



## MFD-4820 LARGE AREA DISPLAY

# MAKING FLIGHTS MORE EFFECTIVELY HANDS-ON

### Touchscreen ease for reduced workload

Rotary-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 10,000 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 provide for 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



## SPECIFICATIONS

Display type	Remote display split electrically into left/right halves for fully redundant operation	Connector(s)	Left video, I/O and power MIL circular connectors
LCD	7.98" x 19.96", electrically left/right independent, 1,024 x 2,560 resolution (128 dpi)		Right video, I/O and power MIL circular connectors
Size	9.5" H (excluding mounting flange) x 21.5" W x 4.25" D (behind instrument panel, excluding finger rails and 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 (optional) 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)
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	>10,000 operating hours (ARW 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 (optional), DVI (optional) or display port (optional)  Right video: 2x ARINC 818, 2x SMPTE 292/424 (optional), DVI (optional) or display port (optional)		

Specifications subject to change without notice.



**Collins Aerospace**

+1.319.295.1000

avionicsmarketing@collins.com  
collinsaerospace.com