

RUBY

IR NIGHT VISION GOGGLE



The RUBY IR uncooled camera is a high performance thermal camera which use the latest microbolometer focal plane arrays operating in the 8-12 μ m waveband. Advanced image processing algorithms, such as auto-manual AGC or histogram equalization are build in to provide the best sharp and clear image in any conditions. A binocular viewer provide superior display and comfort to the user. The viewer is detachable from the RUBY main body for remote and safe operation. The RUBY camera can be operated from a standard battery pack or from external power supply.

APPLICATIONS

- ◆ Surveillance and security
- ◆ Border patrol
- ◆ Night driving
- ◆ Unattended sensors
- ◆ Fire fighting cameras
- ◆ Police forces



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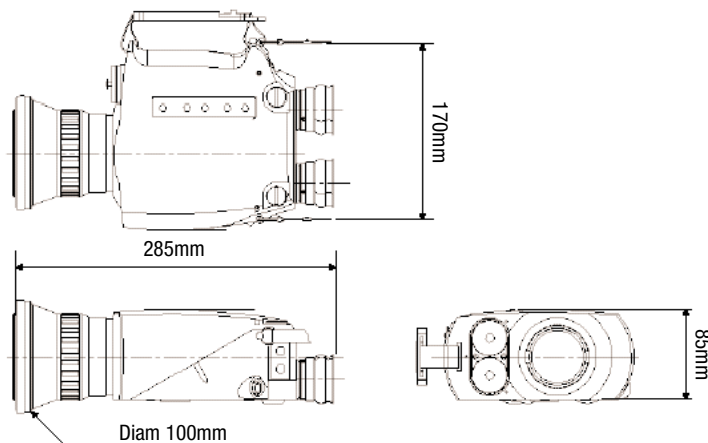
TECHNICAL SPECIFICATIONS

Item	Specification
Pixel number	320 (H) x 240 (V)
Sensor material	Uncooled microbolometer
Cooling type	Uncooled with temperature stabilization
Spectral response	8-12 μm
Thermal sensitivity	90mK @ F/1.1 @ 30°C typical
Operability	>99.5%
Frame rate	50Hz or 60Hz
Analog output	CCIR 50Hz or RS170 60Hz, black & white
Viewer	Binocular display FoV 27°x20° Detachable from the main body for remote operation
Weight (inc. Battery & 100mm lens)	<2 kg
Input voltage	7-14 VDC (external)
Battery pack	Rechargeable battery pack NiMh or Li Ion
Operational temperature range	-20°C +45°C
Operating time per charge	6 hours with Li Ion battery
Power conservation	Standby mode, low power
Software command	RS 232, software communication control available
Image processing	Auto and manual gain and offset, histogram processing, color palette inversion... ^(*)
Magnification (NTSC mode)	X3.3 with a 100mm lens
User inter-pupil distance range	58mm to 72 mm (fixed by design)
Pupil size	10mm
Dioptre correction	-6 to +3
Immersion in water	1 meter for 2 hours

(*) The list of all processing features is available upon request to CEDIP

Focal length / F-number	FOV	IFOV
25 mm/ F/1.1	32° x 24°	1.8 mrad
60 mm/ F/1.1	14° x 10°	750 μrad
100 mm/ F/1.3	8° x 6°	450 μrad

Other lenses available upon request



CEDIP Infrared Systems
 19, bd Bidault
 77183 CROISSY-BEAUBOURG • FRANCE
 Tel: +33 (0)1 60 37 01 00 • Fax: +33 (0)1 64 11 37 55
 Email: info@cedip-infrared.com



www.cedip-infrared.com