



Night/Day Target Acquisition Binocular

N/CROS is a compact, lightweight, image intensifier-based night vision target acquisition binocular capable of measuring range to targets from 30-2000m.

Incorporating a GPS, electronic digital magnetic compass and inclinometer, this eye-safe device independently obtains self-position and uses this data to calculate and display target coordinates in two high-resolution eyepieces. An external interface enables the easy transfer of target data to friendly force C² systems.

Using its optional add-on ORYOM Day Channel, N/CROS can support daytime operations using the same night-mode controls and functions.

- GPS-based coordinates of remote acquired targets displayed instantly in the user's eyepieces.
- Ideal for infantry units, special forces, forward observers, aircraft fire support and reconnaissance patrols.

- »» Integrated Digital Magnetic Compass (DMC)
- »» Integrated GPS
- »» Coordinate display in 3D UTM format
- »» Magnetic northing
- »» Memory handling for up to 10 targets
- »» Auto image intensifier shut-down features
- »» Ruggedized metal enclosure
- »» Hand-held or tripod-mounted
- »» Options:
 - Quick-mount add-on day channel (ORYOM)
 - Class 3b IR laser pointer for force signalling

N/CROS



Technical Characteristics

Optics & Sensors

| | |
|----------------------------|------------------------------|
| Image Intensifier | 18mm, all generations |
| Magnification | X3 |
| Field of view | 13° |
| Diopter adjustment | -6 to +2 |
| Resolution (system) | 3.3 lp/mrad (tube-dependent) |

Laser Rangefinder

| | |
|--------------------------|---------------------------|
| Measurement Range | 30m to 2,000m |
| Accuracy | 2m - 5m (range-dependent) |
| Eye Safety | Class 1 |
| Laser Wavelength | 905 nm |

GPS

| | |
|----------------|----------|
| Antenna | Built-in |
|----------------|----------|

Inclinometer

| | |
|-----------------|------|
| Accuracy | < 1° |
|-----------------|------|

Electrical

| | |
|--------------------------|---|
| Power source | Six 1.5V "AA" size battery (alkaline) |
| Operating time | More than 36 hours |
| High light sensor | Power shut-off to II when exposed to high ambient light |

Physical

| | |
|-------------------|----------------------------|
| Dimensions | 280 x 235 x 135 mm (LxWxH) |
| Weight | 1.7 kg |

Communication

| | |
|------------------|--------------------------------|
| Interface | Serial Port (built-in), RS-232 |
|------------------|--------------------------------|

Environmental

Complies with MIL-STD-810

Options

Add-On ORYOM Day Channel

| | |
|----------------------|----|
| Magnification | x3 |
|----------------------|----|

IR Laser Pointer

| | |
|------------------------|-------------------|
| Power Output | 15 mW max |
| Wavelength | 830 nm |
| Eye Safety | 3b |
| Repetition Rate | Flashing at 5 pps |



**Optional Add-On
ORYOM Day Channel**



**Azimuth, Range
& Elevation Mode**



GPS Mode

N/CROS Displays



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Specifications subject to change at any time

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The manufacturer has a policy of continuous improvement and reserves the right to make changes without prior notice 10/08