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17.0" SXGA LED BACKLIT TFT DISPLAY

1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-2581 consists of the AUO M170EG01 V5 SXGA TFT display modified with a high performance LED backlight.

Customer Consigned Panel.

Performance at given brightness levels

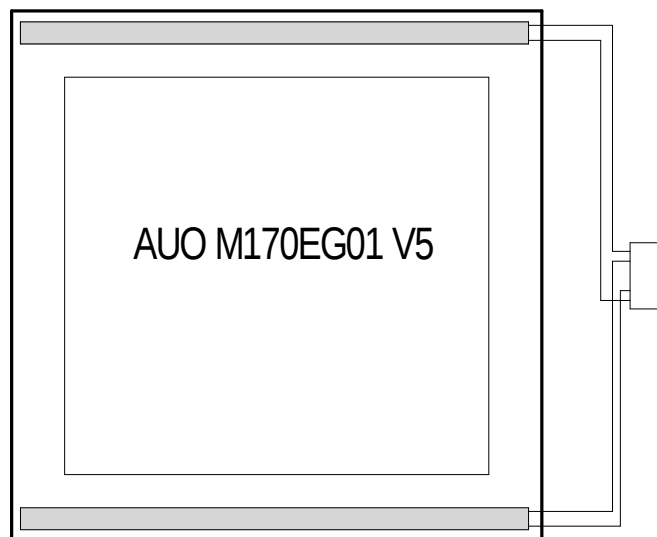
900 cd/m² with 38.7 watts LED power

Display outline identical to standard CCFL equipped panel

ACD-2581

PRODUCT DATA SHEET

10/29/14



LCD PANEL HIGHLIGHTS

17.0" TFT Active Matrix Color

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

SXGA 1280 x 1024 pixels, 16.2M colors

1000:1 typical contrast ratio

Display Mode Normally White

For complete LCD specification (standard panel), refer to AUO M170EG01 V5 data sheet.

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

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use ACI-F100440-2582 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	Operating temperature of display (center of panel surface)	0 to +50	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg	Display storage temperature	-20 to +60	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	88	mA

*Maximum Ratings are those values beyond which damage to the driver may occur

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 73.3mA per bank, LED rail ACR-0853-2583, 3 banks per rail, 2 rails per display, Ta = +25Deg-C, LCD unpowered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		810	900	990	cd/m ²
X	White X coordinate			0.260		-
Y	White Y coordinate			0.296		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 73.3mA per bank, 3 banks per rail, 2 rails per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		79	88	97	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

