FOR ADDITIONAL HELP PLEASE VISIT:

VIDEO

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IF YOU NEED ANY FURTHER HELP WITH YOUR GALILEO TELESCOPE PLEASE CALL US @ 305-245-8444 MON-FRI 9AM - 5PM E.S.T OR E-MAIL US AT CUSTOMERSERVICE@COSMOSOPTICS.COM
THIS TELESCOPE HAS BEEN PRODUCED TO PRECISE SPECIFICATIONS.

PRIOR TO USING YOUR NEW GALILEO 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, 25MM WHEN USING YOUR TELESCOPE. AS YOU INCREASE THE POWER TO 10MM 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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ACCESSORIES

A. EYEPieces
   25MM EYEPiece = 52X (LEAST POWERFUL - MOST LIGHT)
   10MM EYEPiece = 130X (MOST POWERFUL - LEAST LIGHT)

B. 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.

C. 3X BARLOW:
   USED TO INCREASE THE POWER OF ANY GIVEN EYEPiece BY 300%. EXAMPLE - 25MM EYEPiece SEPARATELY PROVIDE 52X POWER, WHEN USED WITH THE 3X BARLOW, YOU NOW HAVE 156X POWER.

D. 2 INCH TO 1.25 INCH ADAPTER
   COMES ATTACHED TO THE FOCUSER

E. 2 INCH HELICAL RACK & PINION FOCUSER.
   ALLOWS FOR PRECISE FOCUSING.

F. GALILEO STELLARIUM CD-ROM
   FROM ANY LOCATION YOU CAN SEE THE SKY AT IT APPEARS AT ANY TIME OF DAY, OR EVEN IN THE FUTURE.

NOTE: SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
G-160DB TELESCOPE
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)
   SCREWS AND KNOBS FOR ASSEMBLING THE DOBSONIAN MOUNT
   ELECTRONIC RED DOT FINDER
   EYEPIECES (KF25MM & PL10MM)
   2 INCH TO 1.25 INCH ADAPTER (ASSEMBLED IN FOCUSER)

2. THE IMAGE BELOW IS THE DOBSONIAN MOUNT FULLY ASSEMBLED. SEE THE BREAK DOWN FIGURE NEXT PAGE.
ATTACHING THE RIGHT & LEFT SIDE SUPPORTS

ATTACHING THE FRONT SUPPORT

ATTACHING THE TOP PIECE OF THE BASE

PLACING CENTER BOLT IN THE BOTTOM BASE

CENTER BOLT

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(5B) PLACE THE WASHER IN THE CENTER BOLT

(6) TIGHTEN THE NUT OF THE CENTER BOLT (DO NOT OVER TIGHTEN)

(7) PLACING THE MOUNT ON THE BOTTOM BASE

(8) ATTACHING LOCKING KNOB

NOTE: DO NOT OVERTIGHTEN THE LOCKING KNOB

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3. Place the telescope OTA onto Dobsonian mount and tighten the knobs on the side, but do not over tighten.

4. Loosen thumb screws on side of finder and slide finder onto dovetail mount located at top of main telescope tube. Tighten thumb screws.

5. The collimation spot on the primary mirror is for the optical alignment of the telescope, and is not a defect. See page 7 for collimating instructions.
GALILEO DOBSONIAN
FULLY ASSEMBLED

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FEATURES OF G-160DB

- EYEPiece
- ELECTRONIC RED DOT FINDER
- HELICAL RACK & PINION FOCUSING
- OPTICAL TUBE
- BACK
- TO SKY
- FRONT

EYEPieces

- KF25MM
- PL10MM
- 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 KNOBS 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.


3. BARLOW LENS - THE BARLOW LENS IS REQUIRED TO ACHIEVE THE MAXIMUM POWER FROM YOUR TELESCOPE. INSERT THE BARLOW DIRECTLY INTO THE FOCUSING HOUSING INSERT AN EYEPIECE DIRECTLY 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.

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ELECTRONIC RED DOT FINDER
MOUNTING & ALIGNMENT

TO MOUNT:
1) REMOVE ELECTRONIC RED EOT 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 RED EOT ELECTRONIC 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 1/4 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 RED EOT 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.
POWER CHART

<table>
<thead>
<tr>
<th>EYEPIECE</th>
<th>POWER</th>
<th>POWER WITH 3 X BARLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>10MM</td>
<td>130X</td>
<td>390X</td>
</tr>
<tr>
<td>25MM</td>
<td>52X</td>
<td>156X</td>
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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.

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