MOSARC™ LARGE AREA DISPLAY

OPEN SYSTEMS ARCHITECTURE, FUTURE-READY AVIONICS

Improved flight safety and performance

Reduce pilot workload and improve mission performance with Collins Aerospace Mosarc large area display (LAD). Pilots can easily access a wide variety of critical flight information, improving the safety and performance of each flight.

Mosarc LAD has a monolithic liquid crystal display (LCD) that offers a resistive multi-touch surface optimized for use with bare or gloved hands, eliminating unintended touchscreen activations. With high resolution technology, Mosarc LAD displays fully saturated colors in both day and night vision goggle (NVG) modes.

Our Mosarc display offers more cockpit forward visibility and weight balance flexibility, increases overall sunlight visibility and has electrically independent left/right halves to ensure fully redundant operation. Pilots see clear, synchronized, artifact-free video across the center of the display, enhancing operational usage and safety.

Our rugged, lightweight design delivers reliable performance in extreme environments with more than 12,000 operating hours mean time between failures (MTBF). Production-ready units are available now.

OPERATIONAL BENEFITS

- Improved product design opens up the cockpit allowing more forward visibility or a see-though cockpit effect
- Greater weight balance flexibility – reduces forward weight by combining with remote computers
- Ideal for VFR and other moving map tactical application

KEY FEATURES & BENEFITS

- Bezel options for rotary-wing
- Fault-tolerant, glove compatible, resistive touchscreen
- Optimized touch-activation force for bare hand or glove usage
- Maximum leverage of wide screen applications
- Left/right functionally independent electronics
- 1024 x 2560 pixel LCD with 128 dpi and fully saturated colors in day or NVG mode
- Optical design mitigates canopy reflections
- Optional power and control configurations

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SPECIFICATIONS

Display type	Remote display split electrically into left/right halves for fully redundant operation
LCD	7.98 in. x 19.96 in. (~20,2 x 50,7 cm), left/right electrically independent, 1024 x 2560 resolution, 128 dpi
Size	9.5 in. H x 21.5 in. W x 2.9 in. D (~24,1 x 54,6 x 7,3 cm) excluding mounting flange, finger rails and connectors, behind instrument panel
Touchscreen	Resistive, low-latency multi-touch
Weight	19 lbs. (~8.6 kg)
Input power	+28 VDC display power
Power dissipation	150 W maximum; 350 W maximum (optional LCD heater on)
Mounting	Eight front-mounting screws
Cooling	Internal redundant quiet fans
Storage temp.	-54° C to 95° C
Operating temp.	-40° C to 71° C
MTBF	>12,000 hours (ARW environment)
Brightness	>300 fL (default config) >500 fL (optional)
NVG compatibility	MIL-STD-3009, Class B and MIL-L-85762A, Class B
Certification	Developed to ARP4754A, DO-254 DAL A, DO-178C DAL A/B
Video inputs	Left video: 2x ARINC 818, 2x SMPTE 292/424 Right video: 2x ARINC 818, 2x SMPTE 292/424
Connector(s)	Left video, I/O and power MIL circular connectors Right video, I/O and power MIL circular connectors
I/O complement	Left +28 VDC power Right +28 VDC power LCD heater +28 VDC power or LCD heater +270 VDC power 0-5 VDC or 0-5 V 400 Hz AC bezel backlight Six input discretes per half One output discrete per half (bezel control discretes optional) Two left/right digital serial bus (RS-422 full duplex with dual-redundant outputs One left/right maintenance serial bus (RS-485 half-duplex input)

Specifications subject to change without notice.

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