

Byomic Dobson Telescope SkyDiver 102/640



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Dear user,

This product is ideal for anyone who wants to discover their world in a new way. That is why it is easy to operate and maintain; it is robust and has a beautiful design.

It is important for you and for us that you can use the telescope safely. For example, we already thought about making this product as safe as possible for use by children when it was being manufactured. Nevertheless, certain dangers can never be completely excluded. After all, this is not a toy in its original sense, but much more.

This product is a fully-fledged optical instrument with which everyone can experience, investigate and experiment in the world.

Although these instructions for use are essentially written for children, please read them together with your child and answer his or her questions.

Explain the possible dangers to your child yourself.

In the "Warnings" section, possible dangers which may occur when using this appliance are listed. Go through all the settings on the device together with your child and don't lose sight of your child!

We wish you and your child lots of fun and exciting discoveries.

Dear young discoverer,

You have bought this product or received a gift on which I would like to congratulate you.

When reading these instructions, you will be amazed at how versatile you can use this device and how much you can discover with it.

Convince yourself and dive into the world of experiences and discoveries in nature.

You will have a lot of fun and find it very exciting to experience the world with this telescope.

Before you start using the telescope, please read these instructions carefully. There are a number of important points you need to know before you start making your first observations.

Please read the "warning" very carefully! Only use the telescope as described in the instructions for use so that no accidental injury or damage occurs. Keep this manual for future reference.

If you lend this telescope to someone else or give this manual as a present.

Have fun exploring and discovering!

BYOMIC

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OPERATING INSTRUCTIONS INTRODUCTION

THIS TELESCOPE HAS BEEN PRODUCED TO PRECISE SPECIFICATIONS.

PRIOR TO USING YOUR NEW TELESCOPE, PLEASE READ THE FOLLOWING SETUP AND USAGE INSTRUCTIONS. IT IS IMPORTANT TO PROPERLY ASSEMBLE YOUR TELESCOPE IN ORDER TO ALLOW IT TO FUNCTION PROPERLY.

USE THE TELESCOPE FOR TERRESTRIAL (LAND) VIEWING BEFORE ATTEMPTING TO VIEW ASTRONOMICAL OBJECTS. THIS WILL FAMILIARIZE YOU WITH HOW POWERFUL EACH EYEPIECE WILL BE, AS WELL AS INTRODUCE YOU TO THE FUNCTIONS OF YOUR ACCESSORY LENSES.

THE IMAGE YOU SEE WILL BE UPSIDE DOWN AND BACKWARD. THIS IS DUE TO THE FACT THAT YOUR TELESCOPE IS AN ASTRONOMICAL TELESCOPE AND HAS BEEN MANUFACTURED FOR ASTRONOMICAL OBSERVATIONS. IN ASTRONOMICAL VIEWING,

THERE IS NO UP OR DOWN, NO RIGHT OR LEFT.

WE RECOMMEND YOU BEGIN WITH THE LOWEST POWER EYEPIECE, 20MM WHEN USING YOUR TELESCOPE. AS YOU INCREASE THE POWER TO 6MM YOUR POWER WILL BE HIGHER, BUT THE IMAGE WILL APPEAR DARKER. THIS IS DUE TO THE BASIC PHYSICAL PROPERTIES OF THE TELESCOPE. THE HIGHER THE POWER YOU USE, THE DARKER THE IMAGE WILL APPEAR AND YOUR VIEWING FIELD WILL BE MORE NARROW.

PLEASE BE PATIENT WHEN USING YOUR TELESCOPE. IT IS A VERY SENSITIVE INSTRUMENT THAT IS CAPABLE OF USING HIGH POWER. HOWEVER, THE MORE POWER YOU USE, THE MORE SENSITIVE THE TELESCOPE BECOMES. AS A RESULT THE SLIGHTEST MOVEMENT OF THE TELESCOPE COULD CAUSE YOU TO LOSE THE IMAGE YOU HAVE IN YOUR EYEPIECE. PRACTICE WILL ENABLE YOU TO KNOW HOW MUCH MOVEMENT TO EXPECT WITH EACH EYEPIECE AND IT'S CORRESPONDING POWER.

