



397 Route 281
Tully, New York 13159-1175
Phone: 315 696-6676
Fax: 315 696 9923
Email: sales@acipower.com
www.acipower.com

ACD-AU170-2900

PRODUCT DATA SHEET

11/08/17

17.0" SXGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

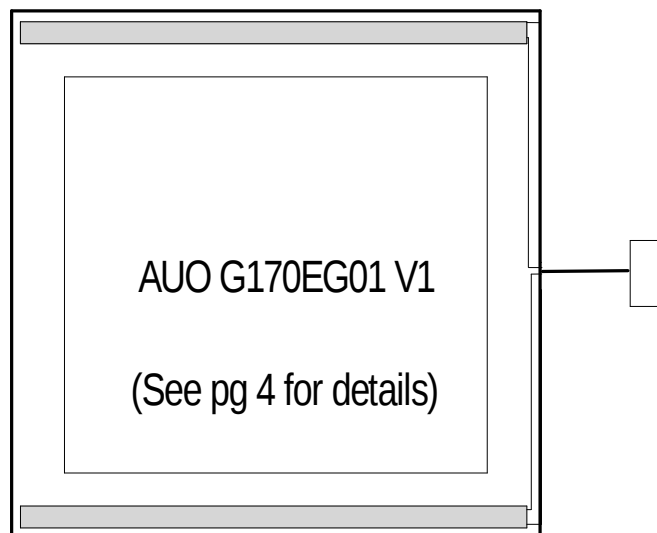
The ACD-AU170-2900 consists of the AUO G170EG01 V1 SXGA TFT display modified with a high performance LED backlight.

Performance at given brightness levels

1000 cd/m² with 28.8 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals



LCD PANEL HIGHLIGHTS

17.0" TFT Active Matrix Color

337.920 (H) mm x 270.336 (V) mm viewable area

SXGA 1280 x 3(RGB) x 1024 pixels, 16.7M colors

1000:1 typical contrast ratio

Display Mode Normally White

Physical Size 358.5(W)mm x 296.5(H)mm x 18.0(D)mm

For complete LCD specification (standard panel), refer to AUO G170EG01 V1 data sheet.

LED BACKLIGHT FEATURES

White LED edge-light rail

Custom wire connection with Polyester braid and strain relief, allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use ACI-E080450-2706 LED driver. Do not set the driver output current (Ifwd) higher than the value specified in the Maximum Ratings table of this document. Please contact the factory for more specific use LED driver solutions if required.

MAXIMUM RATINGS*

Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	-30 to +85	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg ¹	Display storage temperature	-30 to +85	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	68	mA

*Maximum Ratings are those values beyond which damage may occur

1 Per Manufacturer's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 56.25mA per bank, LED rail ACR-0684-2781, 4 banks per rail, 2 rails per display, Ta = +25Deg-C, moving air (36.0 CFM) min 2hr soak

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.277		-
Y	White Y coordinate			0.306		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 56.25mA per bank, 4 banks per rail, 2 rails per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		58	64	70	Vdc



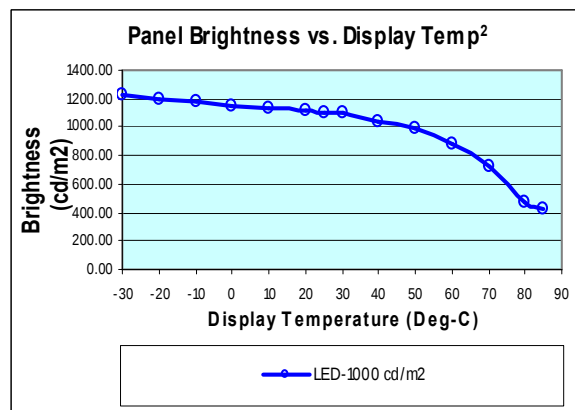
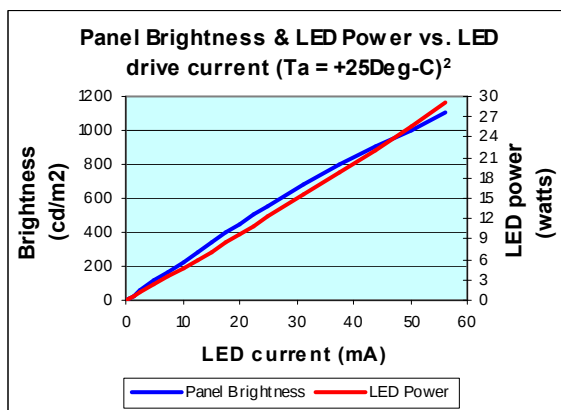
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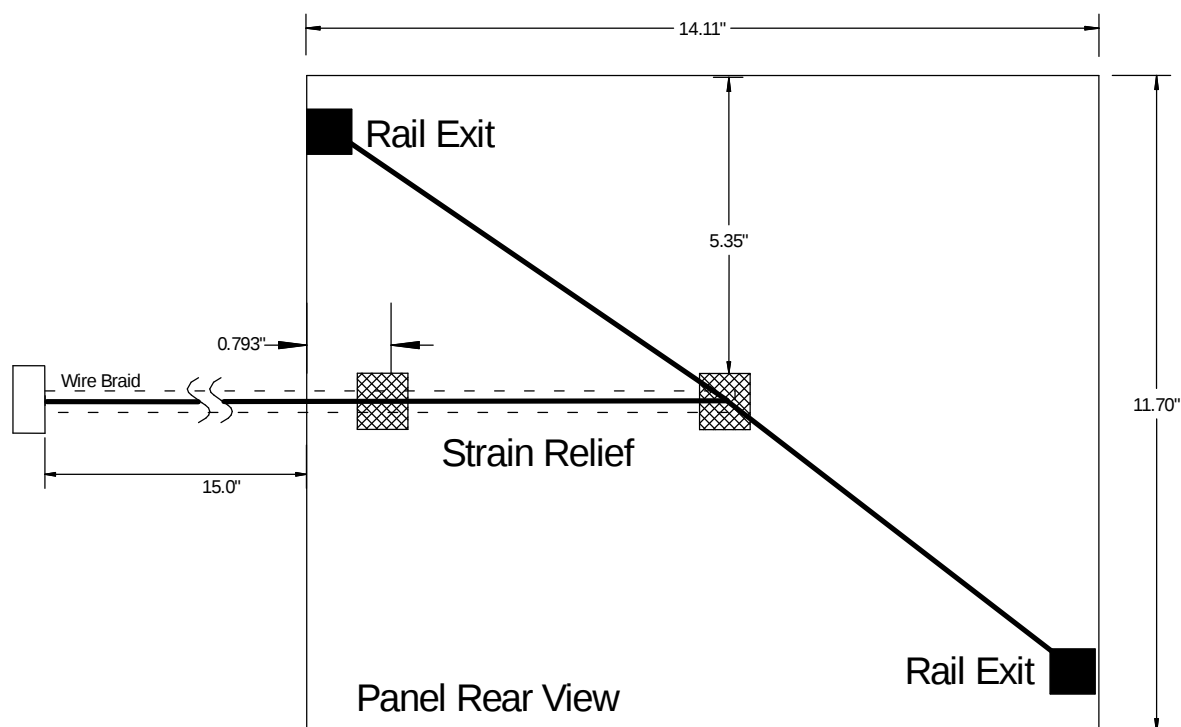
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TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS



² Moving air (36.0 CFM)

MECHANICAL CHARACTERISTICS (REAR)



Reference 63-A0002