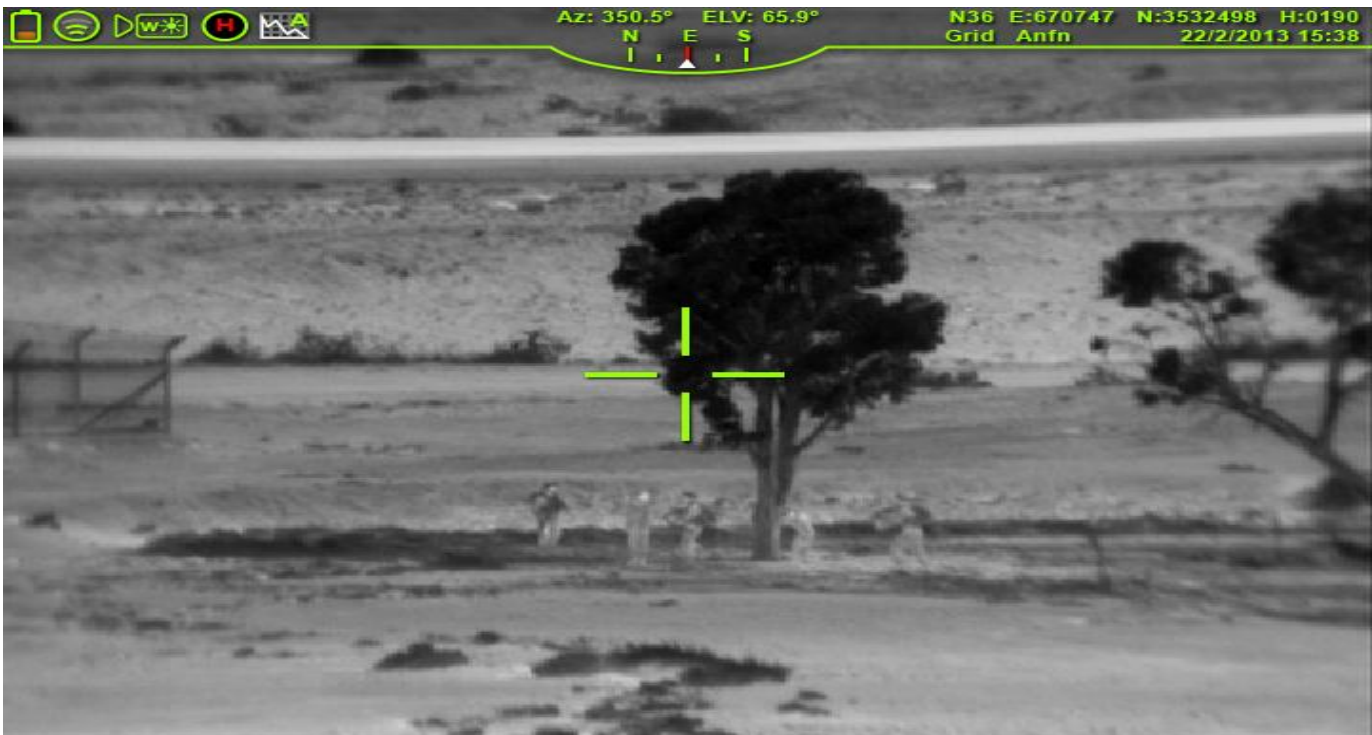
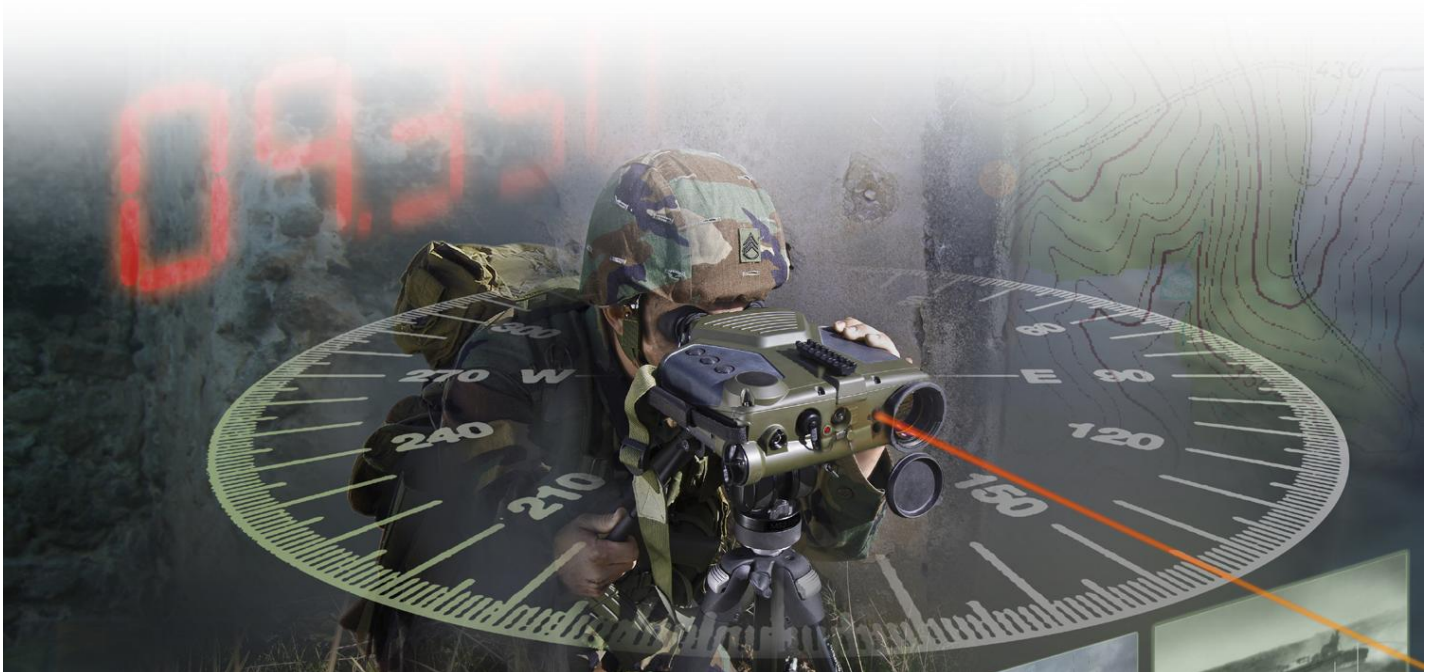