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PARTS & ACCESSORIES

- A. ELECTRONIC RED DOT FINDER:
USED TO LOCATE OBJECTS PRIOR TO
USING MAIN TELESCOPE.
PLEASE NOTE YOU MUST ALIGN THE
FINDER WITH THE MAIN TUBE PRIOR TO
INITIAL ASTRONOMICAL OR TERRESTRIAL USE.



- B. EYEPIECES
20MM EYEPIECE =32X (LEAST POWERFUL - MOST LIGHT)
6M M EYEPIECE =107X (MOST POWERFUL - LEAST LIGHT)



- C. 3X BARLOW:
USED TO INCREASE THE POWER OF ANY GIVEN EYEPIECE BY
300%. EXAMPLE - 20MM EYEPIECE SEPARATELY PROVIDES 32X
POWER, WHEN USED WITH THE 3X BARLOW, YOU NOW HAVE



- D. 1.25 INCH HELICAL RACK & PINION FOCUSER.
ALLOWS FOR PRECISE FOCUSING.



- E. OPTICAL ASSEMBLY TUBE



- F. ACCESSORIES



LOCKING KNOB SPRING WASHER METAL WASHER SLEEVE PLASTIC WASHER

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ASSEMBLY INSTRUCTIONS

CAUTION: NEVER POINT YOUR TELESCOPE AT THE SUN. VIEWING THE SUN WITH THIS TELESCOPE OR EVEN THE UNAIDED EYE CAN RESULT IN BLINDNESS OR OTHER SERIOUS EYE DAMAGE.

1. REMOVE ALL PARTS FROM BOX AND IDENTIFY THEM.
TELESCOPE
MOUNT (NEEDS TO BE ASSEMBLED)
ELECTRONIC RED DOT FINDER
EYEPIECES (F20MM & F6MM)
3X BARLOW
M6x25 SCREWS AND M6x30 SCREWS
LOCKING KNOB
WASHERS (PLASTIC WASHER + METAL WASHER + SPRING WASHER)

2. ATTACH SIDE SUPPORT TO SIDE PANEL WITH 2PCS M6x30 SCREWS



3. ATTACH ACCESSORY HOLDER TO SIDE PANEL WITH 2PCS M6x25 SCREWS



4. ATTACH SIDE PANEL TO TOP PORTION OF BASE WITH 3PCS M6x30 SCREWS



5. PLACE TOP PORTION OF BASE ONTO THE BOTTOM PORTION OF THE BASE



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6. PLACE FLAT WASHER ONTO CENTER BOLT



7. PLACE SPRING WASHER ONTO CENTER BOLT



8. THREAD LOCKING KNOB ONTO CENTER BOLT (DO NOT OVER TIGHTEN)



9.(1) REMOVE LOCKING KNOB, WASHER AND SLEEVE FROM BOLT (ON THE HUB OF THE TUBE)



9. (2) ATTACH TUBE AND CRADLE ASSEMBLY TO THE SIDE PANEL WITH LOCKING KNOB (DO NOT OVER TIGHTEN)



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10. ATTACH TUBE ASSEMBLY TO THE SIDE PANEL PLACE METAL WASHER AND THEN SPRING WASHER TO BOLT, THEN TIGHTEN THE LOCKING KNOB (DO NOT OVER TIGHTEN)



11. ALIGN THE BOTTOM OF RED DOT FINDER TO THE GROOVE OF THE FINDER BASE, THEN SLIDE THE BOTTOM TO FINDER BASE.



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WHEN LOCATING AND CENTERING AN OBJECT TO OBSERVE, MANUALLY MOVE THE Byomic SkyDiver DOBSONIAN MOUNT "SIDE TO SIDE" AND "UP AND DOWN" AS SHOWN IN THE ABOVE IMAGE.

