

TDD-OFTD-OB550H

55" **Open Frame** High Brightness **Optical Bonding** Displays



Overview

Designed especially for outdoor application, the **TDD High Brightness TFT Displays** include **10.1 to 86 inch, Open Frame, Optical Bonding, Solar Powered, Bar Type, Full Array Local Dimming, Ultra & Custom High Brightness Displays** types, ensuring excellent visibility in direct sunlight. Custom backlight solution & advanced brightness sensor allow for automatic adjustments based on ambient light, optimizing readability and energy efficiency, ensuring the clear visibility at all times and extending the lifespan of the displays – making it the ideal solution for the bright environments.

Features(with Durable Metal Case for Accessories)

- 1000 up to 5000 nits, Sunlight Readable, Wide Operating Temperature
- 24/7 IPS Panel with Industrial Grade LED Backlights (analog / PWM Dimming Control)
- Available in Kits Form, Open Frame, Waterproof Optical Bonding Tempered Glass and Fully Custom Design

Specifications

Panel

| | |
|-----------------------|---|
| LCD Type | TFT / IPS / Transmissive / Normally Black |
| Diagonal Size | 55"(16:9), 139.7cm, Active matrix TFT LCD (WLED) |
| Active Area (mm) | 1209.6 mm x 680.4 mm |
| Pixel Pitch (H x V) | 0.315 x 0.315 mm |
| Resolution | 1920 x 1080 |
| Viewing Angle | Horizontal: 89° or 178° total / Vertical: 89° or 178° (Typ.)(CR≥10) |
| Number of Colors | 16.7 million |
| Brightness (typical) | 2000 nits |
| Response Time-total | 8 (Typ.)(Tr+Td) ms |
| Contrast Ratio | 1200:1 |
| Input Video Frequency | Horizontal: 30 - 60 KHz / Vertical: 50 - 75 Hz |
| Interface | LVDS 51 pins |
| Supply Voltage | 12V (Typ.) |

Tempered Glass **3mm, Ultra Clear, Anti-mist Optical Bonding PCAP Touch Panel: Optional**

LCD Controller (A/D) Board

| | |
|-----------------------|---|
| Video Interfaces | Default: 1*VGA, 1*HDMI for 1K, 2*HDMI for 4K; Optional: DVI x1, Display Port x1 |
| Connectors & Controls | Audio Mini jack x1 / DC x1; 5 OSD buttons(optional) |
| Power | Supply / Consumption: 100-240 VAC / 24VDC +/- 5%; 240W typical, 1.2W sleep, 0.5W off |
| Mechanical | Outline Dimensions(WxHxD): 1247.8x716.8x58.5mm/Weight(Unpacked/Packed): 27.5/N/A kg Box Dimensions: N/A / Mounting: Open Frame Form, Waterproof (Front) Optical Bonding |

Environmental Operating / Storage Temperature: -10°C to 50°C / -20°C to 60°C

Accessories LCD controller & constant current boards, power supply, **ambient light sensor** & panel cable

Others MTBF/Warranty/Metal Case/Ready for Use: 50,000 hours demonstrated /1-year / silver / 24/7

* TDD (www.tddtouch.com, sales@tddtouch.com) reserves the right to change specifications without prior notice.