



## **Bluetooth & WiFi DSC System**

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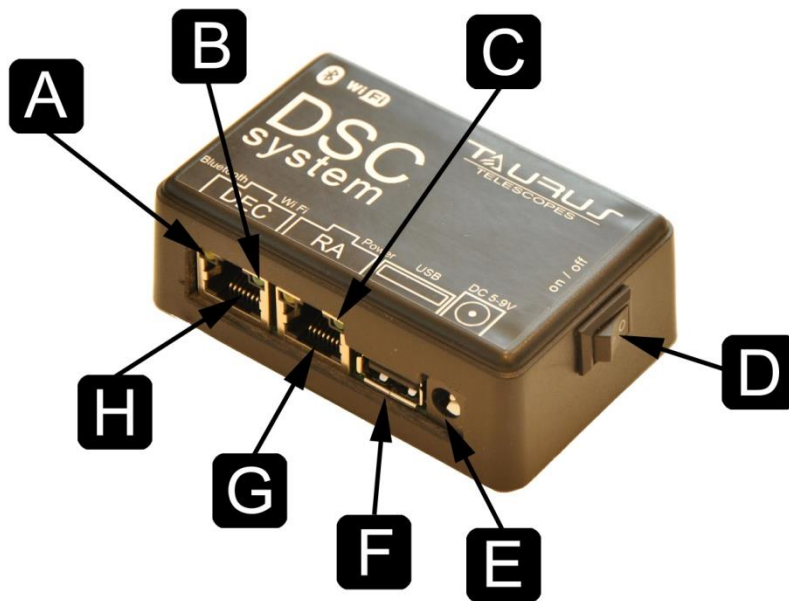
## **1. Description**

Taurus DSC (Digital Setting Circles) is an object guidance system that, in combination with an astronomical application, helps to quickly locate any object on the sky map. The system constantly monitors the position of the telescope using the encoders located in its two axes. This information is transferred to a computer or mobile device and processed by the application, thanks to which the telescope position indicator is displayed on the screen in real time. Just select an object from the list or indicate it on the screen, and the application will indicate exactly in which place you should point the telescope.

## 2. Elements of the system



1. Two cables for connecting encoders
2. Two encoders 8192 PPR
3. DSC module
4. USB power cable
5. Adapter for mounting the arm
6. Arm defining the center of the axis Alt



A - Bluetooth Status LED

B - WiFi Status LED

C - Power Status LED

D - On / Off switch

E - 5-9VDC Connector  $\ominus \oplus$  (optional)