THE COLLIMATION SPOT ON THE PRIMARY MIRROR IS FOR THE OPTICAL ALIGNMENT OF THE TELESCOPE, AND IS NOT A DEFECT.



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FEATURES OF BYOMIC SKYDIVER 102/640



EYEPIECES



F20mm

F6MM



3x BARLOW

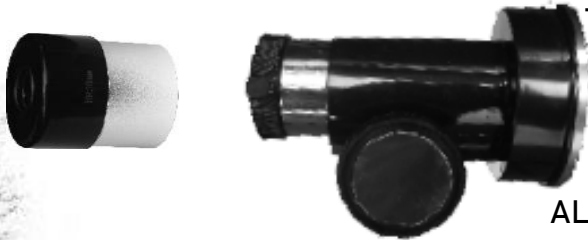
HOW TO USE EYEPIECES & ACCESSORIES

PROPER PLACEMENT OF THE EYEPIECES AND ACCESSORIES ARE IMPORTANT IN ORDER TO ASSURE EASY OPERATIONS AND CLEAR VIEWING.

PLEASE CONSIDER USING YOUR ACCESSORIES IN THE FOLLOWING ORDER. BY DOING THIS YOU WILL BETTER UNDERSTAND THE IMPACT EACH INDIVIDUAL ACCESSORY HAS ON THE FUNCTION OF YOUR TELESCOPE.



1. FOCUSING TUBE - TURN FOCUSING WHEELS TOWARD THE TELESCOPE UNTIL IT WILL GO NO FURTHER. TO FOCUS BEGIN TO TURN THE FOCUSING KNOBS TOWARD YOUR BODY, SLOWLY, UNTIL THE IMAGE IS CLEAR. NOTE: YOU MUST HAVE AN EYEPIECE INSERTED IN ORDER TO VIEW IMAGE. PLEASE READ FURTHER.



2. EYEPIECE INSERTION - INSERT AN EYEPIECE INTO THE RECEIVING END OF THE FOCUSING TUBE. WE SUGGEST YOU ALWAYS BEGIN WITH THE LOWEST POWER EYEPIECE (20MM). THE LOWER THE NUMBER ON THE EYEPIECE, THE HIGHER THE POWER YOUR TELESCOPE WILL BE USING. ALSO AS YOU INCREASE YOUR POWER YOU WILL DECREASE THE FIELD OF VIEW AND THE BRIGHTNESS OF YOUR TELESCOPE. WE SUGGEST YOU ALWAYS USE THE LOWEST POWER REQUIRED TO VIEW YOUR SUBJECT.



3. BARLOW LENS - THE BARLOW LENS IS USED TO ACHIEVE THE MAXIMUM POWER FROM YOUR TELESCOPE. INSERT THE BARLOW DIRECTLY INTO THE FOCUSING HOUSING, THEN INSERT AN EYEPIECE INTO THE RECEIVING END OF YOUR BARLOW LENS. REMEMBER YOU WILL HAVE TO READJUST YOUR FOCUSING DUE TO THE FACT THAT YOU HAVE INCREASED THE POWER OF YOUR TELESCOPE.

ELECTRONIC RED DOT FINDER MOUNTING & ALIGNMENT

TO MOUNT:

- 1) REMOVE ELECTRONIC RED DOT FINDER FROM BOX.
- 2) LOOSEN THUMB SCREWS ON SIDE OF FINDER AND SLIDE FINDER ONTO DOVETAIL MOUNT LOCATED AT TOP OF MAIN TELESCOPE TUBE.
- 3) TIGHTEN THUMB SCREWS.

TO CHECK ALIGNMENT WITH MAIN TELESCOPE:(IMPORTANT!)

