BOBLOV LT70400 Astronomical Telescope User Manual

BOBLOV®

ASTRONOMICAL TELESCOPE
USER MANUAL

Model: LT70400

Please read this manual carefully before using the product and keep it properly

Contents

Preface

We sincerely thank you for using our company's product—Astronomical telescope. This manual is the introduction of this product which briefly introduces its install. functions, features, external structure, operation and caution items. Before using the product, please read the user manual carefully and keep properly.

Package Contents

1. Please make sure that the accessories are in good condition before installation, and no lack of accessories. Please check the instructions carefully to identify each component. The wrong installation method may lead to unclear target or product damage. The manufacturer shall not be liable for any damage to the products caused by improper use.

Package included:

●1*Original Handbag

●1*Objective Lens

●1*Tripod Rack

●1*25mm Eyepiece

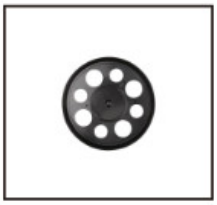
●1*10mm Eyepiece

●1*Barlow Lens

●1*Zenith Mirror

●1*Smartphone adapter

●1*Optical Viewfinder



●1*Accessory Tray

●1*Remote Control

Installation Drawing

1. Structure Explanation

How to Install Telescope

1. **Install the Tripod Rack**
    1. Spread the tripod and open it until the tripod stopper is fully extend. If you try to stretch only one leg forcibly,the opening stopper will be damaged.
    2. Set the accessory tray on the tripod stopper.
    3. Rotate the accessory tray to secure it firmly.

2. **Install the Lens Barrel**
    1. Place the lens barrel fixing plate on the tripod rack mount.
    2. Slide the lens barrel fixing plate to the center of the mount.
    3. Use the fixing screws on the mount to tighten it until there is no wobbling.
    4. Please remove the objective lens cover before using.

3. **Install the Eyepiece/Zenith Mirror**
    1. Set the zenith mirror and tighten the screws so that there is no woobbling.
    2. Attach the eyepiece to the zenith mirror and tighten the screws.
    3. Use 25mm/10mm eyepieces as an option,Need to focus again after replacing multiple of eyepiece.

4. **Install the Barlow Lens**
    1. The eyepiece can be connected with a Barlow Lens to magnify different times,
       The 25mm eyepiece looks 20x larger, The eyepiece 10mm looks 50x larger.
    2. Please connect the magnifier in the correct order according to the pictures .
    3. Improper installation may result in unclear target.
    4. Refocus is required every time when the lens is changed.

How to install Optical Viewfinder

1. **Install the Optical Viewfinder**
    1. Set the viewfinder fixture on the upper left of the lens barrel.
    2. Slide the grooved side of the fixture toward the objective lens, insert it all the way in,and tighten the screw.
    3. Pass the Optical Viewfinder through the upper loop of the fixture and tighten the screw.
    4. Please pay attention that the viewfinder uses special optical lens, and the image is inverted, this is normal, it is not defective.

How to Install Smartphone Adapter

1. **Install the Smartphone Adapter**
    1. Set the smartphone adapter on the eyepiece and rotate it until the inner fixing foot sandwiches the eyepiece to fix it.
    2. Please fix your smartphone to the smartphone pedestal surface.
    3. Loosen the screw on the back of the pedestal and align the peephole with the smartphone lens.
    4. If the peephole is out of position, it will be shaded and the shooting range will be narrowed.
    5. The black area can be removed by enlarging the screen of mobile phone.

How to Connect Remote Control to Mobile Phone

1. Turn on the remote control by switching the on/off button, the remote will enter into pairing mode and indicator led starts flash quickly at the same time.
2. Open the bluetooth on your phone and sourcing the devices, Select the device of “AB shutter3” from the list and paring will be finished autonmaticaly in few seconds. Support IOS and Android systems.
3. You can use inbuilt camera app to taking the photos via remote control, or you can also download the app of camera 360 from google play.
4. If inbuilt camera cannot be supported, check the compatible device and app in manual
5. The battery model of the remote control is CR2032 3V, which can be replaced.

