

15.6" FULL HD ENHANCED LED BACKLIT DISPLAY SOLUTION

Sunlight Readability/Very Wide Range Dimming

GENERAL DESCRIPTION

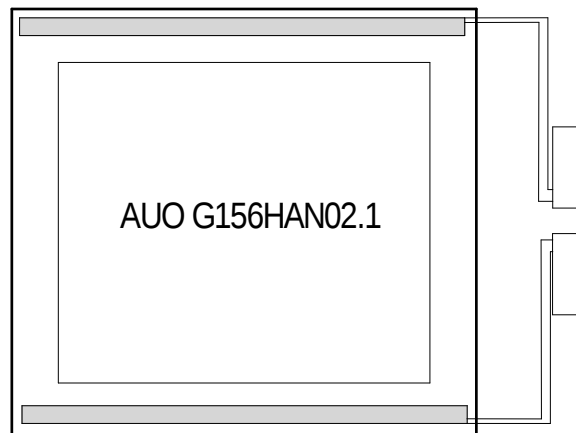
The ACD-AU156-3051 consists of the AUO G156HAN02.1 15.6" FULL HD TFT display, modified with a high performance LED backlight.

Performance at given luminance levels

1650 cd/m² with 37.4 watts LED power (Day)

For many applications, satisfies sunlight readability goals

05/12/2021



LCD PANEL HIGHLIGHTS

15.6" TFT Active Matrix Color

344.16mm(H) x 193.59mm(V) viewable area

363.80mm(W) x 215.90mm(H) x 9.5mm(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 G156HAN02.1

LED BACKLIGHT FEATURES

Dual Edge White LED rails

Single connector allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

Designed to be driven by constant current, selectable dual output LED backlight driver ¹

¹ For best power transfer and control, use ACI-3048 LED Drivers.

PRODUCT DATA SHEET

MAXIMUM RATINGS*

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Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	-20 to +70	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +95	Deg-C
Tstg ¹	Display storage temperature	-20 to +70	Deg-C
IfwdD	LED forward current (Day)	84	mA

*Maximum Ratings are those values beyond which damage may occur

¹Per Manufacturer's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd(Day) = 70mA per bank, 3 banks per rail, 2 rails per display, LED rails: ACR-3042, 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 (Day)		1320	1650		cd/m ²
u'd	White u' coordinate (DAY)			0.196		-
v'd	White v' coordinate (DAY)			0.476		-
Rd	White radius error (DAY)				0.040	-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

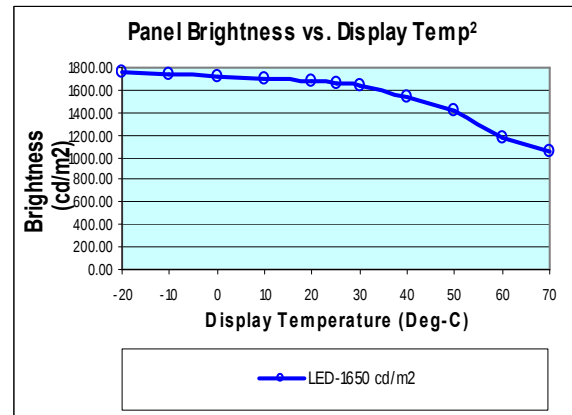
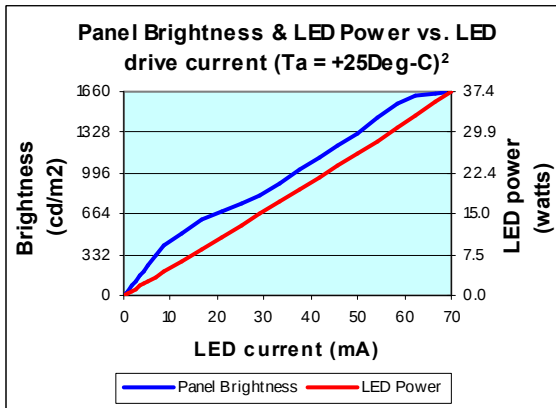
Ifwd(Day) = 70mA, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop (Day mode)		80	89	98	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

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Day



² Moving air (36.0 CFM)



