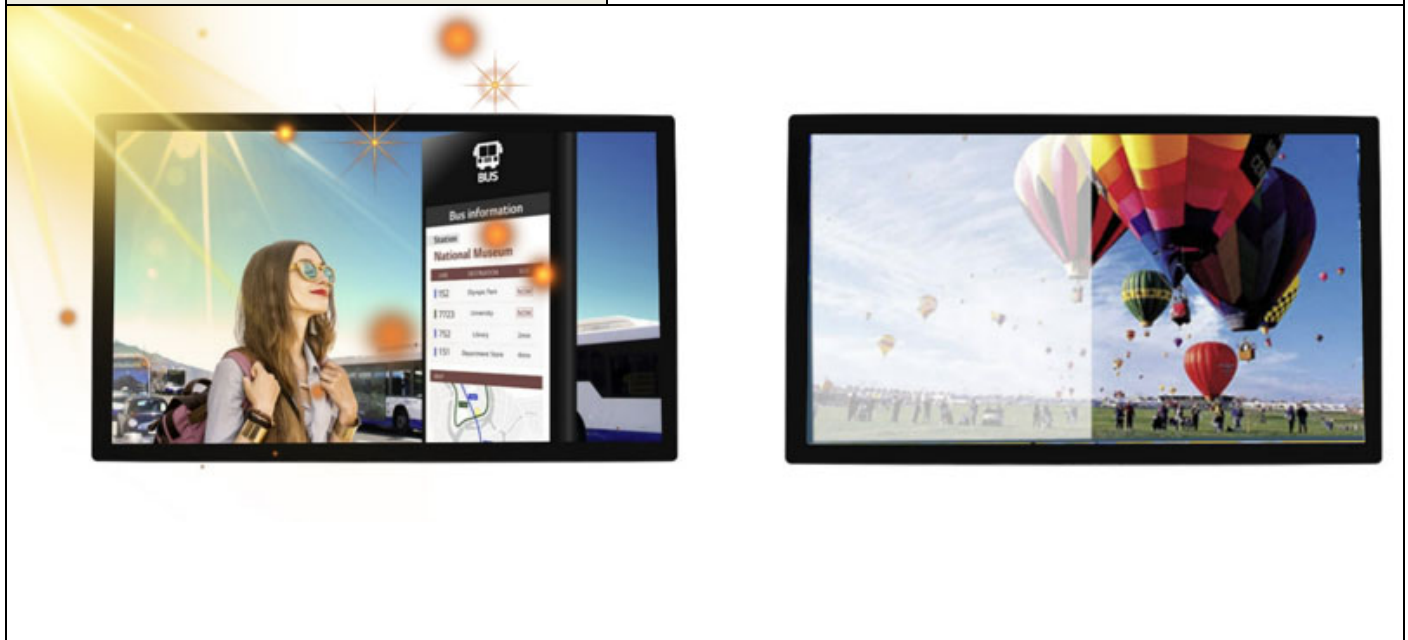


## SPECIFICATION

|                    |                         |
|--------------------|-------------------------|
|                    | High Bright LCD Monitor |
| MODEL              | TSVH                    |
| PRODUCT MODEL NAME | TSVH-1850               |
| CUSTOMER           |                         |
| DATE               | 2020-03-22              |

|  |  |
|--|--|
| APPROVED BY TOUCH AND DISPLAYS CO.,LTD |  |
| ENGINEER                               | Kyeong Min Lee   |
| REVIEWER                               | <br><small>Jung-Hyun Kim<br/>Managing Director</small> |
| CONFIRMED                              |   |



