

## TDD-CP-HTD50

### 5" HDMI TFT Displays



#### Overview

TDD's HDMI TFT Displays simplify the integration of displays into project designs by using standard HDMI connections. Available in 1.44", 2.4", 2.8", 3.5", 4.3", 5", 7", 8" and 10.1" sizes, these modules feature MVA technology, with options for capacitive, resistive, or no touch panels. The non-touch panel version connects with just two wires - DC power and HDMI. The touch panel version needs one extra USB connection to enable touch features via USB-HID. With 500 nits to 1000 nits high-brightness IPS display & wide operating temperatures, making it the idea solution for various applications.

#### Features

- 500 - 1000 nits, Sunlight Readable (**optional**), Wide Operating Temperature
- 24/7 IPS Panel with Industrial Grade LED Backlights
- Available in Kits Form, air bonding or optical bonding with PCAP Touch (**optional**)

#### Specifications

##### Panel

LCD Type	TFT / <b>IPS</b> / Transmissive / Normally Black
Diagonal Size	5"(4:3), 12.7cm, Active matrix TFT LCD (WLED)
Active Area (mm)	108 mm x 64.8 mm
Pixel Pitch (H x V)	0.159 x 0.159 mm
Resolution	800 x 480
Viewing Angle	Horizontal: 80° or 160° total / Vertical: 80° or 160° (Typ.)(CR≥10)
Number of Colors	16.7 million
Brightness (typical)	<b>500 nits</b>
Response Time-total	30 (Typ.)(Tr+Td) ms
Contrast Ratio	1200:1
Input Video Frequency	Horizontal: 30 - 60 KHz / Vertical: 50 - 75 Hz
Interface	LVDS 40 pins
Supply Voltage	3.3V (Typ.)

##### PCAP Touch Panel **Optional**

##### LCD Controller (A/D) Board

Video Interfaces	<b>Default:</b> <7": 1*HDMI, >=7": 1*VGA, 1*HDMI; <b>Optional:</b> DVI x1, Display Port x1
Connectors & Controls	Audio Mini jack x1 / DC x1; 5 OSD buttons( <b>optional</b> )
Power	Supply / Consumption: 100-240 VAC / 12VDC +/- 5%; 5W typical, 1.2W sleep, 0.5W off
<b>Mechanical</b>	Outline Dimensions(WxHxD): 120.7x75.9x3.05mm/Weight (Unpacked/Packed): 0.4/N/A kg Box Dimensions: N/A / Mounting: Kits Form
<b>Environmental</b>	Operating / Storage Temperature: <b>-20°C to 70°C</b> / -30°C to 80°C
<b>Accessories</b>	LCD controller board kits, power supply & panel cable

##### Others

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

\* TDD ([www.tddtouch.com](http://www.tddtouch.com), [sales@tddtouch.com](mailto:sales@tddtouch.com)) reserves the right to change specifications without prior notice.