

TX-335S

13" thin and lightweight extreme display



Barco's TX-335S is an extremely rugged, thin and low-weight 13" display. Designed for the most demanding environments of the rugged vehicle, the TX-335S has been selected for the British Army's Specialist Vehicle Platform. Featuring 20 user programmable function keys and long-term availability for future-proof performance, the TX-335S offers an ideal solution for battlefield management, fire control, driver's view enhancement, reconnaissance or local situational awareness inside today's rugged vehicles.

Extreme environments need extreme technologies

Barco's TX-335S display offers the latest proven technologies, such as low-reflection touch screen, LED backlighting, and sunlight readability. The TX-335S features a unique thermal management system which makes the display fit for the harshest temperature environments. The combination of low-risk, proven display technology with Barco's innovative display concepts makes the TX-335S the most trusted mission-critical display for vehicle operations on the market.

Barco's TX-335S features:

- 13" display with 1600 x 1200 resolution
- Low weight and slim design
- Innovative thermal management system
- LED backlights with high dimming ratio
- Near-zero latency

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- Fully sealed, fanless design
- Minimal power consumption
- Intelligent LCD heater system for quick start-up in cold conditions
- Generic vehicle architecture compliant (DEF STAN 23-09)
- EMI/EMC: DEF STAN 59-411 Land Class A compliant
- MilCAN-A interface
- 1 x DVI input, 1 x streaming video input (DEF STAN 00-82)

Product specifications**TX-335S**

Panel size	13.6" diagonal
Resolution	1600 x 1200 (UXGA)
Panel specifications	16.7 M colors, 256 gray scales
Brightness	Max. 686 cd/m ² (200 fL) typical Min: 0.03 cd/m ² (0.01 fL)
Dimming ratio	Typ. >2000:1
Contrast ratio	Min 300:1
Viewing angle	Viewing angle Hor. at CR=10 ±65° Viewing angle Vert. at CR=10 ±50°
Inputs	1 x single link DVI-D 1 x 1 Gbps Ethernet (DEF STAN 00-82 uncompressed video)
Control	MilCAN-A 6 x Digital Inputs (input selection) 10/100 MB Ethernet port (maintenance)
Connectors	MIL-D-38999/3 (DEF STAN 23-09 compliant)
Power Supply	28 VDC (DEF STAN 61-5 part 6 Issue 6, tailored limits)
Max. power consumption	At maximum brightness: 60 W With heating: 150 W
Operating temperature	Low operating temp.: -46°C High operating temp.: +63°C
Storage temperature	Low storage temp.: -46°C High storage temp.: +71°C
Humidity	Operating & storage: 95% at 40°C
Vibration	Test M1 (tracked vehicles)
Shock	30g 18 ms half sine, 200g 3 ms half sine
Ingress protection	IP65 (IEC 60529)
Altitude	Altitude (operating): up to 12,000 ft Altitude (storage): up to 50,000 ft
Sand & dust, salt fog	Compliant at unit level
EMI / EMC	EMI/EMC (DEF STAN 59-411 Part 3 Issue 1) Land Class A
Bezel controls	20 freely programmable function keys + 8 fixed function keys, MilCAN interface Dimmable backlight and key status indicators (DEF STAN 23-09 compliant) – dedicated brightness, covert, standby bezel keys
Touch screen	Low-reflection AR touch screen, MilCAN interface Dedicated touchscreen enable/disable button on the bezel