

ACD-AU238-3141

PRODUCT DATA SHEET

23.8" FULL HD LED BACKLIT TFT DISPLAY

Sunlight Readability/Very Wide Range Dimming

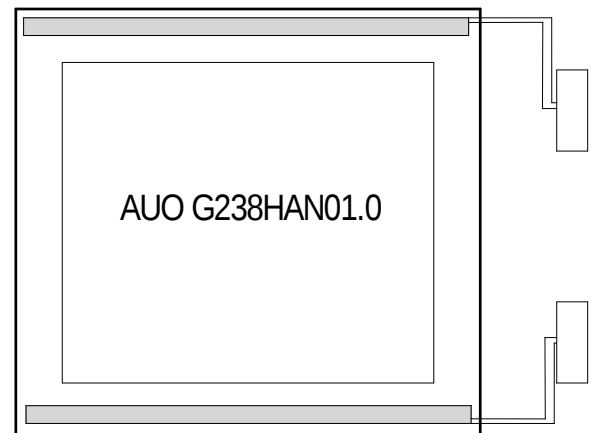
GENERAL DESCRIPTION

The ACD-AU238-3141 consists of the AUO G238HAN01.0 23.8" Full HD TFT display, modified with a high performance LED backlight.

Performance at given luminance levels

900 cd/m² with 64.8 watts LED power

3/22/2022



LED BACKLIGHT FEATURES

White LED edge-light rails

Two wire connection (Typically 16.5 inches long) allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

Designed to be driven by constant current backlight driver¹

¹ For best power transfer and control, use 2 ACI-E080500-3181 ID5 LED Drivers.

LCD PANEL HIGHLIGHTS

23.8" TFT Active Matrix Color

527.04mm(H) x 296.46mm(V) viewable area

533.20mm(W) x 312.00mm(H) x 10.50mm(D) physical size

Full HD 1920 x 1080 pixels, 16.7M colors

1000:1 typical contrast ratio

Display Mode, Normally Black

For complete LCD specification (standard panel), refer to the datasheet AUO G238HAN01.0

MAXIMUM RATINGS*

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Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	0 to +50	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg ¹	Display storage temperature	-20 to +60	Deg-C
IfwdD	LED forward current	100	mA

*Maximum Ratings are those values beyond which damage may occur

¹Per Manufacturer's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 83.3mA per bank, 6 banks per rail, 2 rails per display, LED rails: ACR-0706-3142, Ta = +25 Deg-C moving air (36 CFM), LCD displaying full-white image, minimum 2 hour soak.

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bpd	Panel Luminance		720	900		cd/m ²
Xd	White X coordinate			0.304		-
Yd	White Y coordinate			0.363		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

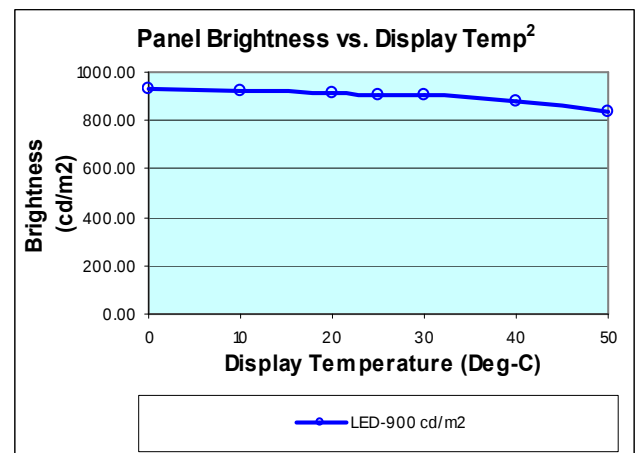
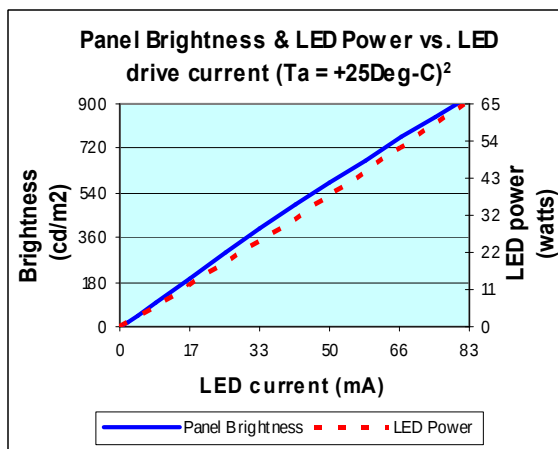
Ifwd = 83.3mA, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		63.5	70.5	77.5	Vdc