Product Specifications

Product Model	LT70400	Tube Material	Aluminium alloy
Objective Aperture	70 MM	Optical Structure	Refractive
Focal Length	400 MM	Optical Viewfinder	5×24 Red Dot Viewfinder
Eyepiece 1	Eyepiece 25 mm (16 times)	Mount	Plastic mount
Eyepiece 2	Eyepiece 10 mm (40 times)	Coating	FMC anti-reflective coating
Zenith Mirror	45° Erect mirror	Tripod Material	Aluminum alloy material

Magnification Reference Table

Focal length (400mm) /25mm Eyepiece Focal length (400mm) /25mm Eyepiece	X 3x Barlow	=16 Times =48 Time
Focal length (400mm) /10mm Eyepiece Focal length (400mm) /10mm Eyepiece	X 3x Barlow	=40 Times =120 Time

How to Use and Preservation

1. **How to Use**
    1. When practicing at the beginning of use,practice focusing on a distant view during bright hours during the day,look through the eyepieces and use the focus knob to fine-tune the focus of the blurred object, it is recommended to start from low multiple, that is use the eyepiece with larger number, do not install the Barlow lens, and increase the multiple slowly after getting familiar with it.
    2. Due to the high multiple, the field of view of the astronomical telescope will be small, so itis not easy to find the target. In the daytime, you can first set a target through the optical viewfinder, adjust it to the same picture of the optical viewfinder and the main mirror tube, and in the evening, you can find the observation object from the optical viewfinder and watch it in the main mirror tube.
    3. If the target moves in the field of vision, it may be caused by eyepiece shaking. When you find this phenomenon, you need to hold the eyepiece with your hand.
    4. You can adjust the tightness of the theodolite by rotating the fine movement handle, and adjust the horizontal position by rotating the screw of the level. When grasping the target, itis also very important to adjust the position of the lens barrel.
    5. On aclear night, you can use the product to observe the moon. The best observation time is between two days after the new moon and a few days before the full moon. During this time, you can see most of the details of the moon, including crater, moon sea, radiation pattern and so on. You can also target other celestial objects, such as planets, star clusters and nebulae.(If the lens is replaced, refocus first)
2. **How to Preservation**
    1. The telescope is a precise optical instrument, which is designed to be used almost for life and needs little maintenance. If necessary, it must be carried out by the factory. Please keep and maintain it according to the following rules.
    2. If the lens gets dust or fingerprints,do not wipe it with a pair of glasses or a handke- rchief. The lens will

be scratched and difficult to see.

3. Use a camera blower to remove small debris.
4. Gently wipe off fingerprints and other stains with a cotton swab soaked with a lens cleaner.

Troubleshooting

Q: I can't see the target when I look at the eyepiece, I have take off the dust cover,|t's as blank and fuzzy
A:

1. Please make sure that the cover of the eyepiece needs to be removed before use.
2. If you use this telescope for the first time, we don't advise to install Barlow lens at first, it is difficult to focus. You can use this Barlow lens after you use the telescopes a few times.
3. Try to use 25mm eyepiece at the first. And then use 10mm eyepiece after you use the telescopes a few times.
4. The telescope can be used during the day and at night, If you can't see the target through the eyepiece, please adjust the focus with the turn knobs on the side of the telescope, You'll see the eyepiece lengthening and shortening, and that's how to focus the object.When replacing different magnification eyepiece or installing Barlow Lens, refocusing is needed. The larger the magnification is, the more difficult it is to find the target. Patient and accurate focusing are needed to find the target.

Q: Is there a piece with this to set a smartphone on and take pictures?
A: Yes, it comes with a smartphone bracket and a remote control, which is very easy to install and use. The remote control comes with a connection manual. Please read this instruction carefully.

Q: Why the Optical Viewfinder is inverted of the target?
A: Please noted that it is normal, as the view finder use the special optical lens, all of telescopes optical viewfinder has this situation. Please don't worry, it is not defective.

