

Instructions

Galileo®



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FS-720

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Getting Started

With your new FS-720 Refracting Telescope from Galileo Visions Inc., you will be entering fascinating new worlds. Please read the following instructions in this manual so you will be familiar with the FS-720, and it's workings. This will insure that your first viewing session will be an enjoyable one.

The FS-720 is a remarkable instrument. The optical & mechanical components are research quality, and are made to exacting standards. Whether your a amateur astronomer, bird watcher or nature enthusiast you will appreciate the quality of this superb telescope.

The versatile FS-720 can be used many ways; Telescope, Long-Distance Microscope, Spotting Scope and even as a Tele-Photo Lens. The ease of use and portability of the FS-720 make it a pleasure to take along where ever you go.

WARNING

Never point the telescope or finderscope directly at the Sun. Severe eye damage (Blindness) can occur within a fraction of a second. The Sun's rays can also ruin the optics

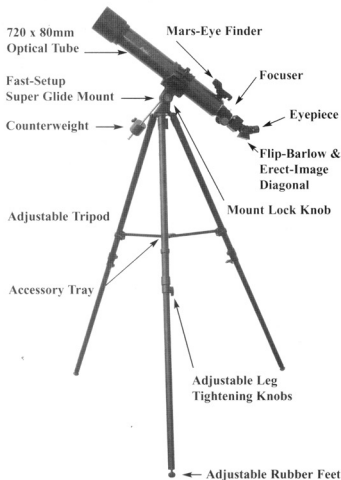
Galileo FS-720 Telescope & Contents

- Shipping Carton
- Instructions
- FS-720 Optical Tube Assembly., 720mm F.L. x 80mm Dia. Refracting Telescope
- Multi-Coated Optics
- 1.25" Helical Rack & Pinion Focuser w/Focus Lock
- 1.25" 25mm & 6.8mm to 16mm Zoom Astroscopic Eyepieces
- Mars-Eye Finder
- Fully Adjustable Tripod w/Super-Glide Mount
- 1.25" 45 Degree Erect Image Prism Assembly
- 2x Flip Barlow
- Accessory Tray
- Carrying Case
- Lens Covers

Optional Accessories

- 1.25" Astroscopic Plossl & Wide-Angle Eyepieces

Getting Acquainted with your new FS-720 Telescope



Assembly

1. Remove the tripod legs from the shipping carton, and extend the legs, and tighten securely.
2. Extend the adjustable rubber feet, if assembling inside.
3. Take the telescope/mount out of the shipping carton and remove the locking knob & plastic washer underneath the Super-Glide mount.
4. Place telescope/mount onto the tripod, and replace the locking knob, and tighten (do not over tighten).
5. Attach Mars-Eye finder & bracket to telescope. Adjust finder(see above paragraph).
6. Place Flip-Barlow & Erect-Image Diagonal into focuser, and tighten locking screw.
7. Place 25mm Astrophoscopic eyepiece into prism assembly .
8. Uncover lens cap.
9. Point telescope toward an object and focus (object should not be closer than 200 feet for first attempt).
10. Point at objects at different distances, and refocus. This will get you familiar with the focusing mechanism.
11. The instrument does not need to be disassembled after use but, if you leave it assembled we recommend that it be covered when not in use to keep it clean and free of dirt & dust.

Take time to learn all of the parts that make-up your new FS-720 telescope. This should be done during the day time. Once you've become familiar with the workings of the instrument this will enhance your viewing pleasure when your using the FS-720 at night.

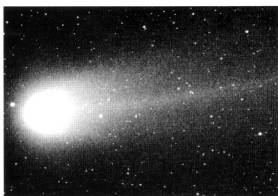
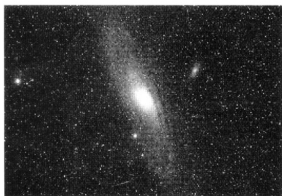
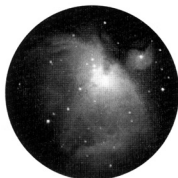
Be sure that all the knobs (mount) & tightening collars (tripod legs) that tighten the mount and tripod legs are tightened, and that the telescope is firmly attached to the Fast-Setup Super-Glide mount. Attach Accessory Tray. At this point attach the counterweight & shaft to mount which is on the opposite side of the mount lock knob. Next, balance the telescope. This is done by pointing the telescope straight up and moving the counterweight back & forth until the telescope stops moving. Then move the telescope until it's parrarel to the ground. Loosen the telescope in the telescope tube and move it back and forth until the telescope doesn't fall.

