



- ◆ Fully Qualified Solution
- ◆ Long-Range Color/BW Imager
- ◆ Low Light Operation to .07 lux
- ◆ 22x Parfocal Optical Zoom
- ◆ Wide Dynamic Range - Dawn to Dusk
- ◆ Image Enhancing Spectral Filters
- ◆ Waterproof, Dustproof to IP-67
- ◆ EMI/RFI Compatible
- ◆ Ice and Condensation Free to -40°C

MIL-Qualified Protection

Visible imaging has never been this rugged or feature packed. The DC-26 is built to take whatever nature can dish out. Operation from -40° to +55°C is standard. Shock to 20Gs, wind to 100 knots. EMI/RFI compatibility per relevant sections of MIL-STD-461, Part 5. Waterproof to 1m and pressurized.

Image Enhancement Filters

In Black & White mode, a series of 4 selectable filters provide enhanced viewing in smoke, dust, sky or vegetation by filtering out spectral content that detracts from target viewing. Sharp color daylight imagery is obtained by filtering out IR content. When low light conditions warrant, the IR can be passed to the detector array for high sensitivity B&W viewing.

Broad Dynamic Range

Operation from .07 lux (dusk) to 100,000 lux is standard. The iris operates from f/7 to f/3000 automatically with manual override to provide the maximum possible dynamic range. Gain and level control is automatic or may be programmed to optimize imagery under any condition.

Reliability & Maintenance

Designed for MTBF to 17,000 hours, the DC-26 built to be trouble-free and easy to maintain. Externally replaceable fuses have the same value. Camera iced over? Built in heaters melt up to ½ inch of ice even at -40°. The pressurized housing is designed for long term exposure. Camera pressure is easily read through a sight glass in at the rear bulkhead even when the power is off. The camera also features a software low pressure warning indicator.

Long Range Imaging

The DC-26 features 22x optical zoom that is fully programmable for zoom position. Once focused at infinity under maximum zoom conditions, focus is “par-focal”, or stays in focus over the full zoom range.

CI Camera Software Suite

Critical Imaging offers advanced control GUI software to control all camera systems. Focus and zoom and filter wheel position are readily modified, status codes interpreted and heaters/deicers operated. The camera’s control interface can be customized to emulate most existing control protocols for ready integration into higher level systems.

Features & Specifications

Imaging

Spectral Response	Color Day, B&W
Field of View	0.5° to 10.5° (optional 0.36° to 7.9°), Horizontal
Zoom	22x Optical, continuously variable, programmable
Response	.07 to 100,000 lux
Resolution	768 x 480 effective, 480 x 350 lines NTSC output
Signal to Noise	50dB with Dynamic Noise Rejection
Video Output	RS-170/170A 2.0Vpp/75Ω single ended or 4.0Vpp/150Ω differential
Filter Wheel	4 position + IR pass for enhanced B&W imaging in Smoke, dust, sky, vegetation and low light
IRIS	f/7 to f/3000 auto with programmable override. Power-off optical blocking for 100% solar protection
Focus	Motorized and programmable. Parfocal over zoom range from infinity to 100 ft., manual focus to 30 ft.
AGC/ALC	Automatic or manual, programmable
Video Annotation	Programmable on-screen text display

Command/Control

Interface	RS-422 or RS-232 (factory configurable)
Status Reporting	System status, camera settings, zoom/focus, system temperature.

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Improved Back Panel Design maintains system pressure for trouble-free long term environmental exposure. Camera housing is nitrogen purged and features a pressure gage for visual verification of seal integrity.



Environmental

Water/Dust Protection	IP-67 dust and water proof, pressurized
Temperature range	-40° to +55° C Operating, -40° to +65° C Storage Built-in heaters with high-temperature shut-down
Humidity	0-100%, condensing operating and storage
Altitude	-800 to +40,000 ft. Low pressure gage and alarm
Shock/Vibration	Shock to ±20G, Vibration to 4Grms Vehicle mountable
EMI/RFI	Protection and shielding per MIL-STD-461 part 5
Wind	90 knots continuous
De-Icing/Defogging	Automatic or manual, down to -40°C, ½ inch ice

Power

AC	115/230VAC, 50/60Hz or 208V 3Φ, 750W max 30W typical steady-state in warm conditions
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Physical

Size	32" x 7" diameter body Mounting ring 10" diameter
Weight	42 lbs.
Mounting	3-point mid-flange mounting ring with bore-site feature



ISO 9001:2008 Registered