

**PENTAX**

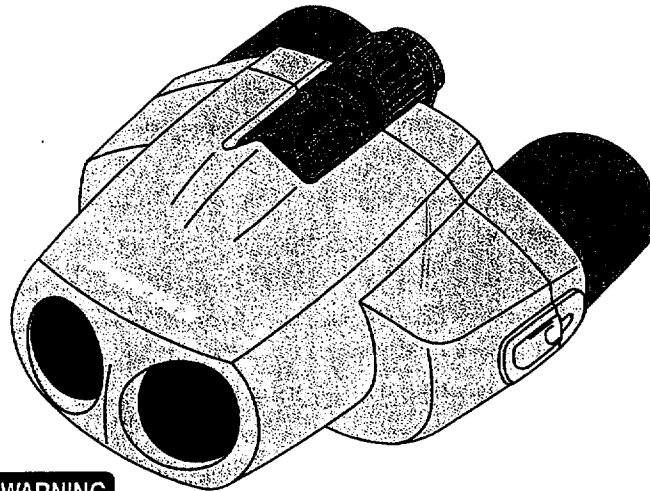
**BINOCULARS  
FERNGLÄSER  
JUMELLES  
BINOCOLI  
PRISMÁTICOS**

双筒望远镜  
双眼鏡

OWNER'S MANUAL  
BEDIENUNGSANLEITUNG  
MANUEL D'UTILISATION  
ISTRUZIONI  
MANUAL DE INSTRUCCIONES

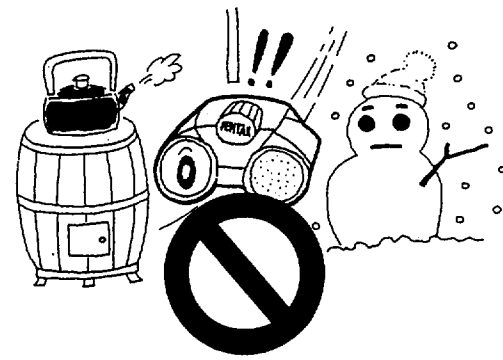
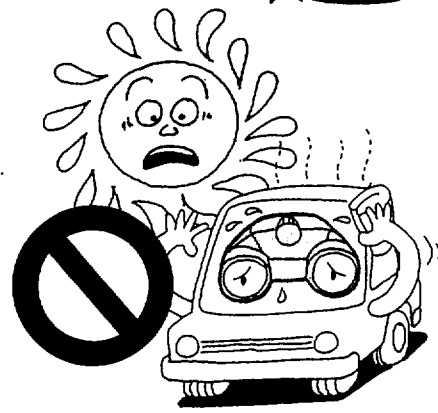
使用説明書  
使用説明書

**ZOOM**  
**8-20x24 UCF<sub>ZOOM</sub>**



- **WARNINGS**  
Never attempt to look into the sun with binoculars.
- **WARNUNG**  
Blicken Sie nie mit einem Fernglas in die Sonne.
- **ATTENTION**  
N'observez jamais le soleil avec vos jumelles.
- **AVVERTENZE**  
Nunca intente mirar al sol con prismáticos.
- **ATENCION**  
Non guardate il sole attraverso il binocold.
- **警告**  
切勿使用望遠鏡觀望太陽。
- **警告**  
双眼鏡で太陽を絶対見ないで下さい。

WORLD  
ENVIRONMENT  
PARTNER 1995 



**Features**

Pentax 8-20x24 UCF (Uni-barrel Center Focusing) zoom binoculars cover a wide magnification range from 8X to 20X, offering excellent adaptability for virtually all viewing situations and provide clear and sharp images even at the edges of the field of vision. The binoculars employ a centralized control system with zoom, focus, and diopter adjusting rings positioned on the center axis to dramatically improve ease of operation and control. This comprehensive zoom range combined with centralized control system means that the Pentax 8-20x24 UCF zoom binoculars are unparalleled in ease-of-use and versatility.

**⚠ WARNINGS**

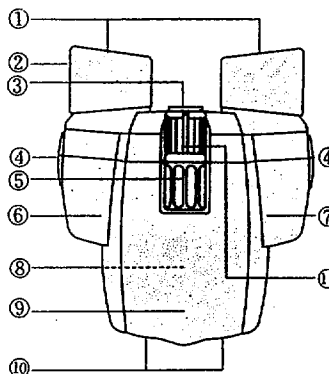
1. To avoid serious eye damage, NEVER look at the sun using the binoculars. (Otherwise, serious damage to the retina will occur, including loss of eyesight.)
2. Do not leave the binoculars in direct sunlight. (Leaving the binoculars exposed to direct sunlight may cause a fire.)