Also, adjust your finder during the daytime. Find an object looking through the FS-720, like a water tower, tall building etc. that's at least a 1/2 mile away. Then, move the adjusting screws until the red dot in the Mars-Eye finder is on the same object as in the eyepiece of the telescope.

Note: Please remove the plastic or paper battery saver after attaching Mars-Eye Finder.

Capabilities

You'll soon learn that the capabilities of the FS-720 are almost endless. Whether you're studying the structure of a bird's wing, or observing a nebulae, galaxy or comet in the night sky or viewing a distant castle the versatility of this impressive instrument will keep you coming back for more. The more you'll use the FS-720 the more things you'll find to observe with it. Try looking at a wasp's nest at 80 feet, or an ant hill at 60 feet or a frog's eye at 70 feet or whatever you can think of. The FS-720 will open all new worlds for you to explore. Plus, the FS-720 can make a great telephoto lens too. Capture all the wonderful new worlds that your observing on film or video, and have a lasting memory of the things that you have discovered. With the use of photo or video equipment you can start to build a library of your viewing experiences.



Focusing

When first using the FS-720 find an object that is easy to find. During the daytime a water tower or street sign make ideal objects to focus on. If your observing for the first time at night, use the Moon if available. Turn the focus knob until the image is sharp. If someone else uses the FS-720, they might have to refocus slightly because most people's eyes are different. **Note:** Looking through a window is not recommended. The glass that's in the window is not optical glass, and will denigrate the image.

Optical Alignment & the Care of Fine Optics

The multi-coated achromatic air-spaced objective lens assembly was aligned at the factory and should never need adjusting. If the instrument gets subjected to a severe shock and becomes misaligned contact the factory for further instructions to have the instrument recollimated.

The multi-coating increases light transmission, and enhances contrast. If the lens becomes dirty and it is necessary to have it cleaned. Care must be taken not to scratch the optics and its coatings. Take a squeeze bulb blower or air can to remove as much dust and dirt as possible. Then if you have a fine brush gently remove the excess. Next, take a lens tissue with an optical glass cleaner to finish cleaning the lens. **Note:** Change tissues often, and never use a lot of pressure.

First Light

When first taking a look at an astronomical object we recommend the Moon. The Moon is very large, bright and easy to find. Even though it's our closest celestial neighbor it offers many points of interest on it's lunar landscape, i.e mountains, rilles, valleys and above all craters, thousands of craters. If you've just started observing or if your advanced amateur with many years of experience, the Moon is always interesting to observe.

Observing Tips

Before observing, give the telescope a chance to adjust to the ambient temperature. Take the telescope outside around 30 minutes before observing. This will give the instrument time to cool down. If the inside temperature is around 20 degrees or more than the outside temperature you will have to allow more time for the telescope to adjust. If you start observing before the instrument has reached thermal equilibrium the image quality will be subpar. This will especially be true at higher magnification where the image is more critical.

As you become more experienced in observing you'll notice that the seeing conditions (air turbulence) will also effect the quality of the image that the telescope produces. On evenings when the stars are twinkling rapidly you'll soon discover that the images at mid to high magnification are not very good. The best viewing will be at the zenith (overhead). At the zenith you're viewing through 10 miles of atmosphere, and when you're viewing at the horizon, you're viewing through 100 miles of atmosphere.

Galileo Visions Inc. LIMITED LIFETIME WARRANTY

Your Galileo telescope is warranted to be free of defects in material and workmanship for the lifetime of the original owner. We guarantee to repair or replace at our option any products or parts thereof which are found defective. Our obligation with respect to such products or parts shall be limited to replacement or repair, F.O.B. Miami, FL, and in no event shall we be liable for consequential or special damages or for transportation, installation, adjustment, or other expenses which may arise in connection with such products or parts. A fee is required to cover postage and handling with the return of the product. Please contact the company for this fee and a return authorization number before returning the product. No expenses, warranties and implied warranties, whether or not merchantability of fitness for any particular use or otherwise (except as to title) other than these expressly set forth above which are made in writing and signed by executive officer of our corporation.

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