



RAD Series

Infrared Radiometer

INTRODUCTION

Knowledge of emissive and reflective properties (called signature) of targets and backgrounds is an important factor to evaluate targets stealthiness and predict effectiveness of detection systems.

Signatures are usually measured by thermographic systems which can be advantageously complemented by radiometry which will provide increased sensitivity and higher measurement speed.

In order to enable measurement on moving objects, it is necessary to have rapid analysis. The HGH radiometers are well suited for these applications, under harsh environment.

They can be configured with different detectors and filters to optimise spectral range, sensitivity and response time.

APPLICATIONS

- Measurement of emission from decoys
- Characterisation of engine exhaust plumes
- Evaluation of infrared signatures
- Counter measures analysis

CONFIGURATION

- Optical head with wide selection of :
 - * interchangeable optics,
 - * modulation frequencies,
 - * spectral filters,
 - * detectors.
- Power supply unit
- Data acquisition and processing system
 - * PC computer with data acquisition board,
 - * software,
 - * signal real time acquisition,
 - * data storage on hard disk,
 - * real time display,
 - * selection of radiometric units : radiance, irradiance, radiant intensity,
 - * comparison with reference source,
 - * calibration management,
 - * data summation, subtraction , multiplication, division,
 - * conversion of data to ASCII and EXCEL formats.



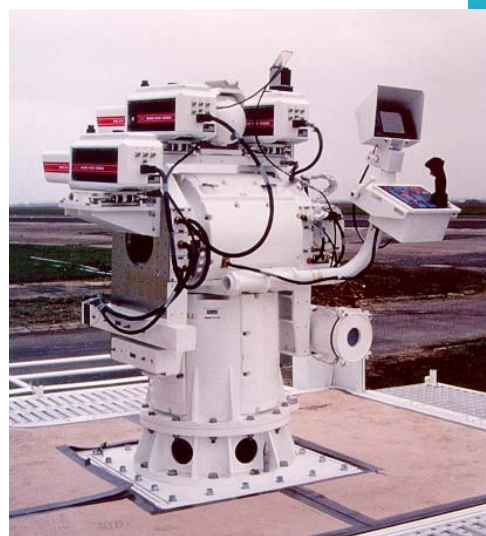
RAD 314



RAD 115



RAD 115 BS



RAD 314 on tacking mount

TECHNICAL DATA

	RAD 314	RAD 115	RAD 115 BS
Optics	Wide choice available from 2.5 mrad to 20°	3° or 20°	3° or 20°
Spectral range	Wide choice of ranges within 1 to 14 μm (dual band available)	1 to 3 μm or 3 to 5 μm	Bi - spectral 1 to 3 μm and 3 to 5 μm
Detectors	Wide choice available : PbS, PbSe, MCT, InSb	PbS, PbSe, MCT	PbS, PbSe, MCT
Capability to add spectral filters, density filters	Yes	Yes	Yes
Modulation frequency	Up to 1 kHz	Up to 200 Hz with ability of measurements in fast transient mode	Up to 200 Hz with ability of measurements in fast transient mode
Dimensions (mm)	380(L) x 235(H) x 175(W)	\varnothing 125 x 330	\varnothing 175 x 330
Weight (kg)	13	3	6

Above information is subject to changes without notice



SYSTÈMES INFRAROUGES

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