**⚠ Safety Precautions**

1. Do not use the binoculars while walking. Otherwise, you could bump into someone or something or fall and hurt yourself or others.
2. Avoid pinching your fingers between the binoculars when adjusting the eyepiece width of the binoculars. In particular, take care that children do not hurt themselves when handling the binoculars.
3. Using the binoculars for a long time repeatedly may cause inflammation of the skin around the eyes. Consult a doctor if any symptoms are noticed.
4. Do not swing the binoculars by the neck strap, as this could cause injuries.
5. Be careful with the vinyl bag. Keep the vinyl bag away from children or infants to prevent accidental suffocation.

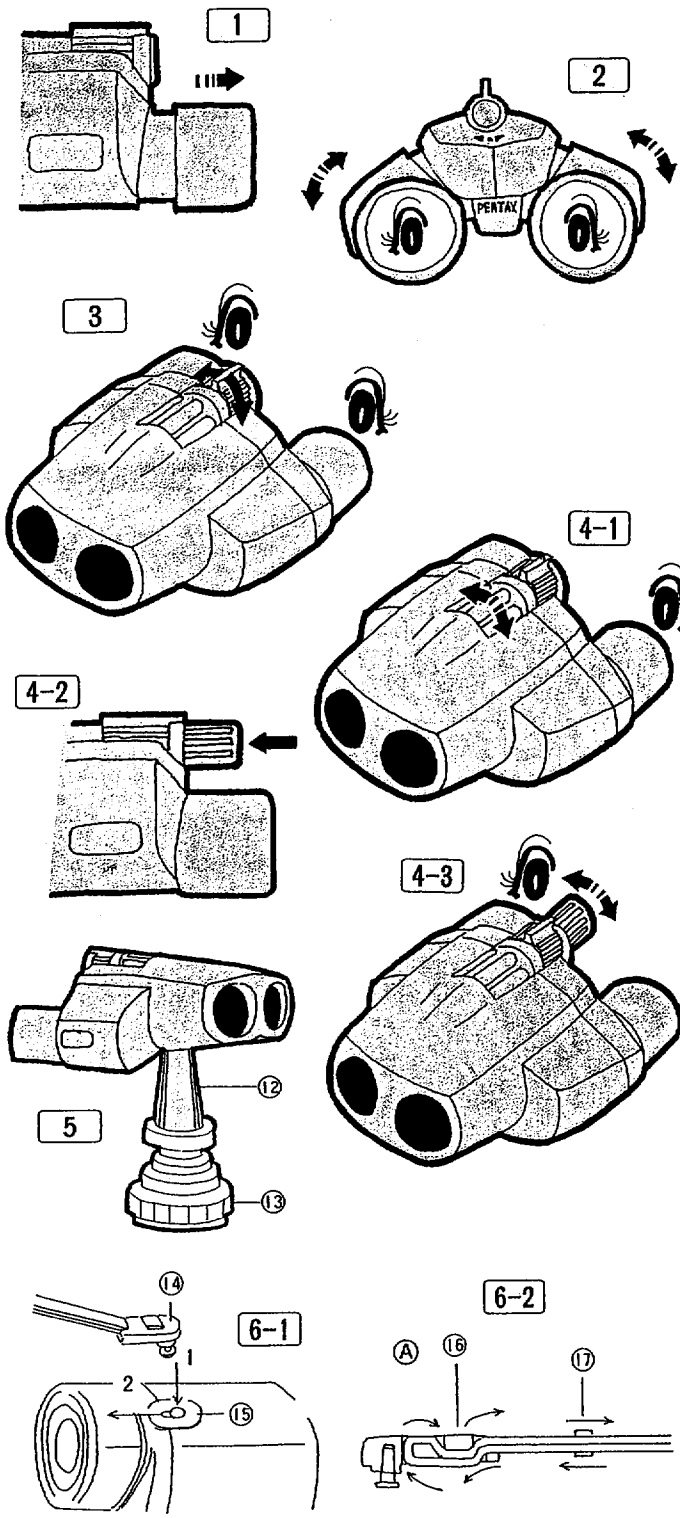
**Handling Precautions**

1. Do not apply excessive force or pressure when operating the focus wheel, zoom ring, the diopter adjusting ring, or when mounting the binoculars on a tripod. (Please use the optional Tripod Adapter U to mount the binoculars on a tripod.)
2. Be careful not to drop the binoculars or subject them to strong vibration, impact or pressure.
3. Never expose the binoculars to high temperature (over 60 degrees Centigrade, or 140 degrees Fahrenheit). Avoid leaving the binoculars for extended periods of time in hot humid places such as in a car parked in the sun or near a heater, as this will result in deformation.
4. Be careful when carrying the binoculars between places having different temperatures. Condensation on the interior and exterior of the binoculars may be extremely harmful as it can cause rust. Further, if the binoculars are taken from a warm temperature to a subfreezing one or vice versa, the formation of icelets may cause damage. In such a case, cover them up so that any changes in temperature will be as gradual as possible. After the temperature difference is minimized, uncover them.
5. Take reasonable care to prevent exposure to dirt, mud, sand, moisture, toxic gas, water, salt water or any other substance which may penetrate the inside of the binoculars. These substances may cause internal damage or render the binoculars inoperable.
6. After use: If water splashes on the binoculars, allow them to dry. Then, wipe off any dirt on the binoculars with a clean, soft, dry cloth. Keep in mind that the binoculars are not water-resistant. Never use solvents such as paint thinner, alcohol or benzene to clean the binoculars. If the lens surface is stained, wipe off any dirt with gauze or lens cleaning paper moistened with lens cleaner.
7. Do not store the binoculars in a closet with mothballs or in a place where chemicals are handled. Store the binoculars in a well-ventilated place to prevent fungus growth.

**Names of Parts**

- ① Eyepiece Lens
- ② Eyepiece Ring
- ③ Diopter Adjusting Ring (fully-retracted)
- ④ Neck Strap Hook
- ⑤ Central Focusing Wheel
- ⑥ Right Barrel
- ⑦ Left Barrel
- ⑧ Tripod Socket (bottom)
- ⑨ Uni-Barrel
- ⑩ Objective Lens
- ⑪ Zoom ring

How to Use



