Accessories

OTA	Χĺ
Telescope Mounting	x 1
HandSet (Depend on Config)	x 1
Tripod	Χĺ
Red Dot Finder	x 1
Diagonal Prism	x 1
Eyepiece K20mm	x 1
Eyepiece K10mm	Χĺ
Battery Holder	x 1
Bubble Compass	x1

Specifications

DS-20081 / DS-20081-L / DS-20081-H

Clear aperture	. 80 mm
Focal length	. 900 mm
Focal ratio	. f/11.2
Resolving power	. 1.2 arc secs
Mounting	Single-arm, motorized Alt-Az
Alignment	Altazimuth
Slew Speeds	1x sidereal to Max DC motor in 8 increments
Tripod	Aluminum, full-length; adjustable w/accessory tray
Optical Tube Dimensions	. 3.25" x 34"
Batteries (user-supplied)	. 8 x AA, or 12VDC Adapter (Option)
Controller	HandSet (Depend on Config)

DS-20090 / DS-20090-L / DS-20090-H

Optical design	Refractor
Clear aperture	90 mm
Focal length	900 mm
Focal ratio	f/10
Resolving power	1.3 arc secs
Mounting	
Alignment	Altazimuth
Slew Speeds	1x sidereal to Max DC motor in 8 increments
Tripod	Aluminum, full-length; adjustable w/accessory tray
Optical Tube Dimensions	
Batteries (user-supplied)	8 x AA, or 12VDC Adapter (Option)
Controller	HandSet (Depend on Config)

DS-20090DI / DS-20090DI-L / DS-20090DI-H

Optical design	Retractor
Clear aperture	90 mm
Focal length	900 mm
Focal ratio	f/10
Resolving power	1.3 arc secs
Mounting	Single-arm, motorized Alt-Az
Alignment	
Slew Speeds	1x sidereal to Max DC motor in 8 increments
Tripod	Aluminum, full-length; adjustable w/accessory tray
Optical Tube Dimensions	3.5" x 34"
Batteries (user-supplied)	8 x AA, or 12VDC Adapter (Option)
Controller	HandSet (Depend on Config)

DS-20102 / DS-20102-L / DS-20102-H

Optical design. Clear aperture. Focal length. Focal ratio. Resolving power. Mounting. Alignment. Slew Speeds. Tripod. Optical Tube Dimensions. Batteries (user-supplied). Controller.	102 mm 800 mm f/7.8 1.2 arc secs Single-arm, motorized Alt-Az Altazimuth 1x sidereal to Max DC motor in 8 increments Aluminum, full-length; adjustable w/accessory tray 3.5" x 31" 8 x AA, or 12VDC Adapter (Option)
---	---

Astronomical Telescope Start Guide



DS-20081 / DS-20018-L / DS-20081-H DS-20090 / DS-20090-L / DS-20090-H DS-20090DI / DS-20090DI-L / DS-20090DI-H DS-20102 / DS-20102-L / DS-20102-H







- Focus Knob
- Eyepiece Holder
- 3 90°Diagonal Prism
- 4 Eyepiece Holder Thumbscrew
- 5 Eyepiece
- 6 Focus Lock Knob
- Red Dot Viewfinder
- 8 Alignment Screw
- 9 Bubble Compass
- Altitude Lock
- 11 Dew Shield
- 12 Dust Cap

- Optical Tube
- Cradle Ring Lock Knob
 - Cradle Ring
- 16 Mounting Arm and Shaft
- 17 Interface Panel
- 18 Attachment Bolts
- Attachment Bott
- 49 Accessory Tray
- 20 Inner Support Struts
- 21 Tripod Leg Locks
- 22 Tripod Legs
- 23 Tripod Base
- 24 Azimuth Setting Circle

- 25 Battery Compartment
- Base Lock Knob
 - Altitude Setting Circle
- 8 HandSet
 - (Depend on Config)







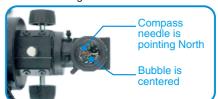
Alignment

BCTO HandSet will ask to input the following information when you power on the first time or after reset. In addition, it is better to confirm the date and time which are set in manufactory.

- Location
- · Daylight savings or standard time
- Telescope Model



Point the telescope tube to Home position, Magnetic North and Level, by losing the Base Lock Knob(26) and Altitude Lock(10). Refer to the bubble compass(9) to verify that tube is level and pointing to the direction of Magnetic North.



When confirm that you have achieved the "Home" position, replace with the 25mm eyepiece in eyepiece holder. Power on the telescope and access the "Easy Align" menu. HandSet selects the first of two

alignment stars, and will emit an audible "beep" when it has completed slewing. Look through the red dot finder, a bright star will be in the field of view. Use the arrow keys to put the red dot on the star. Looking through the eyepiece, focus to see the object. Center that star, using the arrow keys. Press <ENTER> key when completed. If an object obstructs the view of <DOWN SCROLL> key and HandSet will slew to another alignment star.

Repeat for the second alignment star.

When you have successfully center two alignment stars, HandSet will display "Alignment Successful".

Refer to HandSet Instruction Manual for more detail.