

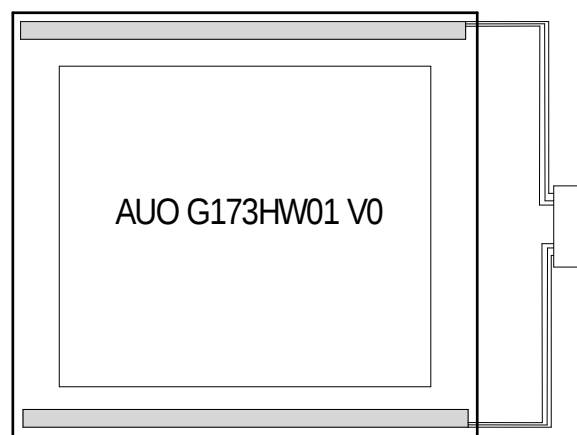
17.3" FULL HD LED BACKLIT TFT DISPLAY WITH NVIS WHITE CAPABILITY

GENERAL DESCRIPTION

The ACD-2809 consists of the AUO G173HW01 V0 TFT display modified with a high performance LED backlight capable of Day and NVIS White operation.

Performance at given brightness levels

1000 cd/m² with 30.5 watts LED power (Day)
25 cd/m² with 19.6 watts LED power (NVIS)



LED BACKLIGHT FEATURES

Day and NVIS LED edge-light rail

Three wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

5000:1 or better dimming ratio (Day)¹

¹ For best power transfer and control, use ACI ID5 Dual Mode LED Driver ACI-2808.

LCD PANEL HIGHLIGHTS

17.3" TFT Active Matrix Color

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

Full HD 1920(3) x 1080 pixels, 16.7 M colors

600:1 typical contrast ratio

Display Mode Normally White

Physical Size 403.0(W)mm x 240.0(H)mm x 17.0(D)mm

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

MAXIMUM RATINGS *

Symbol	Parameter	Value	Unit
Top ¹	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 + 95	Deg-C
Tstg ¹	Display storage temperature	-20 to +70	Deg-C
Ifwd	LED forward current (Day)	65	mA
Ifwd	LED forward current (NVIS)	60	mA

*Maximum Ratings are those values beyond which damage may occur

1 Per Manufacturer's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd(Day) = 53.75mA per bank, 4 banks per rail, 2 rails per display, Ifwd(NVIS) = 50mA per bank, 2 bank per rail, 2 rails per display, LED rails: ACR-2738 Ta = +25Deg-C, moving air (36.0 CFM) min 2hr soak

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bpd	Panel Brightness (Day)		900	1000	1100	cd/m ²
Bpn	Panel Brightness (NVIS)		22.5	25.0	27.5	cd/m ²
Xd	White X coordinate (Day mode)			0.283		-
Yd	White Y coordinate (Day mode)			0.312		-
XN	White X coordinate (NVIS)			0.263		-
YN	White Y coordinate (NVIS)			0.288		-

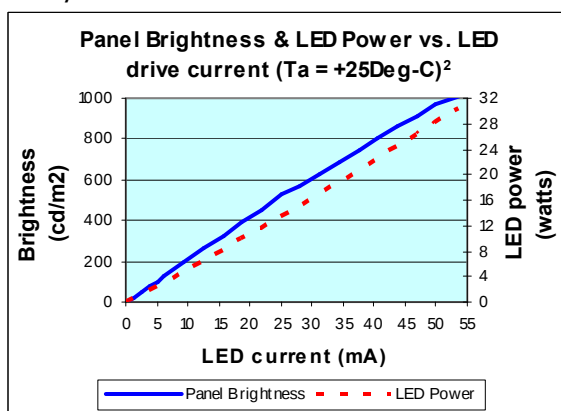
LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd(Day) = 53.75mA, Ifwd(NVIS) = 50mA, Top = +25Deg-C

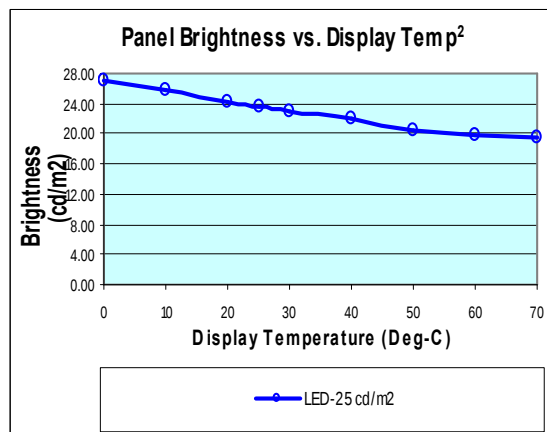
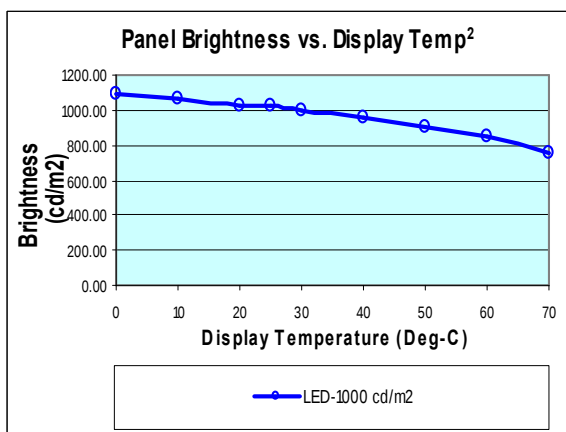
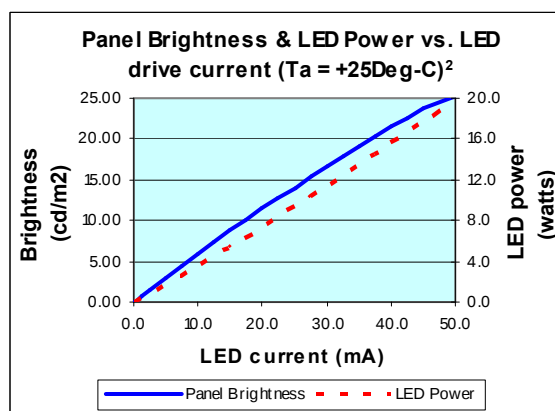
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop (Day mode)		64	71	78	Vdc
Vfwd	LED rail forward voltage drop (NVIS)		88	98	108	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

