

# 1 Installation

## 1.1 Receiver Module

The Receiver module (Fig. 2) connects to your Celestron GOTO telescope's AUX port and Technical Innovations' Robofocus (or some other supported focuser) control box. There is no need for any external power supply since the unit is powered from the telescope's port (Fig. 1). Use the straight cable provided with the unit to connect the "Telescope" port of the Receiver module to the AUX port of the telescope (any AUX port will work if there is more than one on your telescope).

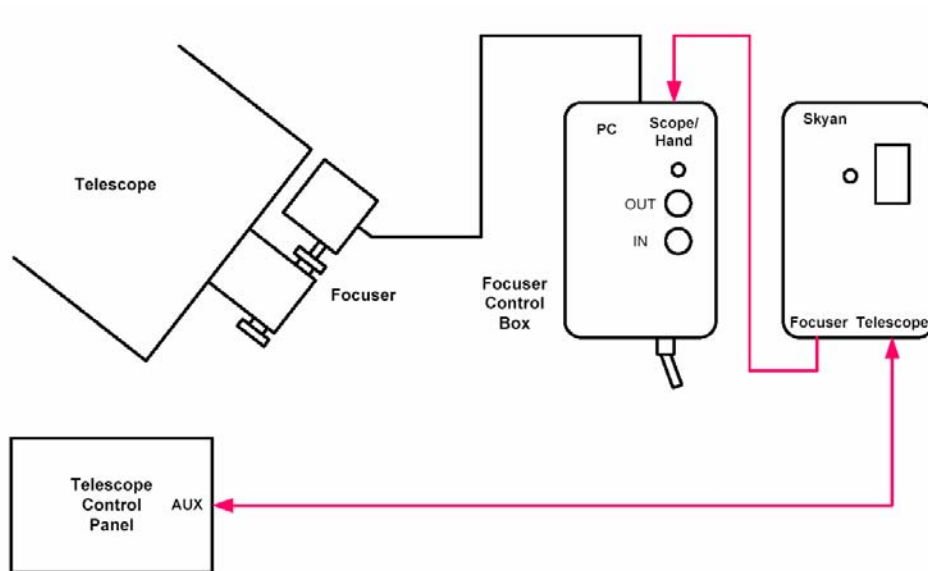


Fig. 1

For mounting the receiver module on the telescope or tripod/pier you may use the self-adhesive fastener set provided in the Skyan package.

## 2 Operation

### 2.1 Receiver Module

#### 2.1.1 Indicators

The mode indicator (Fig. 2) indicates the mode of operation. When the indicator is OFF, the module is in the "Normal" mode of operation (direction buttons are used to control the telescope motion). When the indicator is ON, the module is in the "Command" mode of operation (setting the telescope speed rate and focuser position).

The speed indicator (Fig. 2) displays the speed rate of the telescope. When you use the direction buttons, the telescope will move at the rate selected in the "Command" mode and displayed on this 7-segment indicator.

The RF link indicator (Fig. 2) is ON whenever the receiver receives a signal from the RF Remote control. This indicates that there is a valid link between the RF Remote control and the Receiver module.



Fig. 2



Fig. 3

### 2.1.2 Buzzer

There is an internal buzzer that assists the user during operation of the unit in the "Command" mode.

When you enter the "Command" mode, one short beep will be generated. When you exit the "Command" mode, two short beeps are generated.

Every time the speed rate is changed, you will hear a short beep. Once you reach either the maximum (9) or the minimum speed rate (1), each additional press will generate a long beep to warn you that the maximum/minimum speed has been reached.

If, at any point, the serial communication between the Receiver Module and telescope is lost, the buzzer will generate five short beeps and the speed indicator will display the "E" character for 5 seconds.

## 2.2 RF Remote Control

The RF Remote control (Fig. 3) has five buttons (S1-S5) and transmits commands to the Receiver module which is connected to your telescope and focuser.

There are four direction buttons (S1-S4) with the same functionality as on the regular HC from Celestron. You are able to move the telescope up and down (ALT controller) and left to right (AZM controller) at the speed rate displayed on the front panel of the Receiver module.

The fifth button in the center (S5) is used to change the mode of operation. When the "Mode" indicator on the front panel of the Receiver module is OFF, the unit is in the "Normal" mode of operation: four direction buttons move the telescope in the desired direction at the speed rate displayed on the Receiver's module front panel. When the "Mode" indicator is ON, the unit is in the "Command" mode of operation, where you can change the speed rate and command the focuser IN and OUT.

## 2.3 Normal Mode

In this mode, you use four direction buttons (S1-S4) to move the telescope LEFT (S1), DOWN (S2), RIGHT (S3) and UP (S4). If you use the telescope in equatorial mode then buttons S1 and S3 control RA movement (AZM motor controller) and S2 and S4 DEC movement (ALT motor controller). This is a default mode of operation after powering the telescope on.

**Note:** *You may use the RF Remote Control simultaneously with either the regular HC or NexRemote during the alignment and calibration, "Precise GoTo", "Sync" and other similar commands supported by your mount.*

As with the original HC, you are able to use the maximum speed rate (9) regardless of the current setting if you press the opposite direction button while moving at the selected speed. The maximum speed will be maintained as long as you keep the opposite button pressed.

If you want to change the speed rate, you need to enter the "Command" Mode.

## 2.4 Command Mode

When you press the central button (S5), Skyan will enter the "Command" mode and the "Mode" indicator on the front panel of Receiver module will light up. The short beep will sound at the same time.

In order to exit the "Command" Mode, you need to press the central button again. The indicator "Mode" will go OFF and two short beeps will sound.

With every press of the central button, the mode will toggle. The beeper will sound once when entering the "Command" mode and two times when exiting it.

### 2.4.1 Speed Rate

By pressing the UP direction button (S4), you may increase the speed rate by one step with each press. Every time the speed rate is changed, you will hear a short beep. Once you reach the maximum speed rate (9), each additional press will generate a long beep to warn you that the maximum speed has been reached.

By pressing the DOWN (S2) direction button, you may decrease the speed rate by one step with each press. Every time the speed rate is changed, you will hear a short beep. Once you reach the minimum speed rate (1), each additional press will generate a long beep to warn you that the minimum speed has been reached.

### 2.4.2 Focuser

The focuser is controlled by the LEFT (S1) and RIGHT (S3) direction buttons. By default, the LEFT button performs the IN focuser operation and the RIGHT button performs the OUT focuser operation (Robofocus defaults).

**Note:** *For complete instructions please read the User Manual supplied on the mini CD in your Skyan package, or download the manual from our Web site.*

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