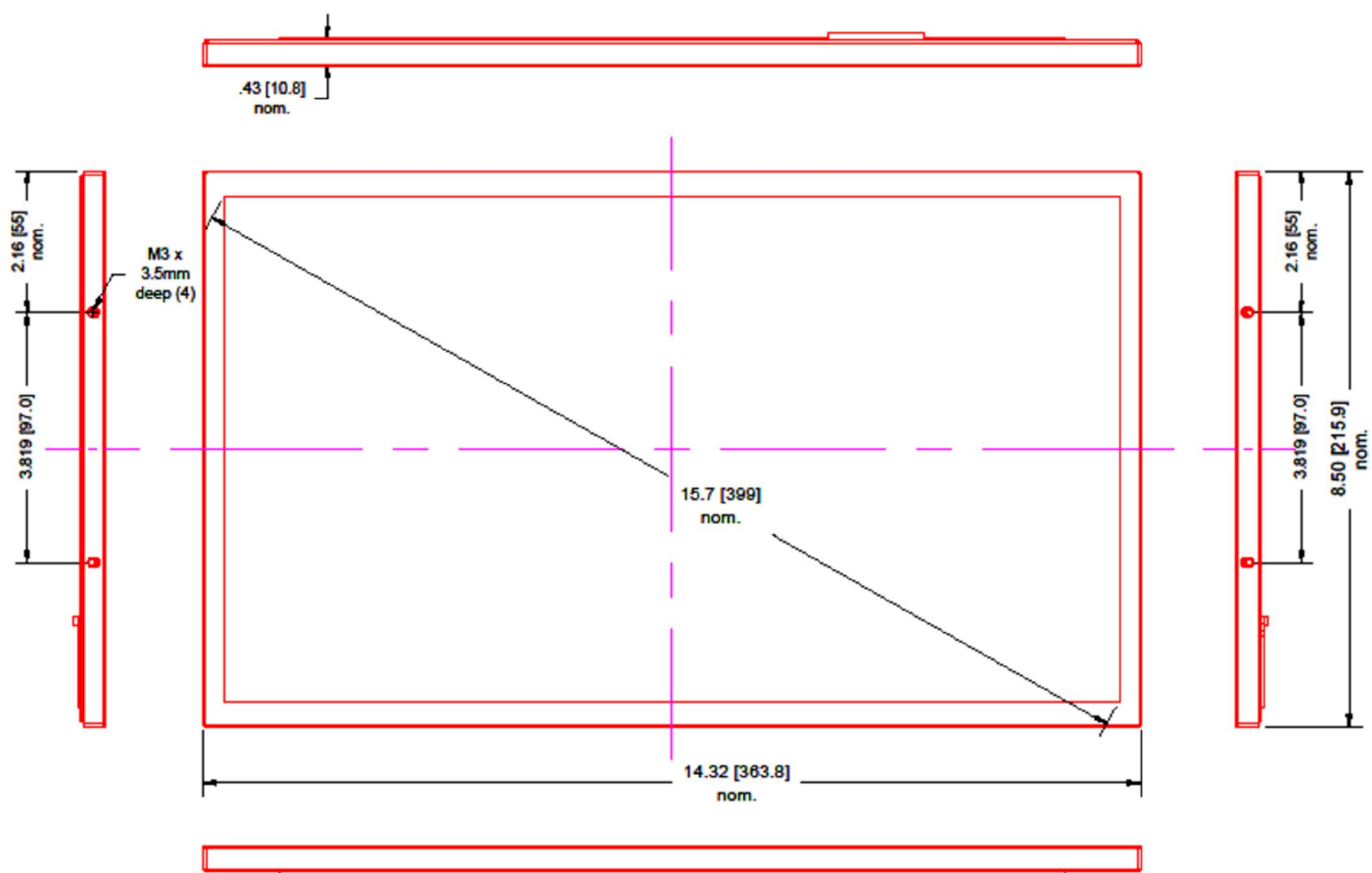
**397 Route 281
Tully, New York 13159
Phone: 315-696-6676
Email: sales@acipower.com
www.acipower.com**

ACD-AU156-3051

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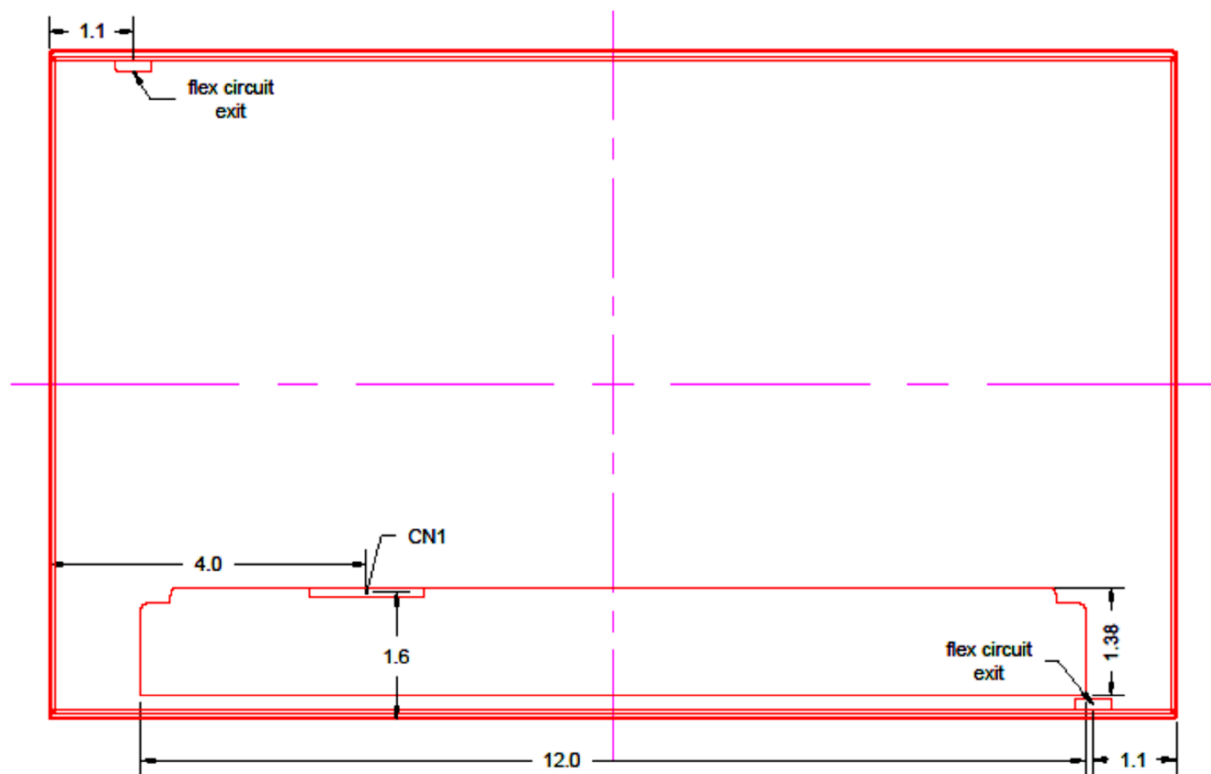
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MECHANICAL CHARACTERISTICS FRONT



