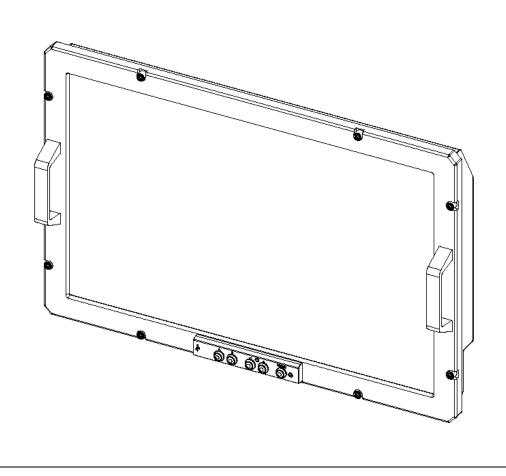
RF-27 27" Rugged COTS Display Series

Rugged Hi-Resolution Displays For Operation Critical Marine, Airborne and Ground Mobile Deployments



The RF-27 series of 27" displays are lightweight, rugged flat panel color monitors engineered to operate reliably under the demanding conditions routinely experienced during deployment in hostile environments. The RF-27 employs a 27" amorphous silicon active matrix LCD panel with WQHD (2560 x 1440) pixel resolution and True HD 16:9 Aspect Ratio. The rugged LED backlight system features 800:1 dimming over two ranges with adjustment below 0.5 cd/m². The RF-27 can be powered from selectable DC or AC sources and is convection cooled (no fans). The RF-27/Configuration 0 has been Flight Certified for Fixed Wing (Jet) applications but it is also ideally suited for Rotary Airborne, Ground Based Vehicle and Shelter applications. The 16.7M, True 8-bit color depth of the LCD panel makes the RF-27 ideal for Marine Sonar, Bridge and Navigation applications requiring high resolution.

- The RF-27 is available in several mechanical configurations to satisfy a wide range of mission requirements. Custom configurations are also available.
- The RF-27 comes standard with two A/B switchable Dual Link DVI inputs. Other configurations with support for Analog RGB, HDMI 1.4, Display Port, Composite Video and HD-SDI video are available.
- Active Heating for operation down to -40°C, Hi-Bright backlight enhancement for direct sunlight readability, Resistive and Multi-Touch Optical Touchscreens, NVG compatibility and ECDIS/N for Marine Bridge and Naval operations are available options.



