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ACD-2330

PRELIMINARY DATA SHEET – PAGE 1 OF 3

17" SXGA LED BACKLIT TFT DISPLAY WITH NVIS CLASS B CAPABILITY

Sunlight Readability/1000:1 dimming/Cool operation

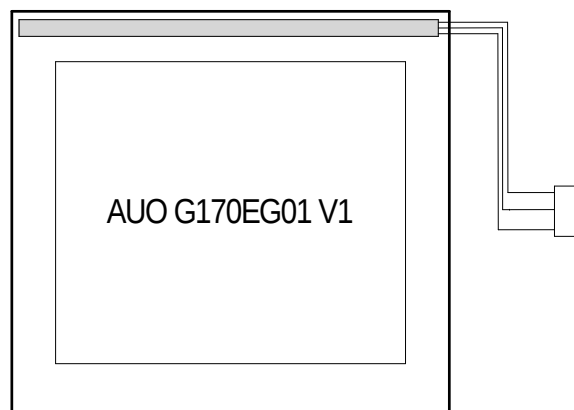
GENERAL DESCRIPTION

The ACD-2330 consists of the AUO G170EG01 V1 SXGA TFT display modified with a high performance LED backlight capable of Day and NVIS (Class B green).

Performance at given brightness levels

500 cd/m² with 24.1 watts LED power (Day)
3.5 cd/m² with 4.1 watts LED power (NVIS)

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LCD PANEL HIGHLIGHTS

17" TFT Active Matrix Color
337.920 (H) mm x 270.336 (V) mm viewable area
SXGA 1280 x 1024 pixels, 16.7 M colors
1000:1 typical contrast ratio
72% color gamut (NTSC color space)

For complete LCD specification (standard panel), refer to the AUO G170EG01 V1 datasheet

LED BACKLIGHT FEATURES

White and NVIS LED edge-light rail
Three wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹
Projected lifetime > 75,000 hours
50,000:1 or better dimming ratio (Day)¹
Minimum NVIS intensity equal to 0.003 cd/m² or less¹

¹ For best power transfer and control, use one ACI-2329 Dual Mode Driver.

MAXIMUM RATINGS

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Symbol	Parameter	Value	Unit
Top	Ambient Operating temperature of display (Free Air)	-30 to +45	Deg-C
Tbez	Operating temperature of Panel Bezel (Top Center of Bezel)	-30 to +75	Deg-C
Tstg	Display storage temperature	-20 to +60	Deg-C
Ifwd	LED forward current (Day)	120	mA
Ifwd	LED forward current (NVIS)	42	mA

*Maximum Ratings are those values beyond which damage may occur

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd(Day) = 115mA per bank, 2 banks per rail, 1 rail per display, Ifwd(NVIS) = 40mA per bank, 1 bank per rail, 1 rail per display, LED rails: ACR-2387, Ta = +25Deg-C, LCD unpowered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bpd	Panel Brightness (Day)		450	500	550	cd/m ²
Bpn	Panel Brightness (NVIS)		3.2	3.5	3.8	cd/m ²
Xd	White X coordinate (Day mode)			0.266		-
Yd	White Y coordinate (Day mode)			0.278		-
XN	White X coordinate (NVIS)			0.236		-
YN	White Y coordinate (NVIS)			0.725		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

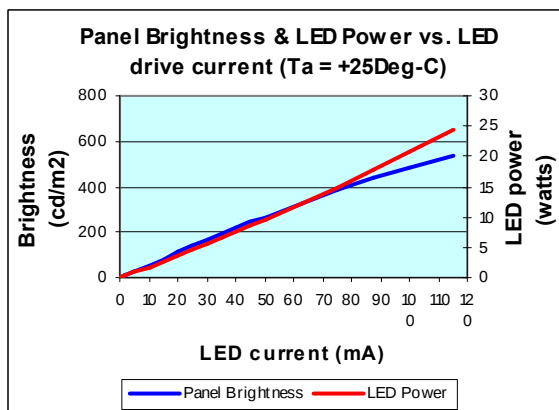
Ifwd(Day) = 115mA, Ifwd(NVIS) = 40mA, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop (Day mode)		95	105	115	Vdc
Vfwd	LED rail forward voltage drop (NVIS)		93	103	113	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

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Day mode



NVIS