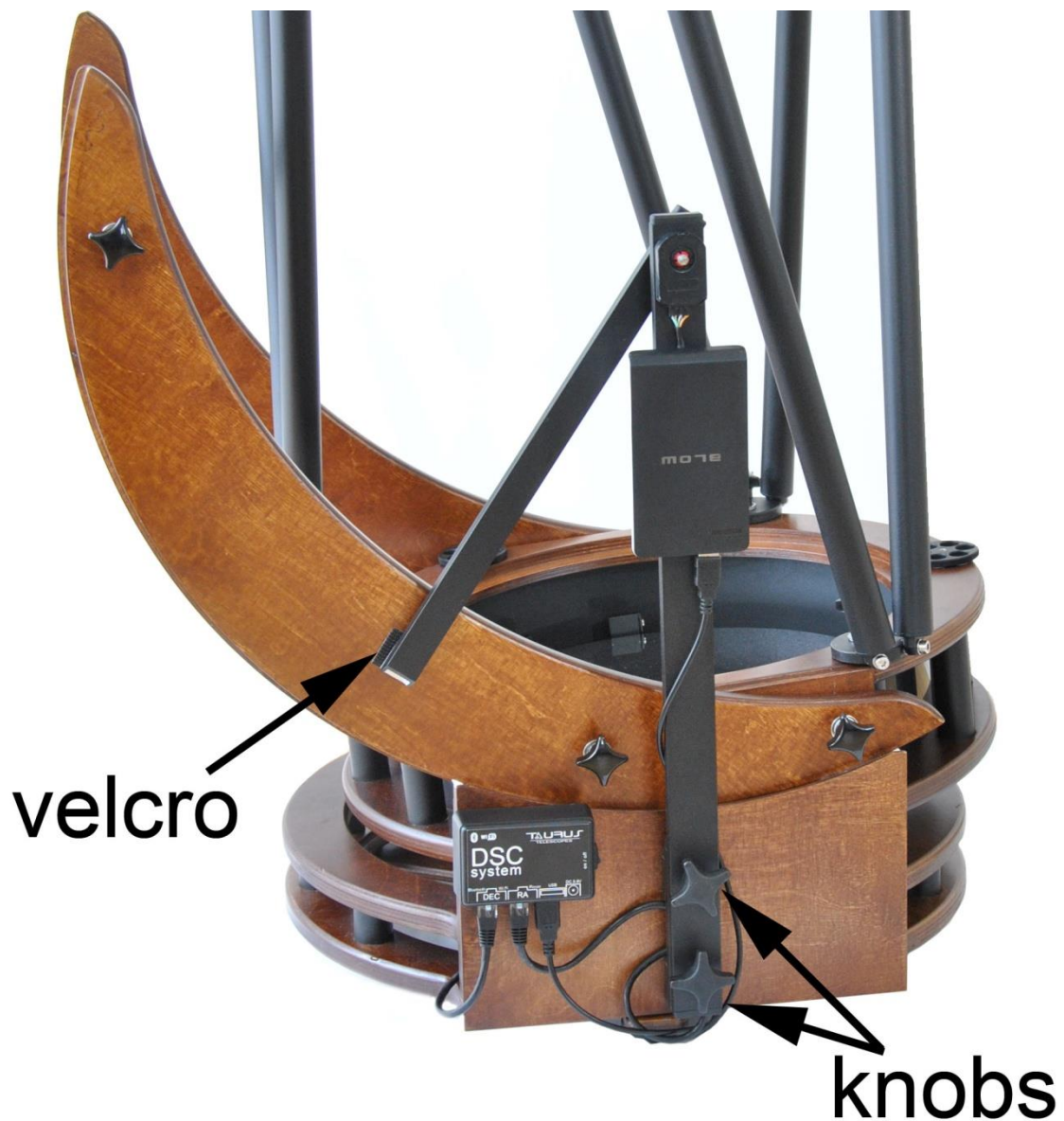
F - USB Power Supply

G - RJ45 Connector for RA / Azm axis encoder

H - RJ45 Connector for DEC / Alt axis encoder

### 3. Assembly

When the telescope is folded and ready to work, attach the arm with the DEC axis encoder. To do this, screw the two knobs and connect Velcro. Connect the encoder and power wires as shown in the figure above. The battery is not included. Set the switch to the on position. The power-on LED will light up.



## 4. Configuration

Taurus DSC System works with devices based on Android, Windows and iOS. Communication with Android and Windows - comes via Bluetooth or Wifi. Communication with iOS devices (iPad, iPhone, MAC) only via WiFi network

### 4.1 Bluetooth connection on Android and Windows devices:

1. Make sure that Bluetooth on your device is on
2. Find Taurus DSC Devices
3. Pair devices with each other by entering the password: 123456

