

## Product Features

- 32" Display with UHD 4K (3840 x 2160) native resolution
- Dimmable 0-100% with backlight light sensing
- Thin and Compact Design with impact resistant screen
- Panel Mount design with front side removable handle
- AR protection Glass or Projected Capacitive Touch Screen
- Fanless and Ventless design, Easy to clean



Option 1  
With AR Protection Glass, No Touch function



Option 2  
With Projected Capacitive Multi Touch

## Product Specifications

|                                              |                                                                                                                                                       |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TFT Technology</b>                        | LED Backlight Technology, TFT Active-matrix, Widescreen, IPS Technology                                                                               |
| <b>Viewable Size</b>                         | 32" diagonal                                                                                                                                          |
| <b>Active Area</b>                           | 708.48"(H) x 398.52"(V) mm                                                                                                                            |
| <b>Native Resolution</b>                     | 3840 x 2160 (UHD 4K)                                                                                                                                  |
| <b>Pixel Pitch</b>                           | 0.181 (H) x 0.181(V)mm                                                                                                                                |
| <b>Aspect Ratio</b>                          | 16:9                                                                                                                                                  |
| <b>Response Time</b>                         | 12ms (Gray to Gray)                                                                                                                                   |
| <b>Light Intensity</b>                       | 350 cd/m2 (typ),<br>Optional for high brightness 700cd/m2 (typ)                                                                                       |
| <b>Contrast Ratio</b>                        | 1000:1 (typ)                                                                                                                                          |
| <b>View Angle</b>                            | 89/89/89/89                                                                                                                                           |
| <b>Max Colors</b>                            | 1.07B                                                                                                                                                 |
| <b>Synchronization Signal Auto-detect</b>    | Digital Separate Sync., Composite Sync., Sync. On Green                                                                                               |
| <b>Synchronization Range</b>                 | 31.5 kHz to 60.0 kHz (H) - 30 Hz to 75 Hz (V)                                                                                                         |
| <b>Optimal Resolution and Hz</b>             | 3840 x 2160 @ 60 Hz 4:4:4                                                                                                                             |
| <b>Detectable Resolutions (Partial List)</b> | 640 x 480, 720 x 400, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200, 1920 x 1080, 1920 x 1200, 2560 x 1440, 3840 x 2160, 4096 x 2160                |
| <b>Power Specifications</b>                  | AC 110~240V (Default)<br>DC 24V (Optional)<br>MIL-DTL-38999/1 Connector<br>Power Consumption 60W typical, normal operation                            |
| <b>User Controls and Activity</b>            | Option 1 : Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/Night Mode, Key Pad Control<br>Option 2 : Power ON/OFF, Menu Brightness Control |

|                              |                                                                                                                                                                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Input Signal</b>          | <ul style="list-style-type: none"> <li>• DVI</li> <li>• HDMI 1.4</li> <li>• HDMI 2.0</li> <li>• Display Port 1.2</li> <li>• VGA</li> <li>• Audio Line In</li> <li>• RS232 for Optional Remote Control</li> <li>• USB for Optional Touch</li> </ul> |
| <b>Product Dimensions</b>    | 825 x 486 x 88.5 mm                                                                                                                                                                                                                                |
| <b>Cutout Dimension</b>      | 769.5 x 468 mm                                                                                                                                                                                                                                     |
| <b>Mounting</b>              | VESA mounting 100 x 100 mm<br>VESA mounting 200 x 100 mm<br>VESA mounting 300 x 100 mm                                                                                                                                                             |
| <b>Product Weight</b>        | 11 Kg                                                                                                                                                                                                                                              |
| <b>Touch</b>                 | Option 1 : AR Protection Glass (W32L100-MLA1FG-4K)<br>Option 2 : Projected Capacitive touch (W32L100-MLA1FP-4K)                                                                                                                                    |
| <b>Operating Temperature</b> | 0 deg.C to 50 deg.C, Humidity up to 95%                                                                                                                                                                                                            |
| <b>Storage Temperature</b>   | -10 deg.C to 60 deg.C, Humidity up to 95%                                                                                                                                                                                                          |
| <b>Order Information</b>     | W32L100-MLA1FP-4K<br>(with Projected Capacitive Multi Touch)<br>W32L100-MLA1FG-4K<br>(with AR Protection Glass, No Touch function)                                                                                                                 |
| <b>Certificates</b>          | CE, FCC                                                                                                                                                                                                                                            |
| <b>Compliance</b>            | MIL-STD-810F/G<br>MIL-STD-461F/G (RE101/RE102), (CE101/CE102)                                                                                                                                                                                      |

## Military Grade EMC Compliance

| EMC (MIL-STD 461E/F Compliance) |                     |                 |                                                |
|---------------------------------|---------------------|-----------------|------------------------------------------------|
| EMC Test Spec                   | Type of Test        | Frequency Range | Requirement                                    |
| CE101                           | Conducted Emissions | 30Hz ~10kHz     | 30Hz ~ 1kHz :110 dB 1k-10k:110-90 dB           |
| CE102                           | Conducted Emissions | 30Hz ~10kHz     | 10kHz ~ 500KHz: 100-66dB,<br>500KHz~10MHz:66dB |
| RE101                           | Radiated Emissions  | 30Hz ~100kHz    | (30~100k :180-110 dBpT)                        |
| RE102                           | Radiated Emissions  | 10kHz ~18GHz    | (2MHz~18G Hz: 44-89 dB)                        |

## Military Grade Environmental Compliance

| Environmentals (MIL-STD 810F/G Compliance) |                                                                   |                                        |
|--------------------------------------------|-------------------------------------------------------------------|----------------------------------------|
| Low Pressure                               | Operating                                                         | 15,000 ft, Method 500.5 / Procedure II |
|                                            | Storage                                                           | 15,000 ft, Method 500.5 / Procedure I  |
| Salt Fog                                   | Method 509.5                                                      |                                        |
| Vibration                                  | 5 ~ 500 Hz, 1.48 & 1.90 & 2.24 Grms<br>Method 514.6 / Procedure I |                                        |
| Transit Drop                               | Method 516.6 / Procedure IV                                       |                                        |
| Shock                                      | Method 516.6 / Procedure I                                        |                                        |

## Mechanical Drawing

