

10.1" WUXGA LED BACKLIT TFT DISPLAY WITH NVIS CLASS B CAPABILITY

GENERAL DESCRIPTION

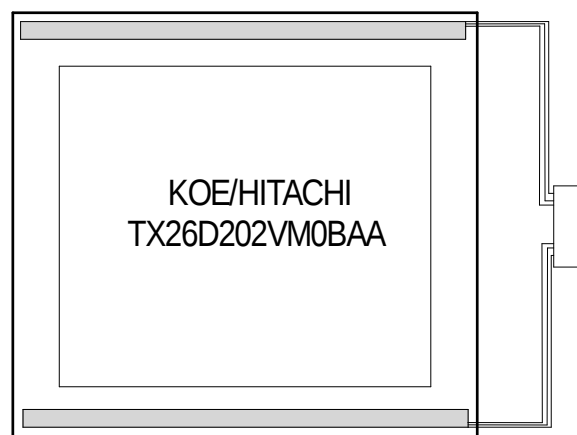
The ACD-2776 consists of the KOE/Hitachi TX26D202VM0BAA 10.1" TFT display modified with a high performance LED backlight capable of Day and NVIS Class B operation.

Customer Consigned panel

Performance at given brightness levels

500 cd/m² with 6.6 watts LED power (Day)

5 cd/m² with 2.5 watts LED power (NVIS)



LCD PANEL HIGHLIGHTS

10.1" TFT Active Matrix Color

135.9 (H)mm x 217.44 (V)mm viewable area

WUXGA 1920 x 1200 pixels, 16.7 M colors

800:1 typical contrast ratio

Display Mode Normally Black

Physical Size 232.1(W)mm x 153.2(H)mm x 10.9(D)mm

Must be used with Bonded Cover Glass

For complete LCD specification (standard panel), refer to the KOE/Hitachi TX26D202VM0BAA datasheet

LED BACKLIGHT FEATURES

Day and NVIS LED edge-light rail

Three wire connection (Typically 17 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 ID3 Dual Mode LED Driver ACI-2779A.

MAXIMUM RATINGS *

Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	-30 to +80	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to + 95	Deg-C
Tstg ¹	Display storage temperature	-30 to +80	Deg-C
Ifwd	LED forward current (Day)	60	mA
Ifwd	LED forward current (NVIS)	24	mA

*Maximum Ratings are those values beyond which damage may occur

1 Per Manufacturer's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd(Day) = 50mA per bank, 1 bank per rail, 2 rails per display, Ifwd(NVIS) = 20mA per bank, 1 bank per rail, 2 rails per display, LED rails: ACR-2766 Ta = +25Deg-C, moving air (36.0 CFM) min 2hr soak

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bpd	Panel Brightness (Day)		450	500	550	cd/m ²
Bpn	Panel Brightness (NVIS)		4.5	5	5.5	cd/m ²
Xd	White X coordinate (Day mode)			0.355		-
Yd	White Y coordinate (Day mode)			0.416		-
XN	White X coordinate (NVIS)			0.315		-
YN	White Y coordinate (NVIS)			0.435		-

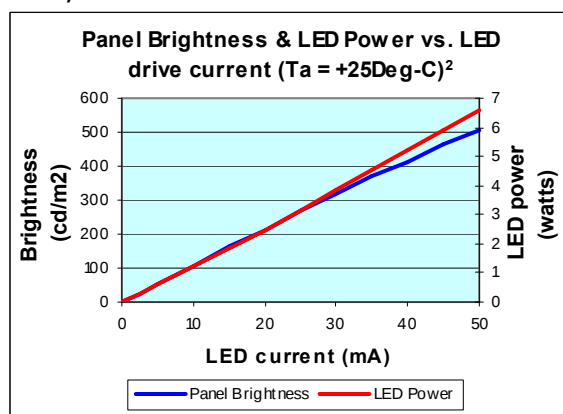
LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd(Day) = 50mA, Ifwd(NVIS) = 20mA, Top = +25Deg-C

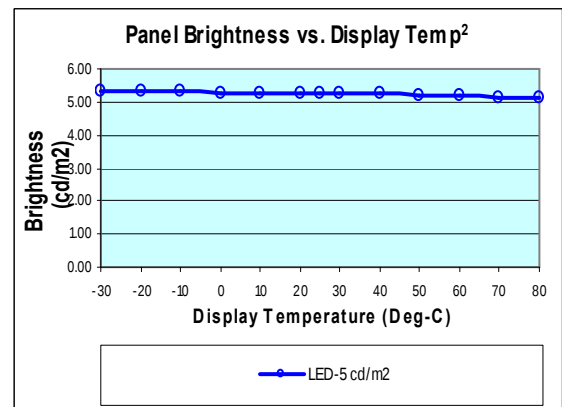
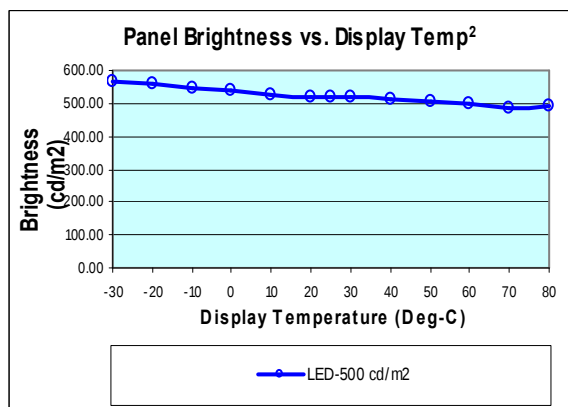
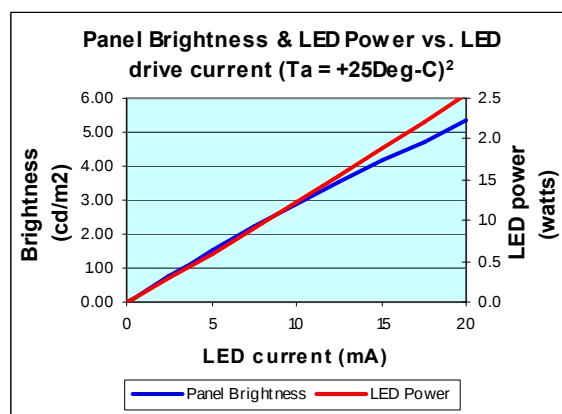
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop (Day mode)		59	66	73	Vdc
Vfwd	LED rail forward voltage drop (NVIS)		58	64	70	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

