



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

ACD-AU170-2283

PRELIMINARY DATA SHEET – PAGE 1 OF 2

17.0" SXGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-AU170-2283 consists of the AUO G170G01 V1 SXGA TFT display modified with a high performance LED backlight.

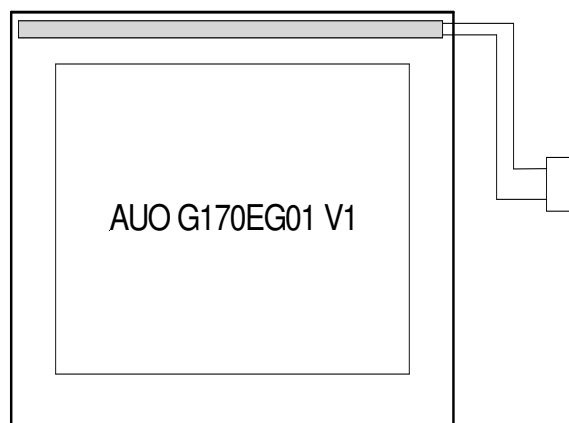
Performance at given brightness levels

600 cd/m² with 14.4 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

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LCD PANEL HIGHLIGHTS

17.0" TFT Active Matrix Color

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

SXGA 1280(x3) x 1024 pixels

16.7M colors (RGB 6-bits + Hi-FRC data)

1000:1 typical contrast ratio

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

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

Active fault protection keeps remaining LED's operating normally if one should ever fail

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use ACI-E120185-2284 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

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Symbol	Parameter	Value	Unit
Top	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	Display storage temperature	-30 to +85	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	111	mA

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 92.5mA per LED bank, 2 banks per rail, 1 rail per display (LED rail ACR-0782-2282), Ta = +25Deg-C, LCD in-active

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		540	600	660	cd/m ²
X	White X coordinate			0.277		-
Y	White Y coordinate			0.321		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 92.5mA per LED bank, 2 banks per rail, 1 rail per display (LED rail ACR-0782-2282), Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		70	78	86	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

