

## **RANGER X5 and RANGER X3**

### **Night Vision Devices**

#### **Best seller products for 2009**



### **RANGER X5 and Ranger X3 Gen1 Night Vision Monocular- waterproof**

The RANGER x5 and Ranger X3 Gen1 Night Vision Monocular are the newest Technology in Night Vision Devices. Amazing great observation at medium and long distance ranges of 200-400 meters. It suited for harsh field conditions such as hunting, fishing, and hiking as well as for nature observation purposes.

The units have 5x and x3 magnification lenses and an objective lens aperture of 44mm and 32mm. Fully multi-coated optics decreases glare and improves light transmission providing excellent viewing experience. The RANGER x5 and x3 are small enough to fit in the palm of hand, pocket or backpack. Wide field of view of about 40 meters at the observation distance of 200-400 meters, perfectly describes the RANGERS as a monocular ideally suited for observing moving objects.

The very powerful built-in IR illuminator enables clear viewing in no ambient light conditions at the range up to 50-90 meters. The ergonomically designed rubberized durable body is surprisingly comfortable, making usage experience that much more enjoyable.

To enhance the unit durability, the most heavily used parts of the units such as the eyepiece, the objective lens housing and the rings are made of aircraft aluminum compared to plastics used by most competitors.

Working time on one CR-123 lithium battery is not less than 50 hours, which is one of the best in the industry in its class. In addition, the enhanced electric circuit triggers the unit shut down when the battery is approaching near complete exhaustion in comparison to other units, where the brightness is gradually decreasing with the user not able to predict for how long the unit will last. This ability allows the user to detect the low battery ahead of the time and not run out of the power at the most inconvenient moment.

The ocular resolution of up to 40 lp/mm is even across the field view and has a low level of aberration. This is achieved by NIGHT FORCE using five lenses vs. three or maximum four used by competitors. This enables comfortable viewing experience due to lack of the fish bowl effect. The enjoyable experience by the customers decreases the number of returns.

## FEATURES

- Lifetime warranty
- Lightweight
- Rubber armored grip
- New ergonomic attractive design and styling
- Selected Grade A image intensifier tubes
- User friendly - all controls operated by two buttons
- Integrated IR on/off and Unit on/off LED indicators
- Built-in powerful (25mW) hazard free IR illuminator
- Comes with a nice soft fanny pack

## SPECIFICATIONS

### GENERAL

Magnification, x	X5 , X3
Lens aperture, mm	44 , 32mm
Lens system	50mmF/1.2, 42mmF/1.2
Field of view, deg	20.8°
Focus range, yards	3 to infinity
Eye relief distance, mm	15
Diopter setting, D	+4, -4
Overall dimensions, in/mm	180x78x60 , 150X75X60
Weight, oz/g	430gr, 320gr
Power supply	CR-123 Lithium battery (one)/3V
Estimated battery life w/out IR under 23°C, hour	up to 50

### GEN I IMAGE INTENSIFIER TUBE

Classification	EP-33UD Select
Input window material/ operating diameter, m	Glass / 12
Conversion coefficient, typical	150
Resolution, typical, lp/mm	36
Photocathode sensitivity, typical, $\mu\text{A}/\text{lm}$	250
Tube reliability standard, min, hour	1500
Keep time, typical, year	10
Warranty, year	3

### EFFECTIVE DISTANCE

Detection range for an object 1.8m tall, approx., - full moon (0.05 lux) - half moon	up to 400 up to 200
Recognition range for an object 1.8m tall, approx - full moon (0.05 lux) - half moon	up to 250 up to 150
25mW IR illuminator, approx., m	up to 90

## ENVIRONMENTAL DATA

Operating temperature, °F/°C	-22° to +113°/ -30° to +45°
Recommended storage temperature, °F/°C	32° to +140°/ 0° to +60°
Water intrusion	Meets IPX4 rating
Humidity, %	up to 93%

### **NIGHT FORCE RANGER X5 and RANGER X3 standard kit includes:**

- RANGER Night Vision Monocular
- Professional waterproof pack
- Multi language Instruction manual
- Silicon Gel
- Warranty documents for 3-years
- Night Force new packing gift box

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