



Sunlight Readable Oled 4 Inch 1080*1240 High Resolution For Outdoor Electronic Device

Our Product Introduction

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Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: CE、RoHS、FCC
- Model Number: CH400OL001A
- Minimum Order Quantity: NO MOQ
- Packaging Details: All The Products Are Packed In Right Way To Keep It Safe. For Small Sizes Of Products We Use Tray + Carton, For Bigger Sizes We Use Foam Slot + Carton. We Also Design Packages According To Customers' Requirements
- Delivery Time: 3~5 Working Days
- Payment Terms: TT Or Others
- Supply Ability: 300K Pcs/month



Product Specification

- OLED Interface: MIPI
- Operating Temperature: -10 ~ +60
- Active Area Size: 65.448*75.144 Mm
- FPC Pin Numbers: 38
- Storage Temperature: -20 ~ +70
- Viewing Direction: Free
- Screen Size: 3.92 Inch
- Display Type: 3.92" AMOLED
- Highlight: Sunlight readable OLED display, 4 inch high resolution OLED, Outdoor electronic device OLED module



More Images





Product Description

Product Description:

The CH400OL001A is a 4-inch AMOLED display module (3.92-inch effective area) designed for superior visual performance in outdoor electronic devices. Featuring a native 1080x1240 high resolution, this module ensures sharp and clear visualizations of complex data and high-definition graphical interfaces in professional environments. Employing active-matrix OLED technology, the display achieves exceptional contrast and 600 cd/m² brightness, making it an attractive "sunlight-visible OLED" solution for semi-outdoor and high ambient light applications.



The self-emissive nature of AMOLED pixels ensures deep blacks and vibrant colors, eliminating the need for a bulky backlight module and achieving an ultra-thin 1.2mm form factor, ideal for compact hardware integration. For seamless interaction, the module integrates an FT*** capacitive touch IC, providing a responsive and durable user interface for handheld instruments. Data transmission is processed via a high-speed MIPI interface, optimizing power efficiency, crucial for battery-powered portable devices. With its full-viewing angle and RoHS compliance, the CH400OL001A is the top choice for engineers seeking a space-saving display solution that does not sacrifice optical clarity or reliability under harsh conditions.

Features:

- (1)**High-Resolution Clarity:** The **1080x1240 resolution** provides a high-PPI viewing experience, crucial for reading fine text and detailed technical charts in outdoor settings.
- (2)**Sunlight-Enhanced Performance:** With a brightness of **600 nits** and AMOLED's inherent high contrast, this module maintains readability under challenging lighting conditions.
- (3)**MIPI High-Speed Interface:** Features a **MIPI 4-lane** connection to ensure low-latency video streaming and reduced electromagnetic interference (EMI) for portable devices.
- (4)**Slim & Compact Design:** At a **maximum thickness of 1.2mm**, it significantly reduces the overall footprint of handheld equipment.

Technical Parameters:

Display Type	3.92" AMOLED
Resolution	1080*1240 Dots
Viewing Direction	Free
Module Size	67*80*0.7 Mm
OLED Interface	MIPI
Operating Temperature	-10 ~ +60
FPC Pin numbers	38
Screen Brightness	600 Cd/m2
Storage Temperature	-20 ~ +70
Screen Size	3.92 Inch

