

ENH064VD1-500 6.4" VGA AMLCD Display

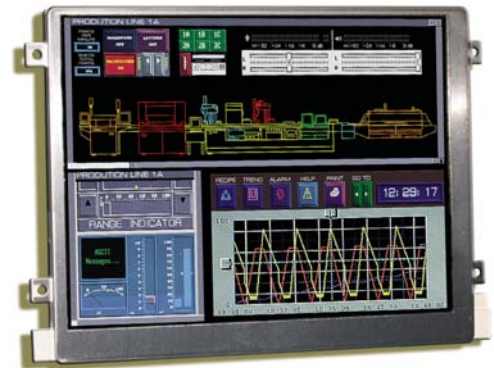
Enhanced Brightness for Outdoor Viewability

Overview

The ENH064VD1-500 color TFT LCD provides improved optical performance based on enhancement of a standard Sharp LQ064V3DG01 color active matrix LCD module. The incorporation of high efficiency optical films provides an increase of approximately 50% over the typical luminance of the stock display. The ENH064VD1-500 is available in two surface treatments – IM/Clear (glossy) or IM/110 (a 10% diffusion).

The enhanced module is composed of a color TFT LCD panel, driver ICs, control circuit and power supply circuit and a backlight unit. Graphics and text can be displayed on a 640 x 480 pixel panel with 262,144 colors by supplying 18-bit data signals (6-bits/color), four timing signals, +3.3V / +5V DC supply voltage for the TFT panel and supply voltage for the backlight. The TFT LCD panel used for this module is a low-reflection and high color saturation type. Viewing angle is 6 o'clock direction. The module offers a wide viewing angle and high brightness (500 cd/m² typical). The backlight-driving DC/AC inverter is not built into this module.

WEDC's ENH064VD1-500 meets the environmental specifications of the stock Sharp LQ064V3DG01. WEDC provides a full one year warranty to the enhanced performance product.



Performance Features

- VGA 640(H) x 480(V) Resolution
- 500 nit typical Luminance
- TTL Interface
- High Contrast Ratio/High Aperture Ratio
- Higher Brightness per Watt

Applications

- Industrial Automation
- Kiosk Systems
- Marine Navigation
- Instrumentation

Surface Treatments

- 500 nit – Diffuse front surface, IM/110
- 500 nit – Glossy front surface, IM/Clear

Display Characteristics

Display Format:	640 Pixels (H) x 480 Pixels (V)
Active Viewing Area:	130.56mm (H) x 97.92mm (V)
Pixel Configuration:	RGB Vertical Stripe
Pixel Pitch:	0.204mm (H) x 0.204mm (V)
Display Mode:	Normally White

Viewing Angle

Typical:	70/70/40/70	CR>5
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Luminance

Typical:	500 cd/m ²
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Response Time

Typical:	Rise 30ms / Fall 50ms
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Operating Temperature

T _{OPP}	-30 °C to +80 °C (Panel Surface)
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Storage Temperature

T _{stg}	-30°C to +80°C
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