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MECHANICAL CHARACTERISTICS BACK

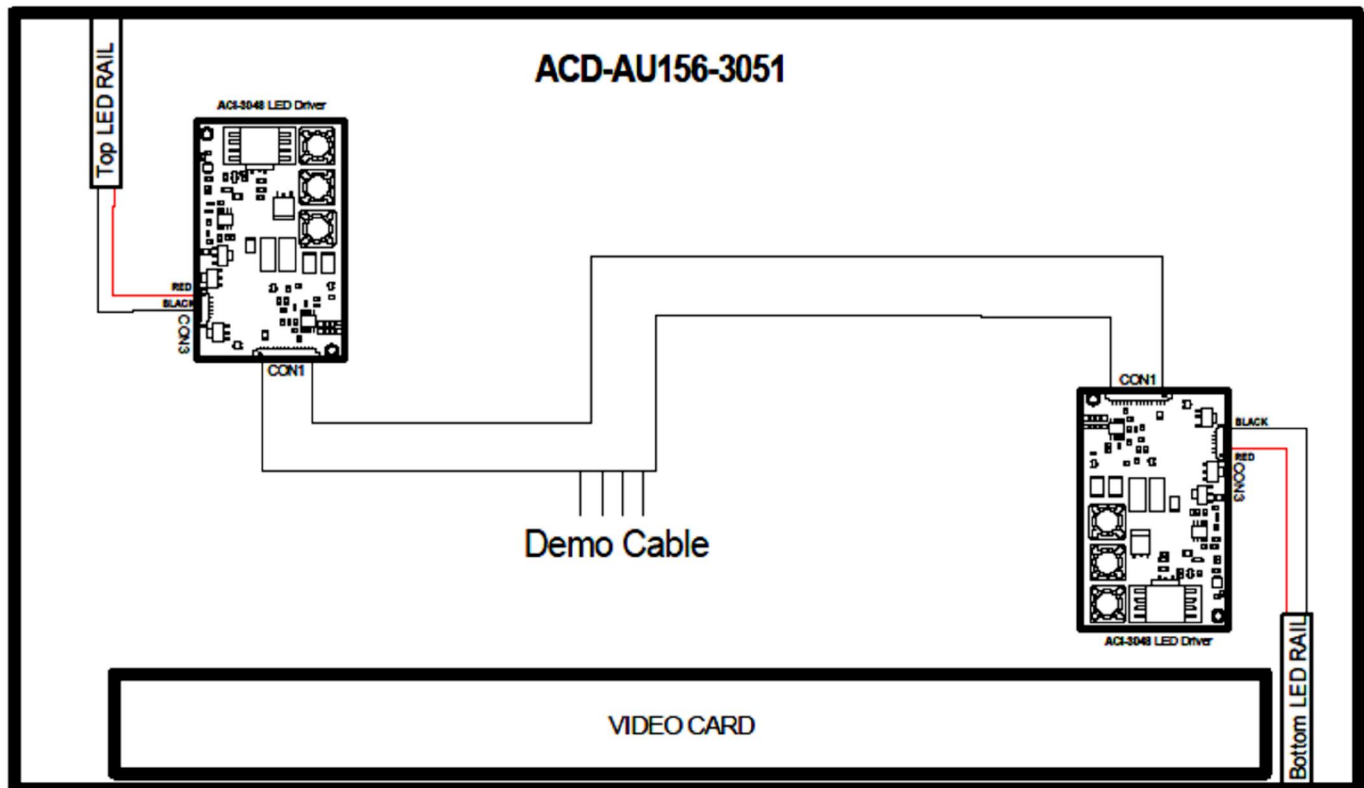


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DRIVER CONNECTION DIAGRAM



DEMO CABLE CONNECTION DIAGRAM

