

» SR - 5100

Background Discrimination Radiometer

Distribution in the UK & Ireland



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A background discrimination radiometer, the BDR provides clear IR contrast of moving targets in air-to-air, ground-to-air and air-to-sea scenarios.



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Background Discrimination Radiometer

» FEATURES

- ▶ Wide field of view in all spectral channels
- ▶ Ideal for tracking moving targets
- ▶ Exceptional flatness of field and sensitivity

» SPECIFICATIONS

System Dynamic Range:	>105 (with InSb Detector)
Frequency response:	DC coupled: 1 100 Hz (synchronous detection mode) AC coupled: up to 20 KHz in transient mode (1 Hz AC coupled) Analog detector output: up to 100 KHz (1 Hz AC coupled)
Minimal Detectable Irradiance	$<2 \times 10^{-10}$ watts / cm ²
Difference (MDID):	
FOV (instantaneous):	25 mrad
Filter Wheel:	Motorized - settable rotation rate between zero and 2 rev/sec. Provision is made for fitting 12 filters
Sighting:	On-line nonparallel boresighting telescope
Focusing:	Single focus on infinity
Chopping Rate:	25 300 Hz
Control and Data processing	The BDR interfaces a desktop PC for both control and data processing

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