

## INTRODUCTION TO SKYFI 3

SkyFi 3 is a Wireless Telescope Controller that allows wireless connection to your telescope mount. It is used in combination with the SkySafari Plus or SkySafari Pro app which is available for purchase on the iOS and Android platform through the iTunes and Google Play store. To fully utilize SkyFi 3, download SkySafari Plus or SkySafari Pro and become familiar with the app before you connect SkyFi 3 to the telescope.

## BEFORE USING SKYFI 3

Charge SkyFi 3 before use! Plug in the included AC adapter into SkyFi 3's micro-USB port (3, Fig. 2) to charge. SkyFi 3 will be fully charged once its charging indicator LED (3, Fig. 1) turns off. Charging time will depend on initial battery level. When fully charged, SkyFi 3's internal rechargeable lithium ion battery should last about 10 hours depending on usage.

## POWERING SKYFI 3 ON & OFF

To turn SkyFi 3 on and off, press and release the center on/off button (2, Fig. 1). The power LED (1, Fig. 1) will illuminate when on.

## CONFIGURING SKYFI 3

SkyFi 3's default settings allow quick connection to the telescope without worrying about security passwords. Just power on SkyFi 3 and connect to the "SkyFi 3" network using a phone or tablet. SkyFi 3 connection will occur without passwords using the default settings.

To enable password protection or security features, power SkyFi 3 on, connect to the "SkyFi 3" Wi-Fi network, open your web browser and go to the following address <http://10.0.0.1>. The SkyFi 3 webpage will load and various security and firmware settings can be configured. You can configure SkyFi directly from SkySafari Plus or SkySafari Pro by going to Settings > Setup > SkyFi Settings Web Page.

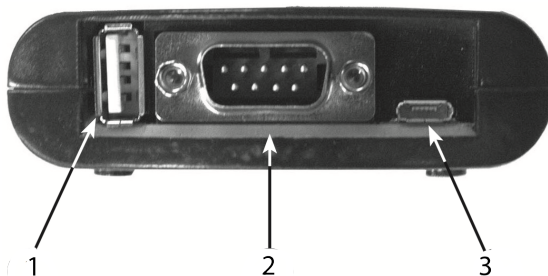
Figure 1. SkyFi 3 (Top View)

- (1) Power LED
- (2) On/Off Button
- (3) Charging LED
- (4) Data LED



Figure 2. SkyFi 3 (Side View)

- (1) USB-A Port
- (2) DB9 Serial Port
- (3) Micro-USB Port



## CONNECTING SKYFI 3 TO YOUR TELESCOPE

Connect SkyFi 3 to your telescope using the required cables.

With USB telescopes, use a standard USB cable to connect SkyFi 3's USB "A" port (1, Fig. 2) to the telescope's USB "B" port. On Meade LS telescopes, the USB "B" port is on the mount base. With iOptron telescopes, the USB "B" port is on the GOTONova hand controller.

With serial telescopes, you'll need a serial cable to connect your telescope's RS-232 port to a standard PC DB9 Male serial port. Different telescopes require different serial cables. Simulation Curriculum sells serial cables for the more common telescope mounts.

1. Connect your telescope serial cable to the RS-232 port on your telescope. On most telescopes, the RS-232 port is a 4- or 6-wire modular ("telephone") jack. On Meade LX-200 and LX-400 telescopes, the RS-232 port is located on the mount base. On almost all others (e.g. Meade telescopes with #497 AutoStar controllers, Celestron telescopes with NexStar controllers, Orion and SkyWatcher telescopes with Synta controllers), the RS-232 port is located on the bottom of the hand controller. See note below.
2. Connect the other end of your telescope's serial cable to the DB9 male connector on SkyFi 3's serial port.
3. Turn on your telescope, and perform any telescope alignment procedures that you would normally perform. See your telescope user manual for instructions on how to align your telescope.

**IMPORTANT: Do not connect SkyFi 3 to the AUX port, handbox port, autoguider port, or any port on your telescope (or its hand controller) other than its RS-232 serial port. Doing so may damage SkyFi 3 and/or your telescope hardware. Make sure you know where the RS-232 serial port on your telescope is located, and only connect SkyFi 3 to that port.**

## USING SKYFI 3 TO CONTROL YOUR TELESCOPE

1. Once SkyFi 3 is connected to your previously aligned telescope, power the SkyFi 3 Wireless Telescope Controller on and open the SkySafari Plus or SkySafari Pro app.
2. In the app **Settings** tab, navigate to the Setup page under Telescope. Select the correct telescope model, mount type, and SkyFi 3 communications settings.

**NOTE:** If you wish to use a static IP address and port number to configure SkyFi 3, the default IP Address is 10.0.0.1, and the default Port Number is 4030. If you have configured SkyFi 3 to use a different IP address or port number, enter those same values in SkySafari.

3. Tap the **Scope** button in the toolbar to show the Scope Control Panel. Then tap **Connect** to begin communication with the scope.
4. You can now use SkySafari Plus or SkySafari Pro to point your telescope to any object shown above the horizon. Select any object in the chart that is above the horizon and tap **GoTo** to move the telescope to that object in the sky.
5. When finished using SkyFi 3, disconnect from the telescope and press the On/Off (2, Fig. 1) button on SkyFi 3 to power off.

## RESETTING SKYFI 3 TO THE FACTORY DEFAULTS

1. Power on SkyFi 3.
2. Press and hold the center button for 5 seconds, then release. The data LED (4, Fig. 1) will begin to flash slowly. When SkyFi 3 has completed the reset it will flash quickly.
3. Release the center button and SkyFi 3 will power down.
4. SkyFi 3 has now been configured to its factory settings.

## LED INDICATORS

The power LED is always illuminated when there is power. The data LED will blink once per second, when the battery is below approximately 25% full power.