Panel Size27.0" (684.7mm) DiagonalResolution2560 x 1440 WQXGA; 16:9 ARActive Display Area23.49"(556.74mm) x 13.21"(335.66mm); 0.2331 pixel pitchLuminance380cd/m² (typ.); Optional Hi-BrightContrast Ratio1000:1 (typ.)Optical Response TimeT-rise and T-fall = 7 msec avg. typicalViewing Angle (CR>10)89/89/89/89 CR>10 (L/R/U/D)Color Depth16.7M, True 8-Bit;Video Input ConfigurationsConfiguration 1: tea Analog RGB VGA, DVI Digital Video, HDMI 1.4 Configuration 1: tea Analog RGB, VGA, 2ea DVI, Display Port, Picture-in-Picture*Video Compatibility640x480 to 2550x1440Vertical Refresh60Hz at 2560x1440, 1920x1200, 1920x1080, UXGA; 75Hz all othersAnalog RGB Video SynchDigital Separate Synch, Composite Synch, RGS synch-on-green (Config 2 only)Oser ControlsPower, Video Channel A/B Select, Luminance Up/Down OSD: Menu, Select Up/Down, Adjust Up/Down; Hot KeysTouchscreen OptionsIR Optical with 2.6mm resolution and 6/12/32 Point Multi-Touch; Rugged Resistive; USB output standard; RS-232/422/485 output available.*Power SupplyEted and Certified to MIL-STD-1275, MIL-STD-704Power Consumption80 watts typ., 90 watts max. standard; 200 watts max with optional heater Vibration-Punctional*MIL-STD-810FEted and Certified to MIL-STD-461E: CE-102, RE-102, CS-101, CS-114, RS-103 *Consult Factory for additional test requirementsDrip Proof#MIL-STD-810FShock-Functional*MIL-STD-810FShock-Functional*MIL-STD-810FSafetyCE/CA/FCC(A)Ingress Protection#IP	Technical Specifications	
Resolution 2560 x 1440 WQXGA; 16:9 AR Active Display Area 23.49" (596.74mm) x 13.21" (335.66mm); 0.2331 pixel pitch Luminance 380cd/m² (typ.); Optional Hi-Bright Contrast Ratio 1000:1 (typ.) Optical Response Time T-rise and T-fall = 7 msec avg. typical Viewing Angle (CR>10) 89/89/89/89 CR>10 (L/R/U/D) Color Depth 16.7M, True 8-Bit; Video Input Configurations Configuration 0: 2ea A/8 Selectable Dual-Link DVI-D Digital Video Configuration 1: 1ea Analog RGB VGA, 2ea DVI, Display Port, Picture-in-Picture* Video Compatibility 640x480 to 2550x1440 Vertical Refresh 60Hz at 2560x1440, 1920x1200, 1920x1080, UXGA; 75Hz all others Analog RGB Video Synch Digital Separate Synch, Composite Synch, RGSB synch-on-green (Config 2 only) Composite Video (Optional) NTSC, PAL, SECAM, RS-170, RS-343 (Config 2 only) User Controls Power, Video Channel A/B Select, Luminance Up/Down OSD: Menu, Select Up/Down, Adjuts Up/Down; Hot Keys Touchscreen Options IR Optical with 2.6mm resolution and 6/12/32 Point Multi-Touch; Rugged Resistive; UBS output standard; RS-232/422/48S output available.* Power Supply DC Power 28/DC (18-36V); Optional MIL-STD-1275, MIL-STD-704 SD Zed VAC, SO-400Hz; Optional MIL-STD-1275/7/	Panel Size	
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User ControlsPower, Video Channel A/B Select, Luminance Up/Down OSD: Menu, Select Up/Down, Adjust Up/Down; Hot KeysTouchscreen OptionsIR Optical with 2.6mm resolution and 6/12/32 Point Multi-Touch; Rugged Resistive; USB output standard; RS-232/422/485 output available.*Power SupplyDC Power28VDC (18-36V); Optional MIL-STD-1275, MIL-STD-704 AC PowerAC Power95-264 VAC, 50-400Hz; Optional MIL-STD-1275/704;Power Consumption80 watts typ., 90 watts max. standard; 200 watts max with optional heaterVibration-Functional*MIL-STD-810FShock-Functional*MIL-STD-810FEMI/EMCTested and Certified to MIL-STD-461E: CE-102, RE-102, CS-101, CS-114, RS-103 * Consult Factory for additional test requirementsDrip Proof#MIL-STD-810FSafetyCE/CSA/FCC(A)Ingress Protection#IP 65 on console level std.; Optional IP65 on unit levelOperating Temp-10°C to +50°C standard; Optional -40°C to +55°C with heater.Storage Temp-20°C to +60°C standard;Humidity10-90%, non-condensingAltitude: Operating10,000ftAltitude: Storage40,000ft to 25,000ft per MIL-STD-810FChassis ConstructionAluminum AlloySize26.4" x 16.85" x 3.75Weight38 lbs.	· · ·	
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Chassis ConstructionAluminum AlloySize26.4" x 16.85" x 3.75Weight38 lbs.		8,000ft to 40,000ft to 25,000ft per MIL-STD-810F
Weight 38 lbs.	Chassis Construction	Aluminum Alloy
	Size	26.4" x 16.85" x 3.75
	Weight	38 lbs.
Other Options Mis-38999 connectors for all I/O connections	Other Options *	MS-38999 connectors for all I/O connections

*Consult Factory for Details. # Designed and Built to meet or exceed these standards.