

## 17.0" SXGA LED BACKLIT TFT DISPLAY

1000:1 dimming/Cool operation

### GENERAL DESCRIPTION

08/14/2014

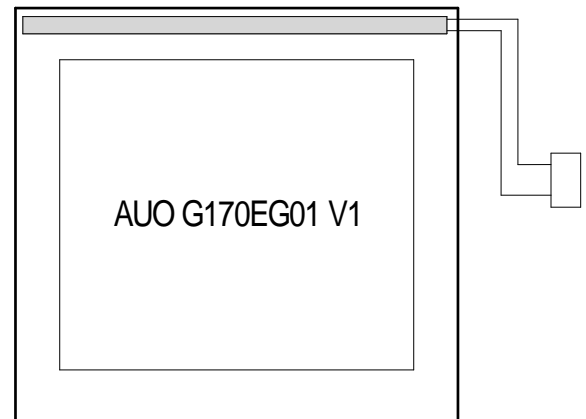
The ACD-2283 consists of the AUO G170EG01 V1 SXGA TFT display modified with a high performance LED backlight.

Customer Consigned panel

#### Performance at given brightness levels

700 cd/m<sup>2</sup> with 20.1 watts LED power

Display outline identical to standard LED equipped panel



### 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

Display Mode: Normally White

*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 driver<sup>1</sup>

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, guaranteed<sup>1</sup>

<sup>1</sup> For best power transfer and control, use ACI-E100300-2545 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.

ACD-2283

**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)	90	mA

**PANEL/BACKLIGHT OPTICAL CHARACTERISTICS**

Ifwd = 75mA per LED bank, 4 banks per rail, 1 rail per display (LED rail ACR-0684-2456), Ta = +25Deg-C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		630	700	770	cd/m <sup>2</sup>
X	White X coordinate			0.259		-
Y	White Y coordinate			0.285		-

**LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS**

Ifwd = 75mA per LED bank, 4 banks per rail, 1 rail per display (LED rail ACR-0684-2456), Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		60	67	74	Vdc

**TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS**

