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ACD-2181

PRODUCT DATA SHEET – PAGE 1 OF 2

17.3" Full HD LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-2181 consists of the AUO G173HW01 V0 Full HD TFT display modified with a high performance LED backlight.

Performance at given brightness levels

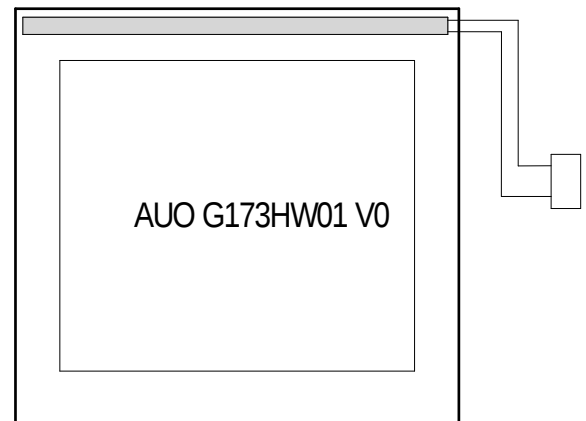
1000 cd/m² with 29.8 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

Customer Consigned Panel

04/24/14



LCD PANEL HIGHLIGHTS

17.3" TFT Active Matrix Color

381.888 (H) mm x 214.812 (V) mm viewable area

Full HD 1920(x3) x 1080 pixels

16.7M colors (6-bits + HiFRC)

600:1 typical contrast ratio

Display Mode Normally White

For complete LCD specification (standard panel), refer to AUO datasheet G173HW01 V0

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-E085360-2494 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

04/24/14

Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	0 to +70	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg	Display storage temperature	-20 to +70	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	108	mA

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 90mA per LED bank, 4 banks per rail, 1 rail per display (LED rail ACR-0834-2166), Ta = +25Deg-C, LCD active

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.272		-
Y	White Y coordinate			0.293		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 90mA per LED bank, 4 banks per rail, 1 rail per display (LED rail ACR-0834-2166), Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		74	83	92	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