### 4.2 WiFi connection on Android, iOS and Windows devices

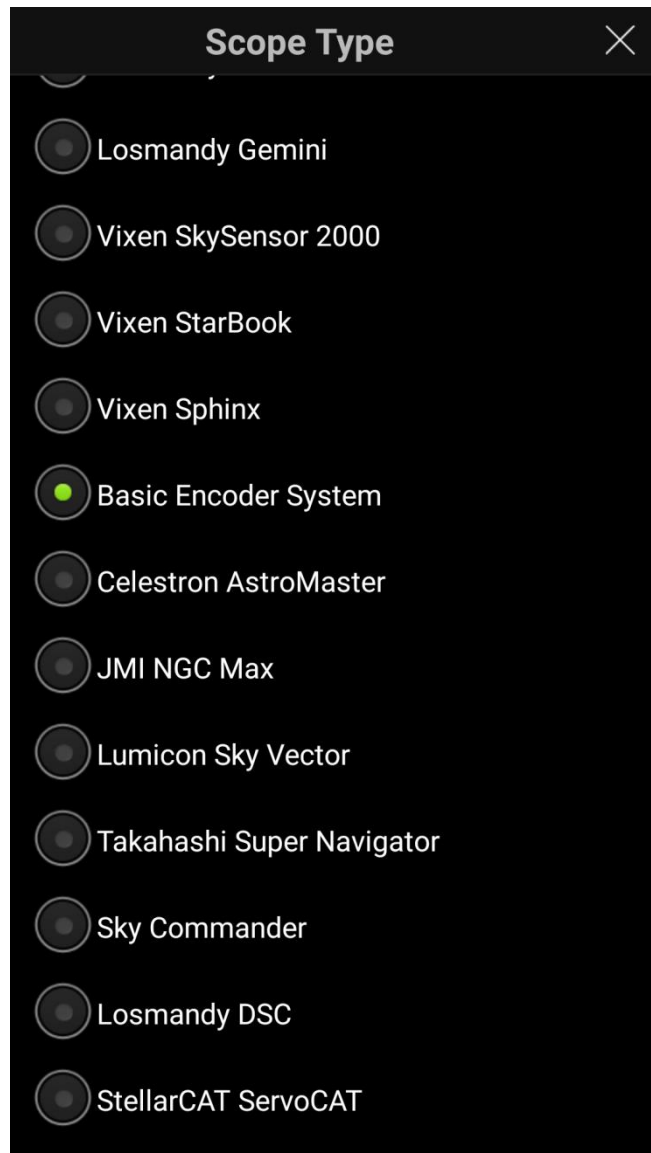
1. Make sure WiFi is enabled on your device.
2. Find and connect to the Taurus DSC network by entering the password: 12345678
3. You can connect up to 4 devices at the same time.

## 5. SkySafari Configuration

SkySafari user manual is available online at: <http://skysafariastronomy.com>

1. Connect the device to the DSC System via WiFi or Bluetooth (Android only)
2. Launch the SkySafari application and go to the **Settings** tab
3. In the **Telescope** section select **Setup**

#### 4. Set **Scope Type** -Basic Encoder System



5. In the **Mount Type**, select **Alt-Az. Push-To** and enter the resolution of the encoders: 8192

### Mount Type

Equatorial Push-To

Equatorial GoTo (Fork)

Equatorial GoTo (German)

Alt-Az. Push-To on Equ. Platform

Alt-Az. Push-To

Alt-Az. GoTo

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**Encoder Steps Per Revolution**  
(Plus = clockwise; Minus = counterclockwise)

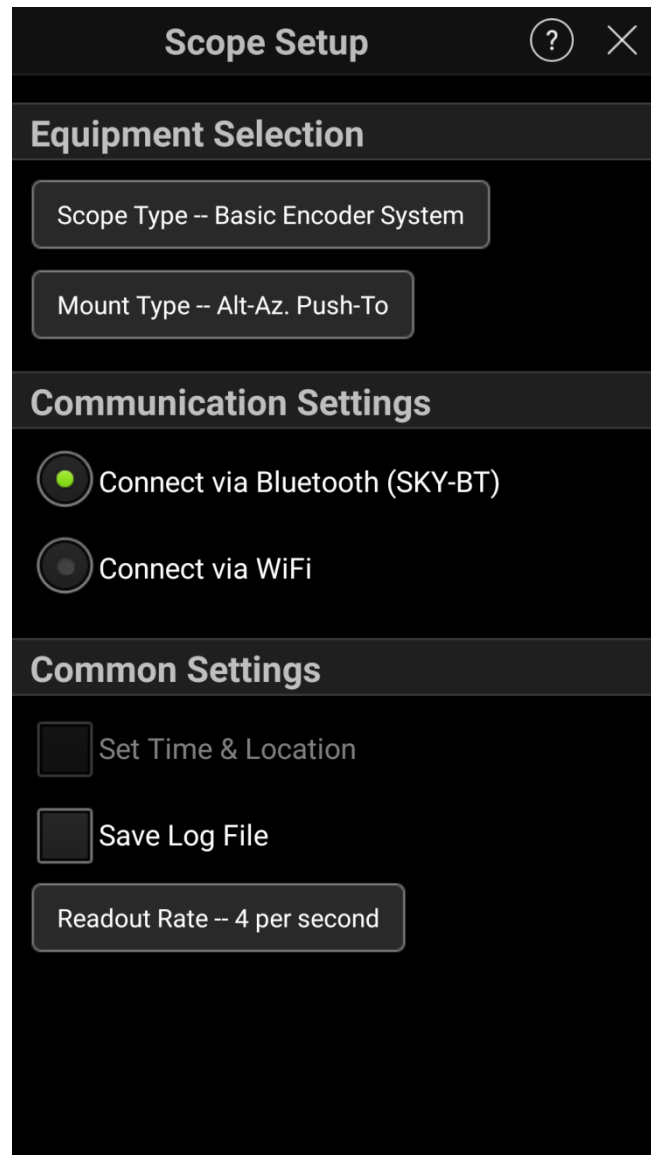
RA/Azm:

