





Weems BINOCULARS

Good quality marine binoculars are a critical navigation tool that no boat should be without. The key factors to consider when selecting marine binoculars are the quality of optics, waterproof construction, and comfort in your hands. The following chart provides an at-a-glance comparison of the important features of the Weems & Plath all-weather binoculars.

Item	Eye relief (mm)	Exit Pupil (mm)	purge gas	Field at 1000 yds	Focus	LENS coating	Compass	Reticle	Prism	Floating	Weight (oz)	Construction
BN50 PRO 7x50 	23	7.14	Ar	430'	IND	FMC	No	No	PORRO BAK-4	No	51	Magnesium alloy body
BN40 CLASSIC 7x50 	20	7.1	Ar	413'	IND	FMC	No	No	PORRO BAK-4	No	40.5	Magnesium alloy body
BN20C EXPLORER 7x50 	23	7.1	Ar	396'	IND	FMC	Yes	Yes	PORRO BAK-4	Yes	29.25	Polycarbonate
BN10 SPORT 7x50 	24	7.1	Ar	367'	CTR	FMC	No	No	PORRO BAK-4	No	33.5	Aluminum alloy

Binocular Accessories (included):



Lens cloth



Lens covers



Binocular case



Neck strap



Two LR44 batteries (if required)

How to use your binoculars:

1. How to Adjust the Interpupillary distance (IPD)

You must first fit the binocular to your eye width distance (IPD). IPD stands for 'interpupillary distance' or the distance between the pupils of your eyes. As this distance is different for each person, the binocular can easily be adjusted to fit by opening or closing the hinge. Our binoculars include an IPD scale in millimeters on the hinge mechanism. IPD is set correctly by placing both hands on the lens barrels and then opening the hinge completely. Next, observe a distant object while folding them shut until you view a perfect circle in the lens. Note: the image will not be clear. You will adjust for clarity in the next step. Take note of the correct measurement on the millimeter scale for your eye width distance.

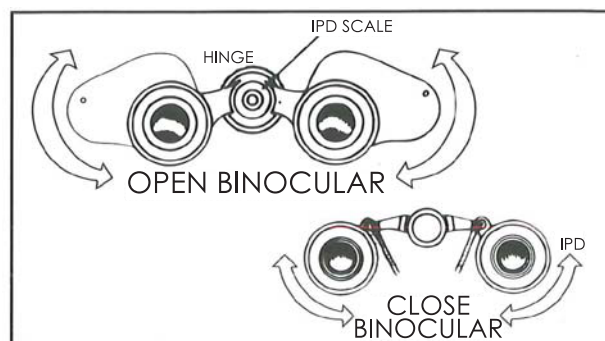
2. How to Focus

Binoculars should be focused for each user.

There are two focusing systems for Weems & Plath binoculars:

Center Focus: (BN10) Center focus system binoculars allow you to change focus quickly between objects near and far by turning the center focus wheel.

To focus using center focus system:



- Close your right eye and look through the left side of the binocular. Focus by turning the center focus wheel until the image is clear.
- Close your left eye and look only through the right side of the binocular and turn the right eyepiece focus ring until the image is clear.
- Now, your binoculars should be adjusted for your eyes. Now you can focus for both far and near objects by simply turning the center focus wheel.

Individual Focus: (BN40, BN50, BN20C) The advantage of individual focus binoculars is that you can pre-focus the binoculars, allowing you to see objects in low light without further adjustments for distances of 40 yards to infinity. To focus using individual focus system: cover one lens or close one eye at a time (it is better to cover a lens and leave both eyes open) and rotate the opposite eye piece focusing (diopter) ring until the image is sharp, then repeat for the other side.

3. How to use with eye glasses:

Fold down rubber fold-down cups for use with eye glasses in order to obtain full image view. **(BN20C, BN40, BN50)**

Twist each eye-piece down for use with eye glasses. **(BN10)**

4. How to use the compass: (BN20C)

A compass bearing can be measured using the built-in compass in the right half of the binocular body. It shows the bearing to an object from the observer. Each graduation of the compass equals one degree of angle. When the object lies north the compass shows 0° . It will increase as you turn clockwise. 90° means the object lies east of you. 180° means the object is south and 270° means it is west.

In order to ensure precise angle measurements, keep the binoculars horizontal and level when reading the compass. The object must lie in the center of the reticle.

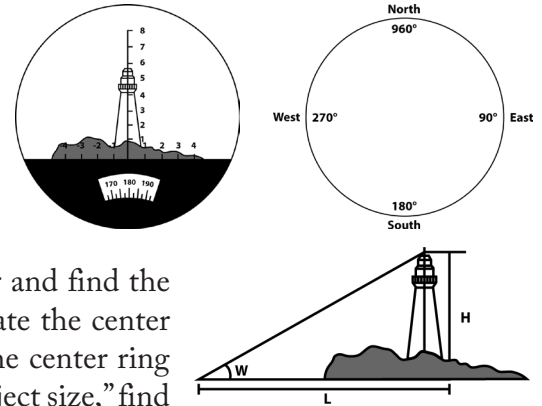
The binocular compass is illuminated by holding the power button down while taking a reading at night or in low light conditions. (Be sure batteries are installed [LR44]. See below.)

How to use the reticle to measure distance: (BN20C)

If you know the height of an object in meters, you can use the optical scale of your binoculars to estimate the distance to the object.

First, use your nautical chart to determine the height of the object in meters. Second, look through the binoculars and take note of the number closest to the top of the object you see in the vertical number scale. Remember this number and find the rotating ring on the slide rule on the outside of the left binocular barrel. Rotate the center ring and match this number to the arrow on the "angle" indicator. Holding the center ring stationary and looking across the ring to the middle row of numbers labeled "object size," find the known height of the object in meters. Read "Distance" to find the distance to the object in meters.

Example: A landmark on a chart is recorded as 12m tall. Looking through the binoculars, the landmark compares to 3 on the vertical number scale. Consult the rotating slide rule on the outside of the binocular and match the angle arrow indicator to 3. Find 12 on the object size scale. Read directly across to see 400 meters on the distance scale.



How to install batteries: (BN20C)

- On the front of the binoculars, unscrew the blue cap by turning it counter clockwise.
- Use a coin or large flat head screwdriver to remove the brass screw.
- Insert two LR44 batteries with the "+" side facing up.
- Close the compartment by tightening the screw and reinstalling the blue cap.

How to care for your binoculars:

To protect lenses when not in use, cover with lens covers.

To clean lenses, wipe with lens cloth that comes with binocular or use soft, lintless cloth.

Dirt and smudges can be removed with one or two drops of isopropyl alcohol on cloth.

Store binoculars in moisture-free location and never take the binoculars apart.



BN20C Battery Compartment

2 Year Warranty

Please see our website for more information and to activate your warranty.

www.Weems-Plath.com/Support