Esterline

Featuring CODIS Products

TCD-361/TS LED

24" high-bright tower control display

Highbright LED backlights

Esterline's TCD-361/LED is a 24" widescreen tower display for air traffic control applications. Its high-bright LED backlights and WUXGA resolution bring optimum reading quality, reliability, and user comfort to tower control operators.

Perfect brightness at all times

The tower control display's long-life backlight system combined with Esterline's stabilization technology ensures stable brightness over time. The integrated ambient light sensor automatically adjusts brightness settings in function of the ambient light conditions. Esterline's TCD-361/ LED is fan-less and noise-less and has a compact footprint to save space in the air traffic control tower.

What you'll love about the TCD-361/LED:

· Full color WUXGA resolution
· Long-life, power-efficient LED backlights
· Backlight output stabilization technology
· Ambient light compensation technology
· Fan- and noiseless
· Viewable under all circumstances

Product specification

TCD-361/LED

Native resolution	1920 x 1200 pixels
Pixel Pitch	0,270 x 0,270 mm
Active screen area	518.4 x 324.0 mm (19.83 x 19.83")
Active screen diagonal	611.4 mm (24.07")
Pixel arrangement	RGB vertical stripe
Backlight	Edge LED backlight system
LED lifetime	> 100.000 hours estimated
Luminance Stabilization	BLOS = backlight optical stabilization (real-time feedback loop through *continuous* measurement)
Brightness BLOS	680 cd/m² calibrated and stabilized (2 year) 600 cd/m² calibrated and stabilized with Touch Screen (2 year) Tolerances (+-10 %)
Brightness max	850 cd/m² typical 750 cd/m² typical with Touch Screen
Dimming ratio	200:1
Contrast ratio	Typical 1500:1 - ratio of white/black image (Min 1000:1)
Ambiant Light Control	Sensor integrated in OSD front control
Display colors	16.7 Mio (24bit)
Color temperature	Adjustable between native, D65 and custom
Viewing angle	Superwide viewing angle performance - 178 ° typical, with CR ≥ 10
Display uniformity	White brightness uniformity 75% (typ)
Reflection	TBD with and without touch screen
Response time	Tr (black to white transition): 10 ms, typical Tf (white to black transition): 8 ms, typical
Video inputs	Digital visual interface DVI - I Analog HDMI Display Port
Digital Multisync	Standard VESA resolution lower than maximum resolution (1920x1200) is displayed in letterbox format or scaled
Analog RGB (optionally)	On DVI-I Connector - Termination: R,G,B : 75 Ohm ; HS, VS : 75 Ohm - Sync On Green supported
Noise	Not Applicable - passive cooling only
Power Supply	Nominal voltage: 110 Vac & 230 Vac Operates between: 90-264 Vac Frequency range: 47-63 Hz
Power consumption	Pnom is typ 50 Watt, Pmax is typ 80 Watt, External Power supply - connector type: IEC
Control possibilities	Front control module controls On Screen Display Network - DHCP / Stat IP / SNMP USB port B DDC communication EDID 1.3 DDC communication - customer settings
Touch Screen	PCAP touch screen, Multi touch - 10 touches, resolution 2048x2048, HID Device
Sales support	Warranty standard 2 year - Extended warranty services - Maintenance training
Mounting	VESA 100x100 x M4 - M4 mounting available near corners, back side
EMI / EMC	EU/IEC/Canada/FCC: limit B
Safety	IEC60950-1, EN60950-1, UL60950-1, cUL60950-1, CCC
Operating temperature	10°C to 40°C (50°F to 104°F)
Humidity	85% at 35°C non-condensing atmosphere (operational and non-operational)

Approved for public release; distribution is unlimited.

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