Dec/Alt:

Get Automatically



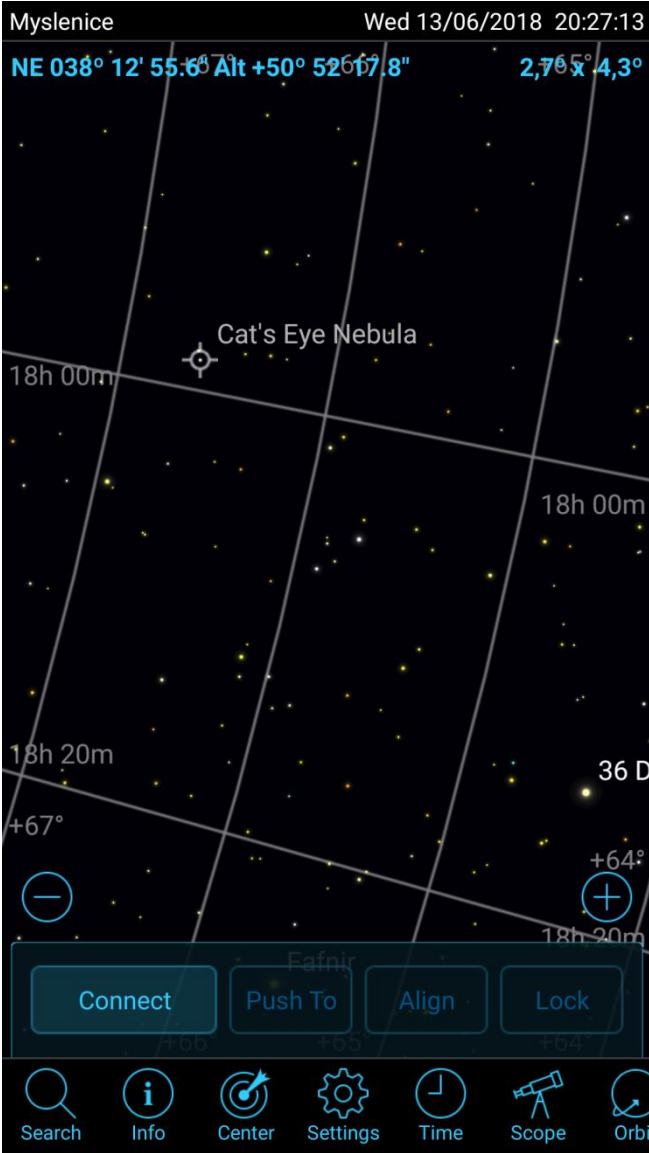
6. In the **Communication Settings** section for the Bluetooth connection, point to the SKY-BT device.



7. For the WiFi connection, enter: IP Address - 192.168.4.1 Port Number - 4030  
Make sure that the Auto-Detect SkyFi option is unchecked.

