

YOU WILL NEED

- An AC outlet to charge your telescope using the supplied international AC power adapter (works with US, UK, EU, and AU format outlets)
- An Apple iOS device running iOS 16 or higher or an Android device running Android 12 or higher
- The Celestron Origin app, available free on the Apple App Store or Google Play

⚠ SOLAR WARNING

- Never point Origin directly at the Sun (unless you have an approved solar filter). Permanent and irreversible damage to the camera or optics may result.
- Never leave Origin unsupervised. Make sure an adult who is familiar with its correct operating procedures is with Origin at all times, especially when children are present.

PARTS LIST

1. Origin tube assembly
2. Lens shade
3. Altitude clutch knob
4. Azimuth clutch knob
5. Origin mount
6. Full-height tripod
7. Bubble level
8. Tripod leg brace
9. Tripod leg height adjustment knobs
10. AUX port cable
11. Origin camera
12. Camera cable
13. AC adapter (not shown)

DOWNLOAD THE APP

You can find the Celestron Origin app by searching for it on the Apple App Store or Google Play or by scanning the QR code below.



Charging Origin

Origin's built-in lithium battery usually ships with a 25% charge. We recommend that you plug the charging cord into a wall outlet and allow Origin to fully charge before using it the first time.

1. Choose the appropriate wall outlet plug and slide it into the AC adapter body until it snaps in place.
 2. Plug the adapter into an AC wall outlet.
 3. Plug the end of the AC adapter into the 12V DC power port at the base of the fork arm.
- The battery lamp will pulse to show the unit is charging. When charging is complete, the battery light will remain steadily lit.



Setting Up the Tripod



1. Spread the tripod legs and stand the tripod upright.



2. Remove the tripod support nut and washer from the central column attached to the top of the tripod.



3. Place the tripod leg brace over the central column so that each of the three arms of the tray is supporting a tripod leg.



4. Thread the nut and washer back onto the threaded column and firmly tighten into place. The tripod leg brace should not be able to move against the tripod.



5. Adjust the height of the tripod by loosening the lock knobs on the end of each tripod leg. Then adjust the leg height as needed and retighten the lock knobs, one leg at a time. Note that you can use the leg index marks to easily level the tripod.



6. Confirm the tripod is level using the built-in bubble level on the tripod head.

Attaching the Mount to the Tripod



1. Position the fork arm mount over the center post on the tripod head. Do not let go of the mount until it has connected with the center post. The mount should not wobble.



2. With the mount resting on the tripod head, rotate the mount until the three mounting sockets align. The sockets will click into place, indicating they are aligned.



3. Thread the three captive mounting bolts from underneath the tripod head into the bottom of the telescope base.

Attaching the Origin Tube to the Mount



1. Unlock the altitude clutch by loosening the black altitude clutch lock knob.



2. Rotate the altitude axis until the quick-release knob faces downward. Then retighten the altitude clutch lock knob.



3. Loosen the quick-release knob a couple of turns to make room for the dovetail on the Origin tube.



4. Slide the Origin tube into the quick-release slot from the back side of the Origin. The fork arm should be on the left side of the optical tube.



5. Keep hold of the Origin tube and secure it in place by tightening the quick-release knob.



6. Plug the AUX cable from the port on the back of the Origin tube to the AUX port on the narrow side of the mount.

Balancing the Origin Tube Assembly



1. While supporting the Origin tube from underneath so it does not suddenly slide up or down, loosen the altitude clutch knob and carefully release the tube. If your Origin is properly balanced, the tube should remain in a horizontal position when the clutch knob is loosened. If it does, you can move on to the next section of this guide. If the tube moves up or down, proceed to step two.



2. Loosen the altitude clutch knob and rotate the Origin tube until it is parallel with the ground. Tighten the clutch knob.



3. Support the tube's weight with one hand and gently loosen the telescope quick-release knob to allow it to slide on the dovetail bar.



4. Gently slide the tube forward or backward a small amount to balance the scope and tighten the quick-release knob to secure it in place.



5. Repeat these steps until the tube is balanced

Plugging in the Origin Camera



1. Remove the main lens cap by rotating the cap counterclockwise slightly to unlock it. Then, lift the cap straight out to remove it.



2. Remove the foam camera support from inside the lens shade by pulling it straight out. This foam was designed to protect the camera during shipping. You do not need to reinstall it each time you store your Origin. However, we recommend that you hang onto this foam and use it if you ship Origin anywhere in its original packaging.



3. Plug the end of the USB camera cable into the port on the back of the camera.

Using Origin

You are now ready to take your telescope outside and begin your journey into astroimaging.

- 1.** Find a good place to set up Origin. You'll have the most fun and best results in a location that gives you the greatest access to the sky, free from buildings or trees.
- 2.** Turn on your Origin using the switch at the base of the fork arm.
- 3.** Use the WiFi settings in your iOS or Android device to connect to the Origin's WiFi signal, which has the ID "Origin-XXX".
- 4.** The first time you connect, your device will prompt you to enter the Wi-Fi password. The temporary password for the Origin network is "12345555". For your security, you should change this password to something more personal using the options in the Setting Menu. Your device will remember this password, so you will not need to re-enter it the next time you use that device to control Origin.

NOTE: If you connect to Origin's Wi-Fi through the Origin App setup screens, you will not be required to enter the password.

- 5.** Launch the Origin App and follow the on-screen instructions.



Wi-Fi Network Frequency Bands

- **2.4 GHz band:** 2400–2483.5 MHz
- **5 GHz band:** 5150–5850 MHz

Supports **802.11 b/g/n (2.4 GHz)** and **802.11 a/n/ac (5 GHz)** with dual-band capability.

Maximum RF (Radio Frequency) Power

- **2.4 GHz band:**
 - Up to **20 dBm** (≈ 100 mW) EIRP depending on region/regulatory domain.
- **5 GHz band:**
 - Typically, **18–20 dBm** (≈ 63 –100 mW) EIRP depending on channel and region.

The exact transmit power is **limited by regional regulations** (FCC in the U.S., ETSI in the EU, etc.), so the firmware dynamically adjusts the max TX power depending on what country code is set.

FCC NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Product design and specifications are subject to change without prior notification.

This product is designed and intended for use by those 14 years of age and older.



For complete specifications and warranty information, visit: [celestron.com/support/warranties](https://www.celestron.com/support/warranties)

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2835 Columbia Street • Torrance, CA 90503 USA
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