

## 6. Binoculars and accessories

7×50 binoculars	1 pc
Carrying strap	1 pc
Eyepiece case	1 pc
Lens cleaning cloth	1 pc
Instructions	1 copy
Soft case with carrying strap	1 pc
Objective Lens Cap	2 pc

## 7. Storage and maintenance

Binoculars are a precision optical instrument. They should be carefully handled and maintained in order to keep them in good working order.

### 7.1 General Maintenance

7.1.1 Lenses: Always clean the lenses after each use and before you replace the binoculars in the carry case. After each use, brush any dust or dirt from the lenses. After brushing, gently wipe each of the lenses with the included lens cleaning cloth. Never touch the lenses with your body oil will get on the lenses and possibly damage them. Never use anything to wipe your lenses except special optical cloths. Always keep your optical cloth in the binocular case for easy access for cleaning.

7.1.2 Although the eyepieces are made to turn for individual eye diopter adjustments, do not turn them beyond the factory set stop. Forcing it beyond this point will damage the internal optics and make the binoculars unviewable.

7.1.3 After using, always remember to turn the diopter adjustment to its "0" position to avoid damaging the optical system.

7.1.4 Avoid any extreme shaking or dropping the binoculars. This may damage the internal optics and prism. Store the binoculars in a dry and well-ventilated place.

## 1. General Overview

### 1.1 Product Description

These 7×50 binoculars are a floating model with illuminated compass. They have two ringing bolts. The eyepiece has Reticle Scale and the Calculator Dial that can be used to estimate your distance from an object if its size is known, or vice versa. The optics are precision crafted for brightness and clarity of image.

### 1.2 Model 7×50 with compass

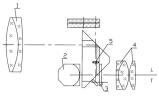


Fig. 1

## 2. Technical Specification

### 2.1 Optical Performance

#### Magnum Power

Field of view at 7×: (132m/1000m)  
Exit pupil diameter: 6.8 mm  
Exit pupil distance: 23 mm (Long eye relief for eyeglass wearers)  
Diopter adjusting range: -5 → +5 DIOPTER  
Interpupillary distance: 55 ~ 72mm  
Resolution: < 5"

### 2.2 Size and Weight

Size (width × height): 200 × 80 × 150mm

Weight: Binoculars: 930g (2.06 lbs)

Complete product: 912 kg (2.01 lbs.)

### 2.3 Construction Specifications

#### 3.1 Optical system

#### 3.1.1 Basic binocular construction

Basic binocular optical construction, as shown in figure 1, consists of (1) the objective lens, (2) the prism system, (3) the reticle and (4) the eyepiece. Reticle (5) and compass projective systems (6) are built into the right half of the binoculars body.

### 3.2 How Binoculars Work (See Fig. 3)

The binoculars consist of two identical telescopes. Each half consists of the following:

1. Eyepiece
2. Main binocular body housing the Prism assembly
3. Objective lens
4. Connecting shaft
5. Interpupillary socket (55mm-72mm)
6. Diopter adjustment ring with index marks (each graduation = 1 diopter)
7. Rubber fold-down eyecups
8. Calculator dial
9. Compass illuminator window
10. Compass Illuminator On/Off switch
11. Battery compartment
12. Dust cover for objective lens
13. Dust cover for eyepieces

The graduations of the compass need to be illuminated for easy viewing when there is not sufficient daylight to illuminate the compass dial. (Do not use the battery operated internal illuminating system when the outside viewing conditions are bright enough to see the compass dial and marking clearly.) Pressing the illuminator button will illuminate the compass scale in red.

### 4.1 Charging the batteries

The battery for the compass will be recharged if an internal lighting system has been used for long periods. Batteries can become weak if not used for an extended period of time. If the light becomes dim, open the battery cover and replace with fresh batteries.

Batteries are included and pre-installed in your binoculars. When it becomes necessary to replace them, unscrew the battery cover with a coin or screwdriver and replace with the same type. Be sure to install the new batteries with the positive (+) terminal facing up. Insert the batteries into the battery compartment with both batteries. Screw the battery cover back on tightly and press the compass illuminator button to test the light. A glow should be visible around the compass (you may need to cover the right objective lens if they are outside in bright light).

Please note: The two batteries should be replaced at the same time. The batteries should be taken out if the binoculars will not be used for a long time. Batteries left in the binoculars for extended periods of time without being used may leak and cause damage to the binoculars.

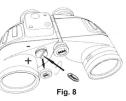


Fig. 8

### 5. Tripod Mounting

A threaded socket for a tripod attachment is located at the base of the binoculars hinge (fig. 1). Insert a binocular tripod adapter, and then tighten the tripod screw to the base of the adapter.



Fig. 9

## 4. How to use the binoculars

### 4.1 How to use the binoculars

#### 4.1.1 How to use the binoculars

When you first receive your binoculars, it is important to clean the lenses and familiarize yourself with the basic operation. To do this, follow the steps below:

#### 4.1.2 How to use the binoculars

Once you have cleaned the lenses, it is time to familiarize yourself with the basic operation. To do this, follow the steps below:

#### 4.1.3 How to use the binoculars

Now that you have cleaned the lenses and familiarized yourself with the basic operation, it is time to learn how to use the binoculars effectively. To do this, follow the steps below:

#### 4.1.4 How to use the binoculars

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