The screenshot displays the 'Scope Setup' application interface. At the top, the title 'Scope Setup' is centered, with a help icon (question mark in a circle) and a close icon (X) to its right. The interface is divided into three main sections: 'Equipment Selection', 'Communication Settings', and 'Common Settings'.  
1. **Equipment Selection**: This section contains two dropdown menus. The first is labeled 'Scope Type -- Basic Encoder System' and the second is labeled 'Mount Type -- Alt-Az. Push-To'.  
2. **Communication Settings**: This section features two radio buttons for connection methods: 'Connect via Bluetooth' (which is unselected) and 'Connect via WiFi' (which is selected, indicated by a green dot). Below these is an unchecked checkbox for 'Auto-Detect SkyFi'. Further down are two text input fields: 'IP Address' with the value '192.168.4.1' and 'Port Number' with the value '4030'. A button labeled 'SkyFi Web Page' is positioned below the input fields.  
3. **Common Settings**: This section is partially visible at the bottom, showing an unchecked checkbox for 'Set Time & Location' and another unchecked checkbox below it.

8. Return to the home screen and press **Connect**. You should hear a sound and a round telescope position indicator will appear on the screen. The connection will also be signaled by the appropriate diode on the box.



9. If the pointer moves in the opposite direction to the telescope's movement, change the character before the given resolution of the encoders

### Mount Type

**Mount Type**

Equatorial Push-To

Equatorial GoTo (Fork)

Equatorial GoTo (German)

Alt-Az. Push-To on Equ. Platform

Alt-Az. Push-To

Alt-Az. GoTo

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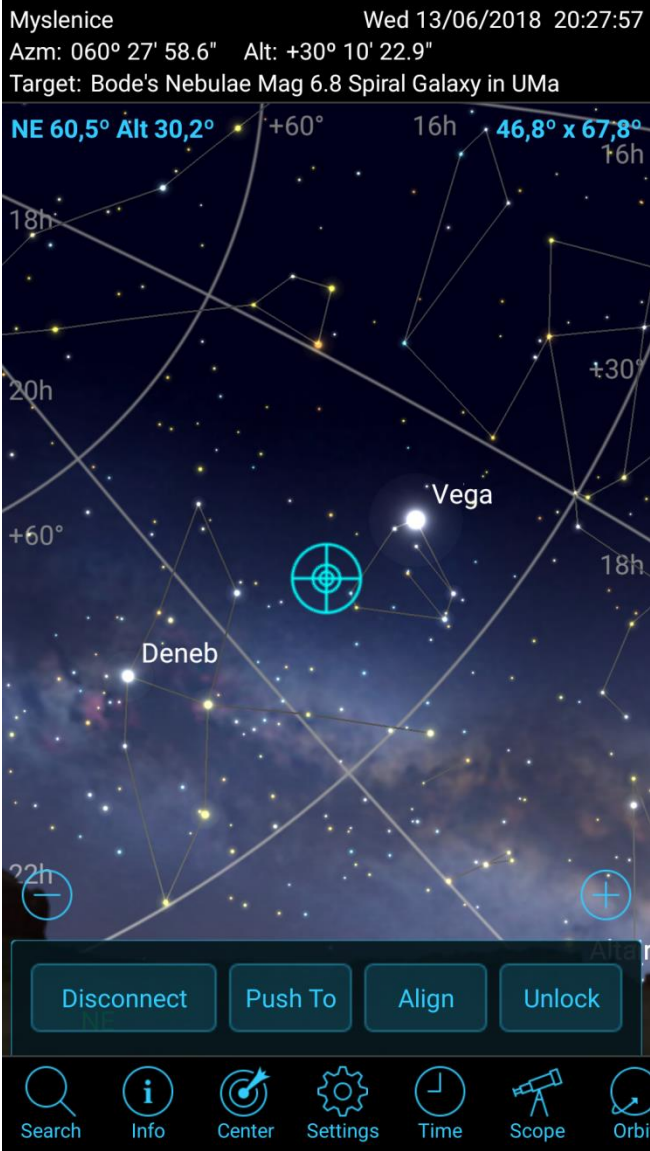
**Encoder Steps Per Revolution**  
(Plus = clockwise; Minus = counterclockwise)