# MONITOR

## Key Feature

- **High Brightness 1500~2000nits**
- LED Backlight
- Sunlight Readable(Light sensor for Auto dimming)
- Wide Temperature (-30 °C ~80 °C)
- DC adapter ( 9V~36V(Optional)
- Low Power Consumption
- BL MTBF: 50,000 hour

| ITEMS        | SPECIFICATION                                       |  |
|--------------|---|--|
| LCD          | Size  | 18.5" TFT LCD, LED Back light            |
|              | Active Area(mm)                                     | 408.8mm(H) x230.04mm(V)                  |
|              | Resolution  | 1920X1080@60Hz                           |
|              | Contrast Ratio                                      | 1000:1(Typ)                              |
|              | Display Color                                       | 16.7K                                    |
|              | Response Time                                       | 5ms(Typ)                                 |
|              | <b>Brightness(cd/m2)</b>                            | <b>1500cd/m2</b>                         |
|              | Viewing Angle(L/R/U/D)                              | 89'/89'/89'/89'                          |
|              | Operating Temperature                               | -20'~70'C                                |
|              | Storage Temperature                                 | -30~80'C                                 |
|              | Panel Interface                                     | LVDS                                     |
|              | OSD key   | 5key(Menu/Down/Up/Enter/Power)           |
|              | Frame   | Open Frame VESA mount/Open mount Bracket |
|              | Signal Connector                                    | VGA,DVI, HDMI                            |
| Power source | DC12V in With External AC to<br>DC 9V~36V(Optional) |  |
| Audio        | Speaker   | 2x 3W(Optional)                          |
| IO Ports     | Video   | 1xDVI                                    |
|              |   | 1xVGA                                    |

**DQ : TDS200322-J01**

|                        |           |  |
|------------------------|-----------|--|
|                        |           | 1X DP (Optional)   |
|                        |           | 1XDVI-D, DVI-I(optional)   |
|                        | Audio     | Speaker(optional)  |
| Mechanical             | Enclosure | Metal  |
| Audio                  | Speaker   | Optional   |
| Touch Screen(optional) |           | Resistive Touch Screen   |
|                        |           | Touch Chip: EETI/Llitek/Weida  |
|                        |           | Touch Point: Multi touch(1~10points standard, 50 points option)                          |
|                        |           | Touch Supply Voltage: 5V   |
|                        |           | Touch Interface: USB   |
| Accessories            |           | 1x24v dc cable, 1x3m HDMI cable, 1x 3m USB cable<br>100~240V AC to DC Adapter Power Cord |
| Weight (Net)           |           | 5.0kg  |
| Surface Treatment      |           | AG/AR/AF(Optional)   |
| Water/Dust Protection  |           | IP65(front)/ IK08(front)   |

**Customer Request**

**Display Port:** Customization

**LCD Brightness(Dimming):** High Brightness / Sunlight Readable/Dimming : Auto,Knob,Manual

- Industrial monitor : 5% Dimming (Zero Dimming : please ask to Sales team)

- High-brightness monitor : 50% Dimming (5%, Zero Dimming : please ask to Sales team)

