

**POPULAR
SCIENCE™**
BY  **CELESTRON®**

SKYMASTER
9X60 BINOCULAR
WITH SMARTPHONE ADAPTER AND BLUETOOTH REMOTE



INSTRUCTION MANUAL

MODEL #71023

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9X60 BINOCULAR**
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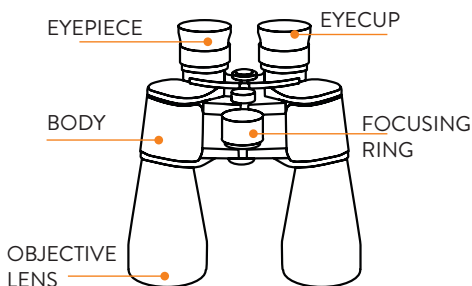
Thank you for choosing this Popular Science™ by Celestron® binocular. We hope they bring you many years of enjoyment. To maximize the use of your new binoculars, please read these instructions on use and care before using them.

ADJUSTING THE INTERPUPILLARY DISTANCE (IPD)

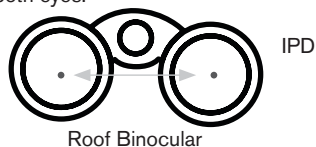
Since the distance between the eyes (specifically, the distance between the centers of the pupils) varies among individuals, the two eyepieces of the binoculars must be correctly aligned (adjusted).

This is called adjusting the interpupillary distance. To adjust this distance, using both hands, lift the binoculars up to your eyes and look through them at an object in

PARTS OF A BINOCULAR



the distance. Move the two halves of the binoculars about the hinge until you see one clear circle of image through both eyes.



SETTING THE DIOPTER COMPENSATION FOR A CENTER FOCUS BINOCULAR WITH A RIGHT OPTICAL CHANNEL DIOPTER COMPENSATION DIAL

As most people have a difference in visual acuity between their right and left eyes, modern binoculars incorporate a mechanism that allows compensation to be adjusted between the left and right optical channels so that each eye is presented with an image that is accurately focused for it. This compensation mechanism should always be set using the following procedure whenever a new user takes up a new binocular, and should be repeated if a different user changes this compensation setting or if the compensation setting is noticed by the user to no longer be appropriate for his or her own visual requirements.

NOTE: If you normally wear eyeglasses for normal daily activities (not just reading glasses but “full time” eyeglasses) it is recommended that you also wear them while using binoculars. Simply twist the binoculars’ eyecups down to their lowest position to allow the proper eye relief to be achieved while wearing the eyeglasses.

1. Pick a subject to observe approximately 50 yards or meters in the distance.
2. Cover the right objective lens with the binocular’s own objective cover or with your hand.

3. View the selected subject through the binocular as you normally would but do not attempt to focus upon it yet.
4. Keeping both eyes open, use the binoculars’ center focus dial to bring the image seen through the binocular into focus.
5. Without touching the center focus dial, uncover the right objective lens of the binocular and cover the left objective lens.
6. View the selected subject through the binocular as you normally would once again but do not touch binoculars’ center focus dial.
7. Keeping both eyes open, determine if the subject is still in clear focus. If it is not, use the binoculars’ diopter compensation dial to bring the image seen through the binocular into focus.
8. Uncover the left objective lens and view the selected subject through the binocular as you normally would. It should be clearly in focus to both eyes. If it is not, repeat this process.
9. Once the diopter compensation has been satisfactorily set for the user, the center focus dial will change the focus appropriately for the user.

If you ever notice that while using the binocular you feel a “pulling” sensation in either eye, the diopter compensation dial may have been moved. The above

procedure should be used to return it to the correct balance for your eyes.

SET THE TWIST UP RUBBER EYECUPS

Twist the rubber eyecups up if you do not wear eyeglasses or twist them down if you do wear eyeglasses to obtain the maximum field of view.

Now you are ready to use your binoculars – enjoy the view!

TRIPOD ADAPTABILITY

These binoculars feature a built-in tripod adapter fitting which is a threaded screw hole underneath a cap. To attach a binocular tripod adapter, remove the cap and then thread the screw from the binocular

tripod adapter into the threaded screw hole. The other end of the binocular tripod adapter attaches to a photographic tripod. Mounting binoculars this way allows for added stability and comfort.

CARE AND CLEANING

Binoculars do not need routine maintenance other than making sure that the objective lenses and eyepieces are kept clean. If repairs become necessary, they should be serviced by the manufacturer or a qualified binocular repair company. Collimation (optical alignment) is the biggest concern with binoculars. If your binoculars are roughly handled or dropped, there is a good chance that the collimation will be out, and they should be serviced. Dirty objectives and/or eyepieces mean less light transmission and loss of brightness as well as unsharp images. Keep your optics clean! When not using your binoculars, store them in the case provided. Avoid touching the glass surfaces, however, if fingerprints (which contain mild

acid) do get on the glass, they should be cleaned as soon as possible to avoid damaging the coatings. To clean the optical surfaces, we recommend the Celestron Lens Cleaning Kit (#93576), available at most photo or optical shops. Follow the instructions provided with the kit closely for best results. If you have a lot of dust or dirt accumulated, brush it off gently with a camel's hair brush and/or utilize a can of pressurized air before using the cleaning kit. Alternately, you could use the Celestron LensPen (#93575) made especially for cleaning binoculars. Never attempt to clean your binoculars internally or try to take them apart!