- 1) THE ELECTRONIC RED DOT FINDER IS NOT PRE-SET AT FACTORY. THE FOLLOWING WILL ALLOW YOU TO ADJUST THE ALIGNMENT.
- 2) DURING THE DAY LIGHT HOURS, AIM THE MAIN TELESCOPE AT AN OBJECT AT LEAST ¼ MILE OR MORE IN THE DISTANCE AND BRING IT INTO FOCUS.(VERY IMPORTANT)
- 3) ONCE YOU HAVE CENTERED THE REFERENCE ITEM IN THE MAIN TUBE, TIGHTEN ALL KNOBS AND ADJUSTMENTS TO PREVENT ANY MOVEMENT.
- 4) REMOVE CIRCULAR BATTERY SAVER LOCATED BENEATH FRONT OF FINDER (BE SURE TO SAVE AND REPLACE THE BATTERY SAVER WHEN NOT IN USE.)
- 5) TURN FINDER ON BY SLIDING ON/OFF SWITCH FORWARD. ON/OFF SWITCH IS LOCATED ON THE RIGHT SIDE OF THE FINDER.
- 6) LOOK THROUGH THE FINDER AND LOCATE THE RED DOT.
- 7) IF THE OBJECT IN THE ELECTRONIC RED DOT FINDER IS NOT THE OBJECT YOU SEE THROUGH THE MAIN TELESCOPE TUBE, ADJUSTMENT IS REQUIRED.
- 8) TO MOVE THE RED DOT UP AND DOWN, SIMPLY TURN THE ELEVATION SCREW LOCATED ON THE REAR BOTTOM OF THE FINDER TO HEIGHT REQUIRED.
- 9) TO MOVE THE RED DOT LEFT AND RIGHT, SIMPLY TURN THE WINDAGE SCREW LOCATED AT THE FRONT LEFT SIDE OF THE FINDER TO THE PROPER POSITION.
- 10) THESE ADJUSTMENTS WILL ALLOW YOU TO POSITION THE RED DOT ON THE SAME OBJECT CENTERED IN THE MAIN TELESCOPE.



USING THE BARLOW LENS

AS STATED EARLIER IN THE INSTRUCTIONS, THE BARLOW LENS INCREASES THE POWER OF THE EYEPIECES BY 3 TIMES.

TO USE SIMPLY INSERT THE BARLOW LENS INTO THE MAIN FOCUSING TUBE AND THEN PUT THE DESIRED EYEPIECE INTO THE RECEIVING END OF THE BARLOW LENS

PLEASE REMEMBER, THE HIGHER THE POWER YOU USE THE DARKER THE IMAGE WILL APPEAR.

POWER CHART

EYEPIECE	POWER	POWER WITH 3 X BARLOW
6MM	107X	321X
20MM	32X	96X

GETTING THE MOST FROM YOUR TELESCOPE

TAKE THE TIME TO BECOME FAMILIAR WITH YOUR NEW TELESCOPE. LEARN THE NAMES OF THE VARIOUS PARTS, WHERE THEY ARE LOCATED AND THEIR FUNCTION. IT IS BEST TO PERFORM THESE FUNCTIONS DURING THE DAY TIME.

WHEN SETTING UP FOR A VIEWING SESSION, PLACE THE TELESCOPE IN AN AREA SHELTERED FROM THE WIND IF POSSIBLE. THE BEST NIGHT TIME VIEWING WILL BE AWAY FROM CITY LIGHT AND WHEN THE ATMOSPHERE IS "STEADY".

WITH A LITTLE PRACTICE YOU WILL LEARN TO JUDGE WHEN VIEWING CONDITIONS ARE GOOD. LOOK FOR THE NIGHTS WHEN THE STARS SHINE BRIGHTLY WITH LITTLE OR NO TWINKLING.

USE LOW POWER TO TAKE ADVANTAGE OF THE WIDER FIELD OF VIEW AND BRIGHTER IMAGE. RESERVE YOUR HIGHER POWERS FOR THOSE NIGHTS WHEN VIEWING CONDITIONS ALLOW FOR DETAILED OBSERVATIONS.