Day

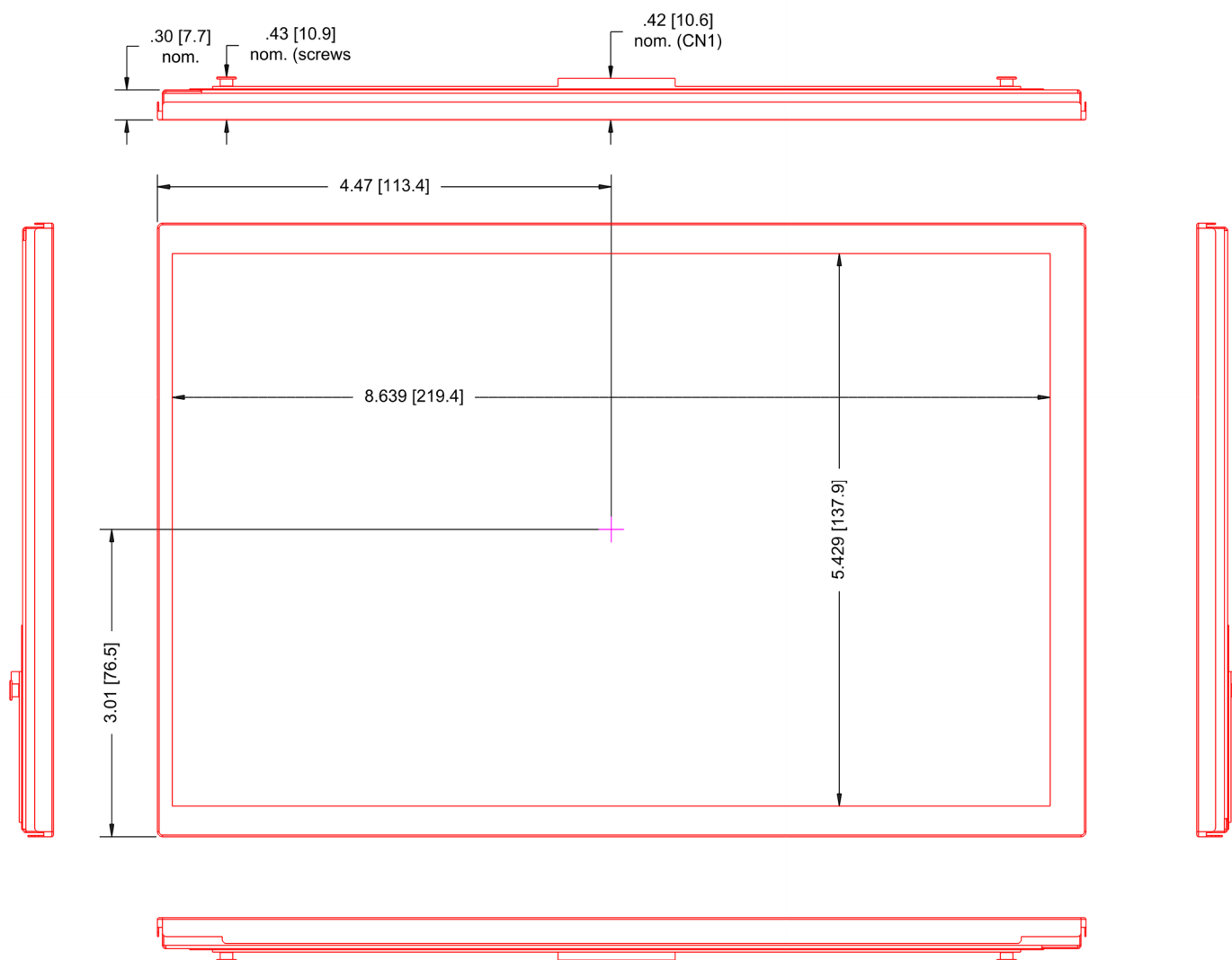


NVIS



² Moving air (36.0 CFM)

MECHANICAL CHARACTERISTICS FRONT



MECHANICAL CHARACTERISTICS BACK

