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ACD-1947

PRODUCT DATA SHEET – PAGE 1 OF 2

17.0" SXGA LED BACKLIT TFT LCD DISPLAY

Sunlight Readability/1000:1 Dimming/Cool Operation

GENERAL DESCRIPTION

12/21/10

The ACD-1947 consists of the AUO G170EG01 V0 SXGA TFT LCD Display modified with a high-performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 1.9 to 1.

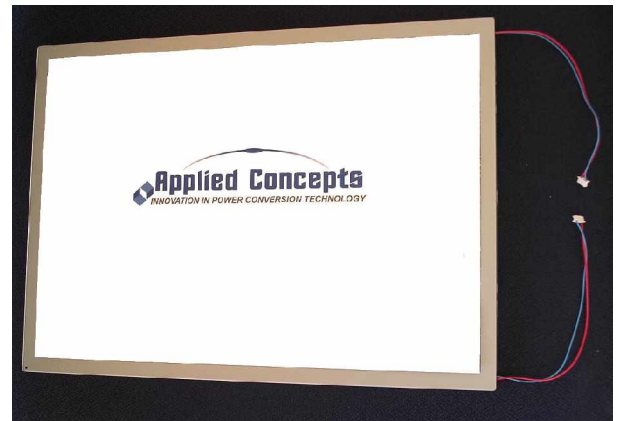
Customer Consigned Panel.

Performance at given brightness levels

1000 cd/m² with 33.5 Watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals



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, 16.7M colors

1000:1 typical contrast ratio

For complete LCD specification (standard panel), refer to AUO datasheet G170EG01 V0

LED BACKLIGHT FEATURES

White LED edge-light rail

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

Projected lifetime > 75,000 hours

Active fault protection keeps remaining LEDs operating normally, if one should ever fail

1000:1 or better dimming ratio, guaranteed

MAXIMUM RATINGS*

12/21/10

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)	-20 to +75	Deg-C
Tstg	Display storage temperature	-20 to +60	Deg-C
Ifwd	LED Forward Current	125	mADC

*Maximum Ratings are those values beyond which damage may occur.

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 87.5mA per bank (LED rail ACR-0972-1892, 2 banks per rail), Ta = +25Deg-C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.334		-
Y	White Y coordinate			0.373		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 87.5mA per bank, 2 banks per rail, 2 rails per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		87	97	107	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