CORAL CR II

Advanced Hand-Held 3-5 μ m Lightweight Thermal Imaging Camera with Continuous Optical Zoom and Target Acquisition Capabilities



The new generation of Elbit Systems Electro-optics Elop's CORAL Family, CORAL-CR II is a long-range day and night observation and target acquisition binocular. The system incorporates a GPS, day and night channels, laser range finder and a compass, enabling the operator to acquire target coordinates. Advanced optics combined with continuous optical zoom allows quick transition between wide and narrow FOV, enabling the operator to choose the optimal field of view for the operational scenario. For fire engagement applications, the system can be integrated with our Mini or Micro Atlas for enhanced accuracy.

Main Advantages & Features

- User friendly operation based on android application
- Continuous IR optical zoom
- Advanced high resolution detector 640 x 512
- Low power consumption: >7Hrs
- Rapid operational readiness: <4min cool down time
- Mission intelligence memory storage: Targets video, image and data
- Integrated dual FOV day channels
- Integral eyesafe LRF, DMC and GPS
- Real-time target acquisition and target coordinates calculation
- Adjustable binocular viewer
- Advanced high resolution color OLED display
- Image stabilization
- Interface to C4I BMS

Applications

- Reconnaissance and target acquisition
- Forward observers
- Artillery and FAC
- Infantry commanders
- Special forces

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Options

- Add-on X2 or X3 telescope
- Integral laser pointer
- Remote control device (Atris)
- Accurate Goniometer (Mini Atlas)



Technical Data

Thermal Imager:

| | |
|-----------------|----------------------------|
| Spectral band | 3-5 μ m (MWIR) |
| IR detector | High resolution 640 x 512 |
| Fields of View | Continuous x5 optical zoom |
| – Minimum NFOV | 2.5° x 2.0° |
| – Maximum WFOV | 12.5° x 10.0° |
| Electronic zoom | up to X4 |
| Cool down time | < 4 minutes |

Day CCD channel

| | |
|--------------|--|
| – Narrow FOV | Color high resolution CCD, 2.5° x 1.9° |
| – Wide FOV | Monochrome high resolution CCD, 10°x7.5° |

Laser Rangefinder

| | |
|----------------|------------------------------|
| Lasing range | Eyesafe, solid state > 12 km |
| Lasing range | > 6 km (NATO Target) |
| Range accuracy | ±5 m |

Digital Magnetic Compass

| | |
|------------------|------------|
| Azimuth accuracy | 1 deg. RMS |
|------------------|------------|

GPS:

| | |
|-----------------------|------------------------|
| Integral GPS receiver | Interface for ext. GPS |
|-----------------------|------------------------|

Video recording time Image capturing Power source options

| |
|---|
| 8 Hours |
| 1000 images |
| Rechargeable or external AC/DC or DC/DC |

Operation time (one battery)

| |
|-----------|
| > 7 Hours |
|-----------|

Weight Interface Video output

| |
|-------------------------|
| <3.7 kg (incl. battery) |
| RS422, Ethernet, USB |
| Analog: NTSC / PAL |
| Digital: HDMI |

Environmental conditions Operating temperature

| |
|------------------|
| IAW MIL-STD-810F |
| -32°C to +55°C |

Range Performance:

