



Vixen Co., Ltd. 5-17-3 Higashi Itokorozawa, Tokorozawa, Saitama 359-0021, Japan
Phone +81-4-2944-4141(International)
<https://www.vixen.co.jp> F a x +81-4-2944-9722(International)

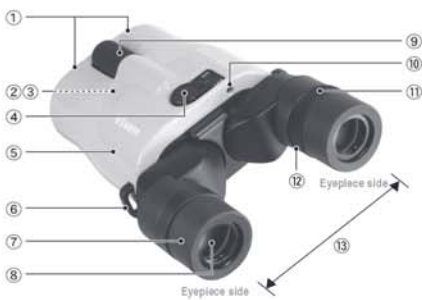
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INSTRUCTION MANUAL

This instruction manual is in common between ATERA H12x30 and ATERA H10x21 Binoculars with Vibration-Canceller. It describes the ATERA H12x30 mainly, but the same usage is applied for the ATERA H10x21.

PART NAME / CONTENTS

The picture is H12x30 model.



- ①...Objective Lens (Front)
- ②...Battery Cap (Back)
- ③...Battery Compartment (Back)
- ④...Power Switch
- ⑤...Body
- ⑥...Strap Eyelet
- ⑦...Twist-up Rubber Eyecup (H12x30)
Immovable Rubber Eyecup (H10x21)
- ⑧...Eyepiece (Rear)
- ⑨...Focusing Wheel
- ⑩...Power Indicator
- ⑪...Diopter Ring
- ⑫...Diopter Adjustment Scale (Back)
- ⑬...Eyepiece Unit (Interpupillary Distance Adjust)



- ①...ATERA Binoculars
- ②...Soft Case
- ③...Neck Strap
- ④...Two AAA Batteries (Checking purpose only)
- ⑤...Instruction Manual (Combined with Warranty)

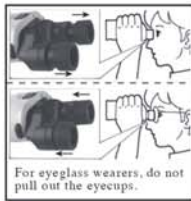


Figure 7

HOW TO USE ③

- Remove the eyepiece caps from the unit. When using the unit with your eyeglasses worn, follow the instructions below. The fully field of view will be obtained even if you use eyeglasses to look through.
Twist-up Rubber Eyecup (Available for H12x30 only.)
When look through the unit with eyeglasses worn, leave the eyecup at the lowest position. When using the unit with the naked eye or wearing contact lens, pull up the eyecup to secure the field of view. (Ref. Figure 7)
When storing the unit in the carry case, put back the eyecups to the lowest position.

Turn on the power switch. The vibration canceller starts activating and the green power indicator will light.

Note
The unit may buzz and can slightly vibrate as you turn on the power, but it is not a vibration canceller malfunction. The vibration ceases when the power switch is securely set in place.

Auto Power off
The vibration cancellation function stops automatically (and the power indicator goes off) in 5 minutes after turning on the unit. If you restart the vibration canceller, turn off the unit and then turn on again.

- While looking through the binocular with both eyes, adjust the interpupillary distance between the space of the eyepieces so that the field of view can be seen as one circle. Be sure to make the adjustments with a distant object.
Hold the part of the eyepieces with both hands when you adjust the interpupillary distance. It allows you to make the adjustments smooth. (Ref. Figure 8)
Interpupillary Distance Adjustments
This is to adjust the distance between the two eyepieces to fit your eyes. Inadequate interpupillary distance may result in eyestrain.

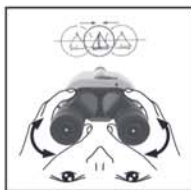


Figure 8

HOW TO USE ⑤

- Attaching the straps**
Attach the supplied strap to the strap eyelet as illustrated. (Ref. Figure 12)
- How to put the strap through the strap ring:**
As shown in the diagram, straighten and press down the tip of the strap with fingers. (Ref. Figure 13)
Next, move the strap ring so that the tip of the strap goes through the strap ring.



Figure 12

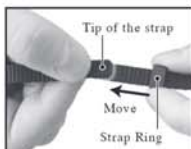


Figure 13

ABOUT THE VIBRATION CANCELLATION FUNCTION

This binocular employs the vibration cancellation function that is called gimbal's control system. If sudden movement (such as moving downward) the binocular suddenly from its lateral position) happens during the vibration canceller is in operation, it may spoil functioning correctly the vibration canceller. If this is the case, turn off the power and then turn on again.

HOW TO USE ①



Figure 1



Figure 4

HOW TO USE ②

- Insert the Batteries**
Use the supplied two AAA batteries. (Provides for checking purpose only)
- Confirm the power switch is turned to the OFF position. Pick up the both sides of the battery cap by fingers to open as shown in the photo. (Ref. Figure 1)
 - With checking the polarity of the batteries, insert the batteries into the battery compartment. (Ref. Figure 2)
 - Replace the battery cap as it was placed. (Ref. Figure 3)



Figure 2



Figure 5



Figure 3



Figure 6

- Make sure that the power switch is turned to the ON position if you turn on the power. (Ref. Figure 4)
The power indicator will light in green. (Ref. Figure 5)
 - Turn the power switch to the OFF position if you don't use the unit. (Ref. Figure 6)
- Note:**
If the power indicator (green light) blinks, the batteries are being exhausted. If this is the case, the vibration canceller may not work properly. Replace the batteries with fresh ones.

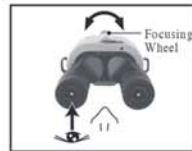


Figure 9

HOW TO USE ④

- For diopter adjustments, find a distant object to look through. While looking through the left eyepiece with the left eye, focus on the object by turning the focusing wheel. (Ref. Figure 9)
- Then, while looking through the right eyepiece with the right eye, focus on the same object by turning the diopter ring. It is convenient for you to remember the position of the diopter ring scale so that you can set the diopter ring swiftly without repeating the above procedure every time you use the binocular. (Ref. Figure 10)

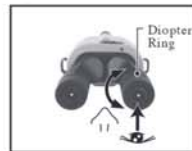


Figure 10

Once you have brought the unit into focus with both eyes, you use the focusing wheel only to focus on different objects. (Ref. Figure 11)

Diopter Adjustment

This is for those who have different eyesight in right and left eyes. The diopter ring can compensate for the difference in the right and left eyesight.



Figure 11

SPECIFICATIONS

Model	H12x30	H10x21	Model	H12x30	H10x21
Magnification	12x	10x	Eye Relief	17.5mm	16mm
Objective Aperture	30mm	21mm	Near Focus	About 2.5m	About 3m
Prism	BK7 (Roof prism)		Inter Pupillary Distance	55 - 75mm	
	BaK4 (subsidiary prism)		Anti-Vibration	2 axis gimbal control vibration canceller with automatic power off (after 5 minutes of no motion)	
Coatings	Fully multicoated optics		Vibration Correction Angle	About +/-3degrees	
	Phase coatings		Battery Duration	About 12hours (at temperature of 20degree-C with use of two fresh AAA batteries)	
	High reflectivity cating *1				
Real Field of View	4.2°degrees	4.8°degrees	Waterproofness	No	
Apparent Field *2	47.5°degrees	45.5°degrees	Dimensions	14.9x10.8x6.2cm	13.0x10.7x6.3cm
Field at 1000m	73m	84m	Weight	42g (without battery)	35g (without battery)
Exit Pupil	2.5mm	2.1mm	Tripod Adapter Socket	No available	
Brightness	6.3	4.4			

*1 High Reflectivity Coating : Dielectric coatings are applied to maximize the reflection of roof prisms to produce clearer and brighter views. Specifications are subject to change without prior notice

*2 Calculated according to the standard JIS B7157 : 2003