



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

ACD-AU173-2227

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-AU173-2227 consists of the AUO G173HW01 V0 Full HD TFT display modified with a high performance LED backlight.

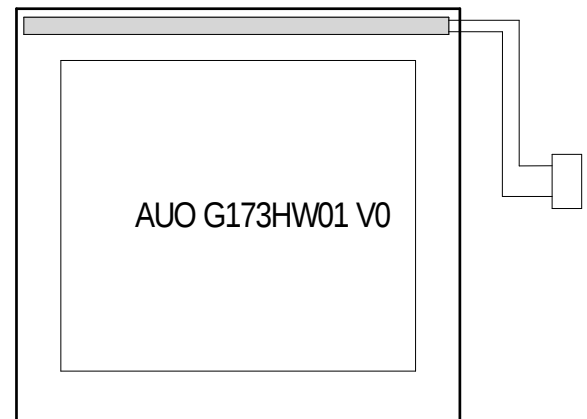
Performance at given brightness levels

1000 cd/m² with 29.8 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

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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 one of the following LED drivers:

ACI-E085360-2493

ACI-3017 (Conformal Coated with Humiseal 1B73)

MAXIMUM RATINGS

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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