Q: What is the difference between two different multiples lens and what is the Barlow Lens?
A: The target can be magnified by 16 times for the 25mm eyepiece, and the 10 mm eyepiece can enlarge the target by 40 times, and the larger the magnification, the smaller the target will be seen by the eyepiece and the clearer. The Barlow Lens can be enlarged twice on the original basis. The focus should be re focused if you change the lens. We suggest that the 25mm eyepiece should be used first, which will be better to find the target and focus.

Points to Note

1. After changing the lens, you need to focus again. If the magnification is too large, you may not find the target. Please be patient with focusing before looking for the target
2. Please don't aim at the sun, it will hurt your eyes
3. When storing, put a desiccant together and store in a well-ventilated place to prevent mold due to moisture.If possible, we recommend that you keep the tripod open and the lens barrel in place in a well-ventilated room.
4. The optical view finder is inverted for targeting. It is normal not defective.

About Warranty

1. This product is guaranteed free of charge from the date of purchase.During the warranty period, we will provide free warranty for any quality problems.

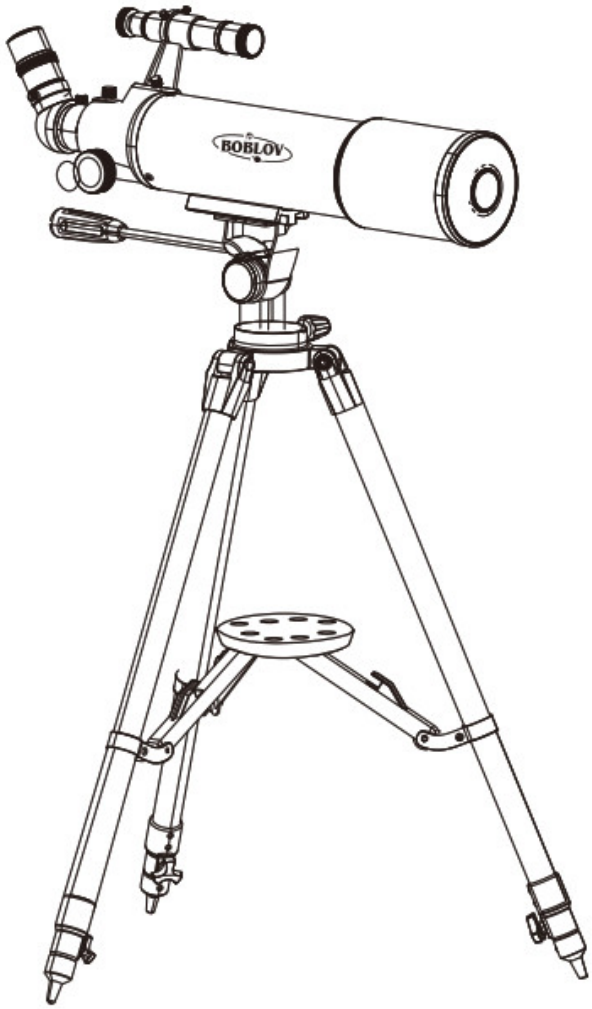
The warranty period of lens barrel,theodolite and tripod is one year, and that of other accessories is half a year.

2. Please note that the following conditions are not covered by the free warranty:
    1. Unable to show order number.
    2. The product is damaged due to not following the instructions.
    3. The product is damaged due to external factors or human activities.
    4. Mildew and rust caused by improper storage.
    5. Damage caused by self disassembly and repair.

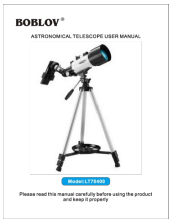
Customer Support:
BOBLOV is dedilated to offer the best serice.
To reach BOBLOV customer support. Please email us:
support@boblov.com.
Web: **http://Avww.boblov.com**

BOBLOV

https://apps.apple.com/us/app/id1396277698



Documents / Resources

	**BOBLOV LT70400 Astronomical Telescope** [pdf] User Manual LT70400, Astronomical Telescope, LT70400 Astronomical Telescope, Telescope