**Touch Screen :** PCAP touch screen/Resistive Touch Scree/ IR Touch Screen/SAW Touch Screen

**Glass :** Tempered Glass, AR/AG coating , Optical/Air Bonding

**Power:** DC voltage/AC voltage/Connector type

**Cable/Connector:** Length of Cable and connector type

**Mechanical Housing/ IP grade/ Easy Mounting Design**

**All in One PC CPU Option :** J1900 , J4125, J6412

i3-6100U ,i3-8145u,i3-10110u,

i5-6200u, i5-7200u,i5-8262u,i5-10210u,

i7-6500U,i7-7500U,i7-8565U,i7-10510U

**For RAM:** 4g/8g /16G RAM.

**For Hard Disk:** 64G/128G/256G/512G SSD, or 500G/1T HDD.

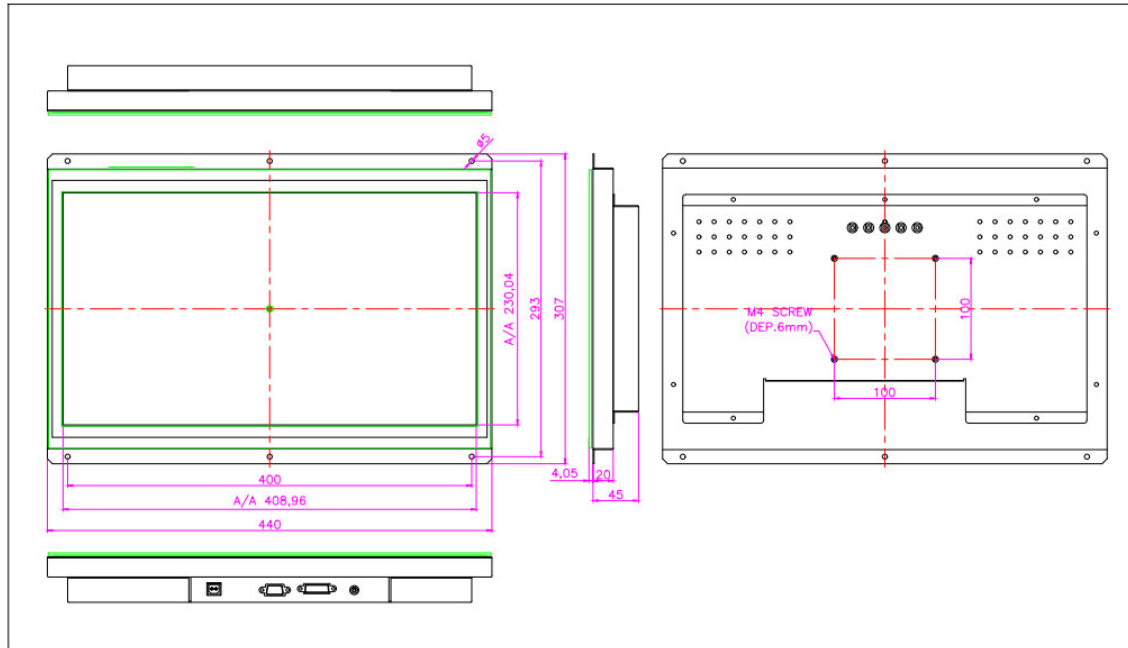
## PC-RGB Supported Model Table

This section lists some of the PC-RGB modes supported by this product, including their vertical frequency, horizontal frequency, and resolution.

PC-RGB Mode Table (This table is for the reference only, due to differences in signal source output, the data may vary from the table)

|        | Resolution | Horizontal frequency (KHz) | Vertical frequency (Hz) | Standard |
|--------|------------|----------------------------|-------------------------|----------|
| WUXGA  | 1920X1200  | 74.5                       | 60                      |          |
|        |            | 94.0                       | 75                      |          |
| UXGA   | 1600X1200  | 74.5                       | 60                      | VESA     |
|        |            | 94.0                       | 75                      |          |
| WSXGA+ | 1680X1050  | 65.2                       | 60                      |          |
|        |            | 82.2                       | 75                      |          |
| WXGA+  | 1440X900   | 55.9                       | 60                      | ---      |
|        |            | 70.5                       | 75                      |          |
| WXGA   | 1280X800   | 49.7                       | 60                      | ---      |
|        |            | 62.6                       | 75                      |          |
| SXGA+  | 1400X1050  | 65.2                       | 60                      | ---      |
|        |            | 82.2                       | 75                      |          |
| SXGA   | 1280X1024  | 63.6                       | 60                      | VESA     |
|        |            | 80.2                       | 75                      |          |
| XGA    | 1024X768   | 47.7                       | 60                      | VESA     |
|        |            | 56.0                       | 70                      |          |
|        |            | 60.1                       | 75                      |          |
| SVGA   | 800X600    | 37.3                       | 60                      | VESA     |
|        |            | 43.8                       | 70                      |          |
|        |            | 47.3                       | 75                      |          |
| VGA    | 640X480    | 29.8                       | 60                      | VESA     |
|        |            | 35.0                       | 70                      |          |
|        |            | 37.7                       | 75                      |          |
| DOS    | 640X480    | 29.8                       | 60                      | VESA     |
|        | 720X400    | 29.2                       | 70                      |          |

## MECHANICAL DRAWING



### NOTE

1. This is a simplified drawing, and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O , please contact our Team(TDS) for more information.