Day

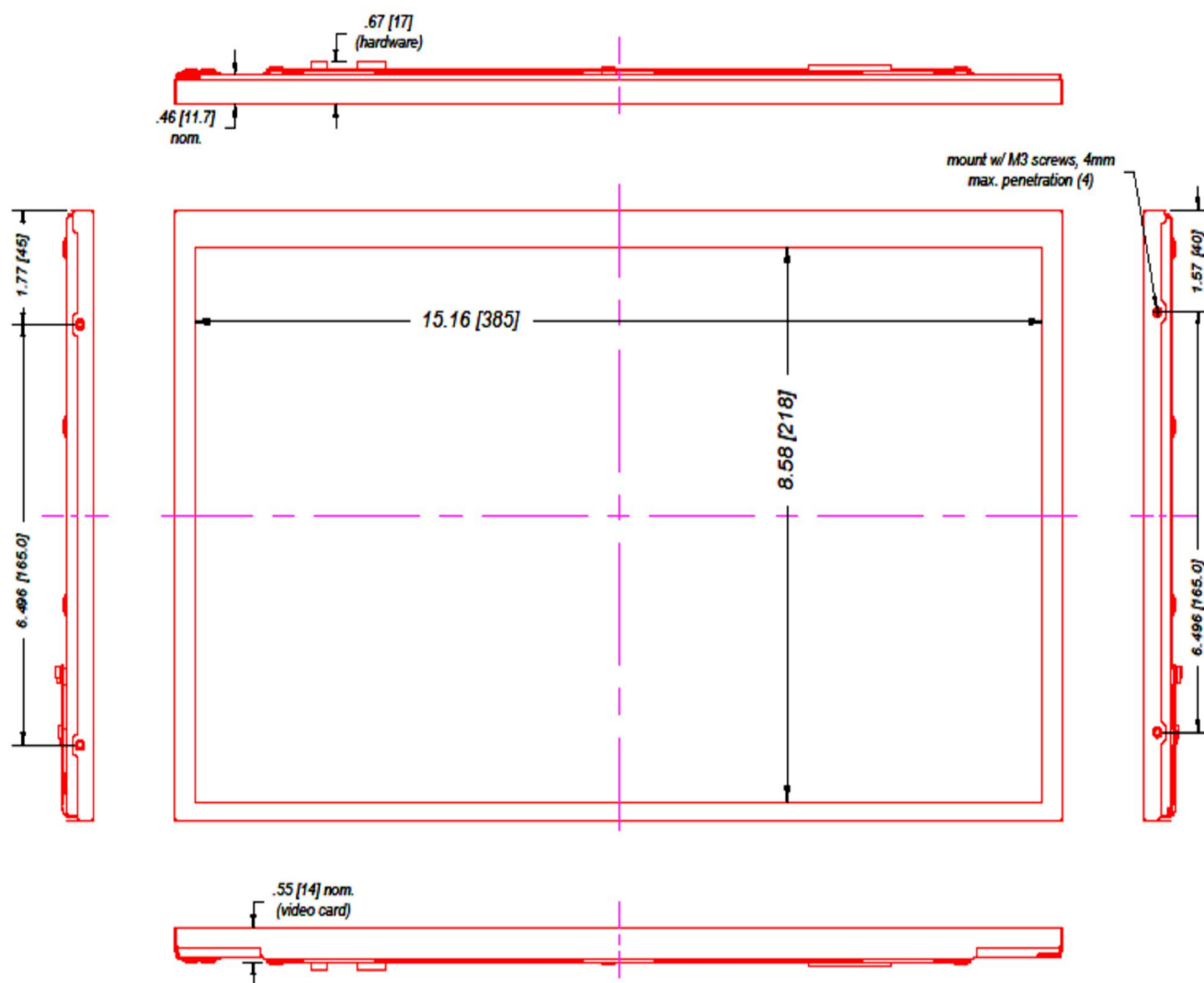


NVIS



² Moving air (36.0 CFM)

MECHANICAL CHARACTERISTICS (FRONT)



MECHANICAL CHARACTERISTICS (BACK)