1. Eyepiece Rings

For easy viewing, the binoculars are usually operated with the eyepiece rings pulled out. When wearing glasses, push back the eyepiece ring to the original position. When pulling out the eyepiece ring, do not pull too strong. Do not attempt to rotate it.

2. Adjusting the Eyepiece Width

While looking at a distant object through both the right and left eyepiece lenses, adjust the barrels so that eyepieces are comfortably in front of your eyes.

3. Zooming

Rotating the zoom ring to the left decreases magnification. Rotating the ring to the right increases magnification.

4. Adjusting Diopter

Higher resolution can be obtained when adjusting the diopter control if this adjustment is made at the highest (20X) magnification. While looking through the left eyepiece lens with the left eye only, turn the central focusing wheel to focus on a distant object sharply. (See 4-1.) Next, press the diopter adjusting ring to set it to the diopter adjustment position (as shown in 4-2.) While looking through the right eyepiece lens with the right eye, turn the diopter adjusting ring until the same object comes into sharp focus. (See 4-3.) After focusing is completed, press in the diopter adjusting ring to the original, fully-retracted position to prevent it from being turned. To view objects at different distances, focus by just turning the central focusing wheel to the right or left.

5. Mounting Binoculars on Tripod

To mount the binoculars on a tripod, screw the optional Tripod Adapter U into the tripod socket and attach the binoculars on to the tripod.

6. Attaching Neck Strap

To attach the neck strap to the binoculars, put the tip of the strap tuck in the strap hook, and slide the strap tuck to the eyepiece lens side while pressing it until it clicks. (See 6-1.) Check to see if the strap is securely attached to the binoculars by pulling the strap. The strap length can be adjusted according to your preference. It is best to provide enough slack in the strap for easy adjustment. (See 6-2.) CAUTION: Do not pull the strap in the direction perpendicular to the top of the uni-barrel.

- Ⓚ Pentax Tripod Adapter U
- Ⓛ Tripod
- Ⓜ Strap Tack
- Ⓨ Strap Hook
- Ⓐ How to pass the strap
- Ⓟ Strap Clasp
- Ⓡ Belt Ring

## Specifications

Models	8-20x24UCF Zoom
Features	
Type	Porro prism, center Focusing Center Zooming (Linked-dual-Axis)
Magnification	8~20X
Effective diameter of objective lens	24mm
Real field of view	5.3' (8X) ~2.5' (20X)
Field of view at 1000m	93m(8X)~44m(20X)
Field of view at 1000yards	279ft(8X)~132ft(20X)
Exit pupil aperture	3mm(8X)~1.2mm(20X)
Relative brightness	9.0(8X)~1.4(20X)
Eye relief	15mm(20X)
Focusing range	About 1.9m to infinity About 6.2 ft to infinity
Eye width (ocular distance) adjustable range	56mm to 73mm 2.2 to 2.9 in.
Height & width	134x122mm 5.3x4.8 in.
Thickness	66mm 2.6 in.
Weight	485g 17.1 oz.
Accessories	Eyepiece Lens cap, Case, Neck strap



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