RA/Azm:

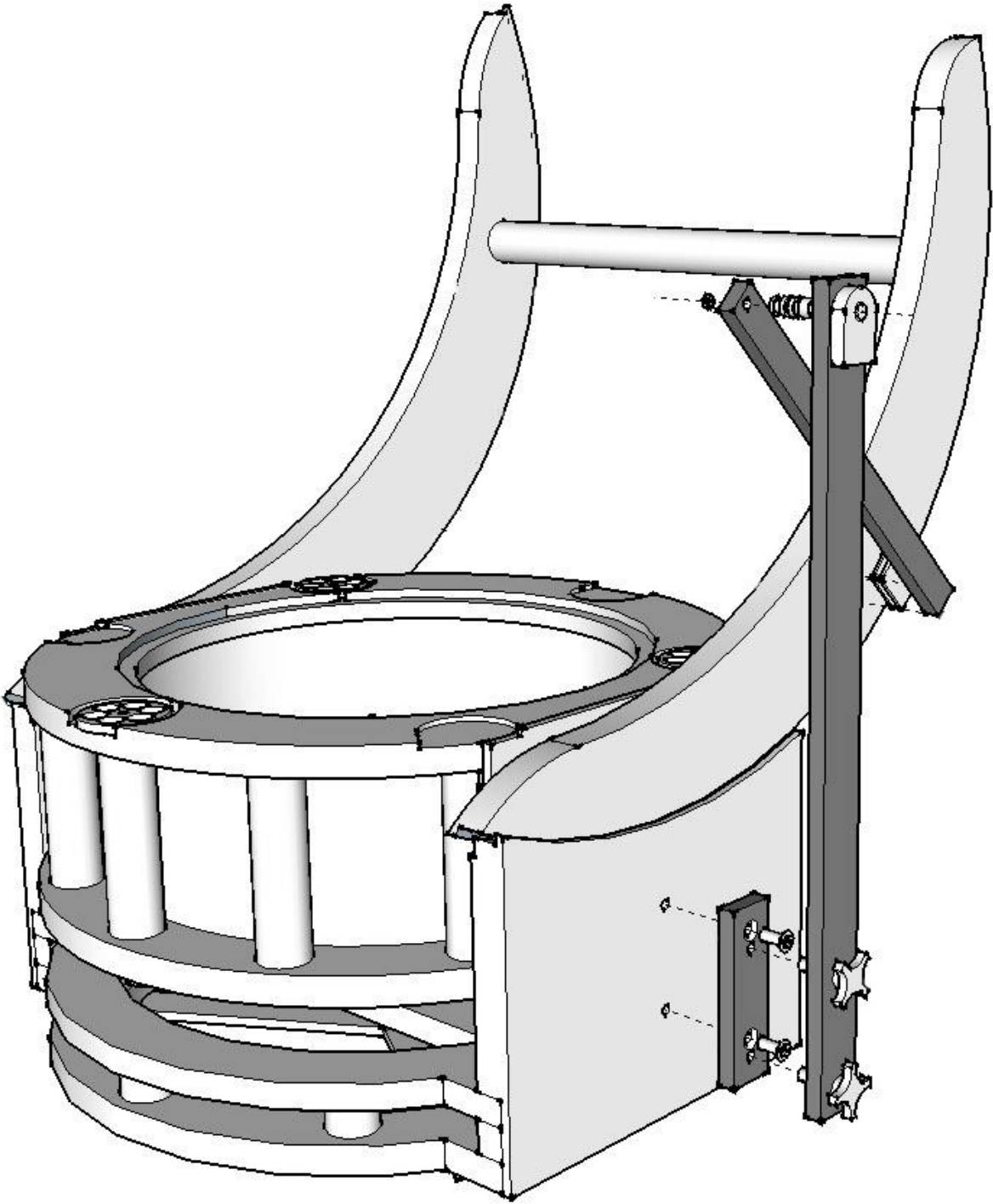
Dec/Alt:

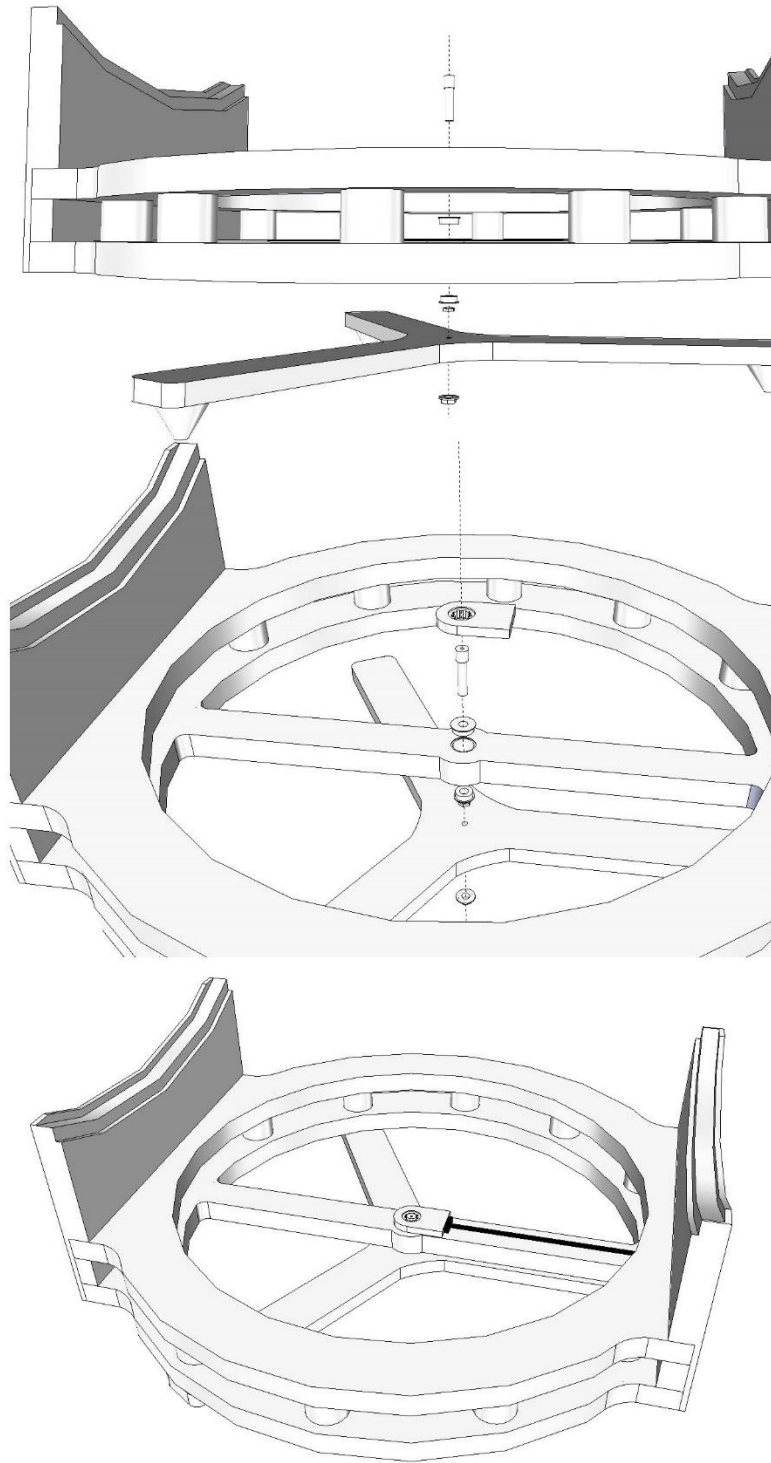
Get Automatically

10. Now your telescope is connected to SkySafari. Point the telescope to any object in the sky, point it on the application screen and select **Align**. Optionally, you can select another object which will increase the precision of aiming.



11. Now you can easily find any star, galaxy, satellite or comet.





Specifications Subject to Change Without Notice

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