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TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

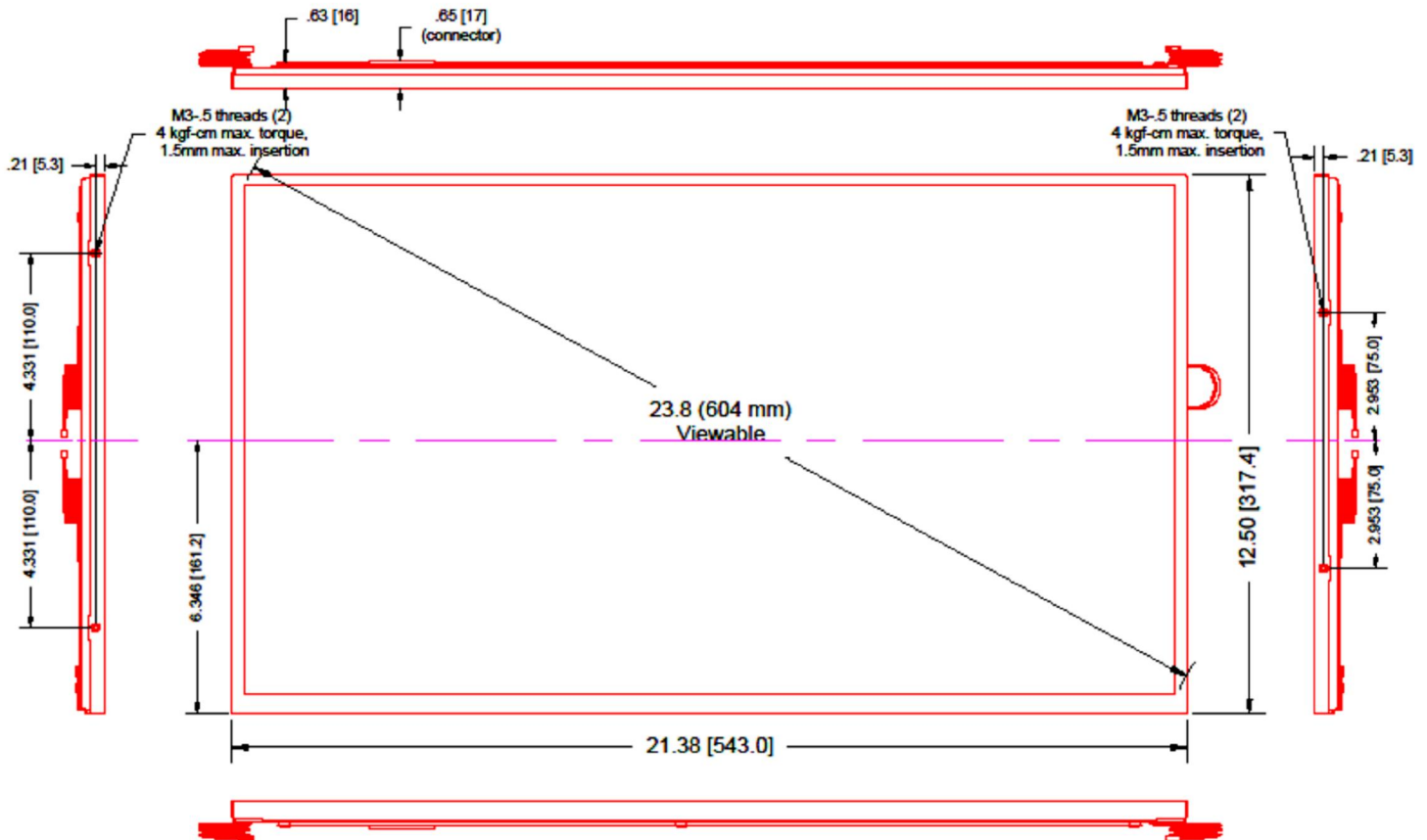
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² Moving air (36.0 CFM)

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MECHANICAL CHARACTERISTICS (FRONT)



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MECHANICAL CHARACTERISTICS (BACK)

