MFD-4820 LARGE AREA DISPLAY

MAKING FLIGHTS MORE EFFECTIVELY HANDS-ON

Touchscreen ease for reduced workload

Fixed-wing pilots can access critical flight information with greater ease and flexibility with the Collins MFD-4820 large area display. Its wide, resistive multi-touch surface is optimized for use with gloved hands, to eliminate unintended touchscreen activations.

The MFD-4820 includes an 8-by-20-inch monolithic liquid crystal display (LCD). This eliminates the center mullion that in two side-by-side displays can introduce center-area blurriness or visual chatter.

In addition, the MFD-4820 has electrically independent left/right halves. This redundant-design architecture enhances operational usage and safety. Together, these features enable synchronized, artifact-free video formats across the center of the display.

The MFD-4820 increases sunlight visibility by providing more than 300 fL with less than 150 W of +28 VDC input power and a greater than 20:1 high-ambient contrast ratio.

Its high-reliability design projects a mean time between failures of more than 15,000 operating hours.

Bring greater clarity, variety of information and safety to your flights with the MFD-4820.

KEY FEATURES AND BENEFITS

- Latest LCD technology provides high resolution (1024 by 2560) with 128 dpi and fully saturated colors in day and NVG modes
- Touchscreen is fault tolerant, glove compatible, resistive multi-touch
- Optimized touch-activation force eliminates unintended activations for improved mission performance and reduced pilot workload
- Left/right functionally independent electronics ensure fully redundant operation
- Rugged, lightweight design delivers reliable performance in extreme environments
- Unique optical design mitigates canopy reflections
- Optional configurations include bezel buttons and alternate video interfaces

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SPECIFICATIONS

Display type	Remote display split electrically into left/ right halves for fully redundant operation
LCD	7.98" x 19.96", electrically left/right independent, 1,024 x 2,560 resolution (128 dpi)
Size	9.5" H (excluding mounting flange) x 21.5" W x 3.64" D (behind instrument panel, excluding finger rails and connectors)
Touchscreen	8" x 20" resistive, low-latency multi-touch
Weight	<20 lbs
Input power	+28 VDC display power
Power dissipation	150 W maximum; 350 W maximum (optional LCD heater on)
Mounting	Eight front-mounting screws
Cooling	Two internal fans
Storage temp.	-54° C to 95° C
Operating temp.	-40° C to 71° C
MTBF	>15,000 operating hours (AIF environment)
Brightness	>300 fL
NVG compatibility	MIL-STD-3009, Class B and MIL-L-85762A, Class B
Certification	Developed to ARP-4754, DO-254 DAL A, DO-178C DAL A/B
Video inputs	Left video: 2x ARINC 818, 2x SMPTE 292/424, DVI (optional) or display port (optional) Right video: 2x ARINC 818, 2x SMPTE 292/424, DVI (optional) or display port (optional)
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 LCD heater +270 VDC power (optional) 0-5 VDC bezel lighting voltage 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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Collins Aerospace
+1.319.295.1000
avionicsmarketing@collins.com
collinsaerospace.com