CAUTION!

Viewing the Sun may cause permanent eye damage. Do not view the Sun with your binoculars or even with the naked eye.

PROBLEMS OR REPAIR

If warranty problems arise or repairs are necessary, contact the Celestron customer service department if you live in the U.S.A. or Canada. If you live elsewhere,

please contact the Celestron dealer you purchased the binoculars from or the Celestron distributor in your country (listings are available at celestron.com).

WARRANTY

Your binocular has the Celestron Limited Lifetime Warranty for U.S.A. and Canadian customers. For complete details of eligibility and for warranty information on customers in other countries visit the Celestron website.

This product is designed and intended for use by those 14 years of age and older.

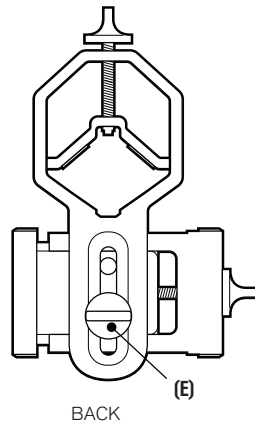
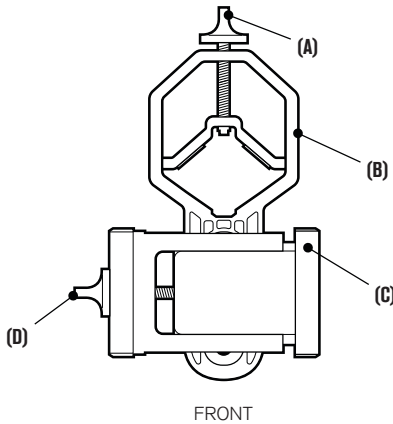
Product design and specifications are subject to change without prior notification.

For complete specifications and product information, visit celestron.com

USING THE SMARTPHONE ADAPTER



With the eyecup of the binocular twisted down to its lowest position:



1. Before attaching the adapter, look through your optic binocular, and make sure that the view is in sharp focus.
2. Open the **eyepiece clamp (B)** by loosening the **eyepiece clamp knob (A)** at the top of the eyepiece clamp.
3. Place the eyepiece clamp over the eyepiece of your optic. Tighten the eyepiece clamp knob to secure the eyepiece clamp tightly against the eyepiece.
NOTE: Make sure to mount the clamp on a section of the eyepiece barrel that does not rotate freely, such as an eye relief adjuster.
4. Loosen the **holder clamp knob (D)** until the **holder clamp (C)** is open wide enough to accommodate the width of your phone. Once the phone is in place, tighten the holder clamp knob until the phone is secured.
5. Launch the camera app on your phone. Loosen the **holder alignment knob (E)** and adjust the positioning of your phone camera so that it lines up with the eyepiece of your optic.
6. Once the camera is over the eyepiece and your camera is capturing the view through the eyepiece, carefully tighten the holder alignment knob to secure your phone in position.
7. If needed, adjust the focus on your optic again for the sharpest possible view.
8. You are now ready to take images and videos using your smartphone camera!

IMPORTANT: always be certain the eyepiece clamp knob is sufficiently loosened before attempting to remove the adapter from the binocular's eyepiece

CAUTION: Do not carry the binocular with the smartphone adapter in place as it may be accidentally bumped and fall off, potentially damaging the smartphone as a result.

NOTE: This adapter can be used with most phone cases, but the case surface **MUST** be flat so it will fit in the holder correctly. Any grips, stands, rings, or raised surfaces on the case will impede the placement of the phone. All folio-style phone cases must be removed.

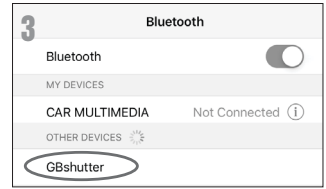
USING THE BLUETOOTH REMOTE



To insert or replace the battery, place your thumb in the center of the back cover, pressing inward and sliding downward remove the battery door. The CR2032 battery should be inserted with the positive (+) side facing upward. Replace the cover.



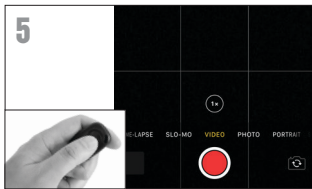
Press and hold the button on the remote for 5 seconds. A blue light will turn on and, after a few seconds, start to blink. The remote is now in pairing mode.



Using the Bluetooth settings on your phone, pair the device called “GBshutter”.



Open your camera app. Press the button on the remote to trigger the shutter on your phone.



If your camera is in video mode, you can press the button once to start recording and again to stop the recording.

SAFETY INSTRUCTIONS

- Risk of explosion if battery is replaced by an incorrect type.
- The included battery is not rechargeable.
- Please use the battery in its original purpose to avoid causing the battery to short circuit. When the conductive material is connected directly to the battery positive and negative will cause a short circuit.
- Do not use a damaged battery.
- Keeping the battery in an extremely cold or very hot location can result in shortened battery life.
- When replacing the battery, please refer to the instruction manual and pay attention to the positive and negative direction of battery.
- Do not put the battery in the fire. Dispose of the battery according to local regulations.

FCC IDENTIFIER: **2A2FG-X9**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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celestron.com/pages/technical-support

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