

Unistellar Odyssey Pro

UNISTELLAR Odyssey PRO Smart Telescope User Manual

Model: Odyssey Pro

1. INTRODUCTION TO YOUR UNISTELLAR ODYSSEY PRO SMART TELESCOPE

The UNISTELLAR Odyssey PRO is an advanced digital and computerized smart telescope designed for astronomical observation. It features an 85mm f/3.9 (320mm) optical system, app-controlled motorized Alt-Az mount, and enhanced vision capabilities. This manual provides essential information for setting up, operating, and maintaining your telescope.

The Odyssey PRO integrates an eyepiece for visual observation alongside advanced digital imaging. It is designed for portability, weighing approximately 4 kg for the scope and 2.5 kg for the premium tripod, making it suitable for various observation locations.





Image: The UNISTELLAR Odyssey PRO Smart Telescope mounted on its tripod, ready for observation.

2. WHAT'S IN THE BOX

Please verify that all the following components are included in your package:

- UNISTELLAR Odyssey PRO Smart Telescope unit
- Original Unistellar Tripod
- Dust Cap
- Set of Adjustment Tools

- Charger with Adapters
- Documentation (including this manual)

INCLUDED IN YOUR PACKAGE

- ODYSSEY PRO
- Dust Cap & Eyepiece cover
- Original Unistellar Tripod
- Charger with adapter
- Set of adjustment tools
- Documentation



Image: An illustration showing the UNISTELLAR Odyssey PRO telescope, tripod, charger, adjustment tools, and dust cap.

3. SETUP GUIDE

Setting up your Odyssey PRO is designed to be quick and straightforward, allowing you to begin observing in minutes.

1. **Unpack and Assemble the Tripod:** Carefully remove the tripod from its packaging. Extend the legs and secure them firmly on a stable, level surface.
2. **Mount the Telescope:** Attach the Odyssey PRO telescope unit to the tripod. Ensure it is securely fastened according to the instructions provided in the quick start guide.
3. **Power On:** Locate the power button on the telescope and press it to turn on the device.
4. **Download the App:** Download the official UNISTELLAR app from your device's app store (compatible with iOS and Android).
5. **Connect to the App:** Open the UNISTELLAR app on your smartphone or tablet. Follow the in-app instructions to connect to your Odyssey PRO telescope via Wi-Fi. The telescope will create its own Wi-Fi network.
6. **Automatic Alignment:** Once connected, the telescope will perform an automatic alignment. This process eliminates the need for manual polar alignment or complex calibration.
7. **Begin Observation:** After successful alignment, you are ready to select celestial objects for observation through the app.

URBAN SKYGAZING

REDISCOVER THE STARS, EVEN IN THE HEART OF THE CITY

Thanks to our live image processing algorithms and Deep Dark Technology, light pollution is no longer an obstacle. Observe the stars from the comfort of your own home, making celestial observation part of your daily life, even from the center of a megalopolis.

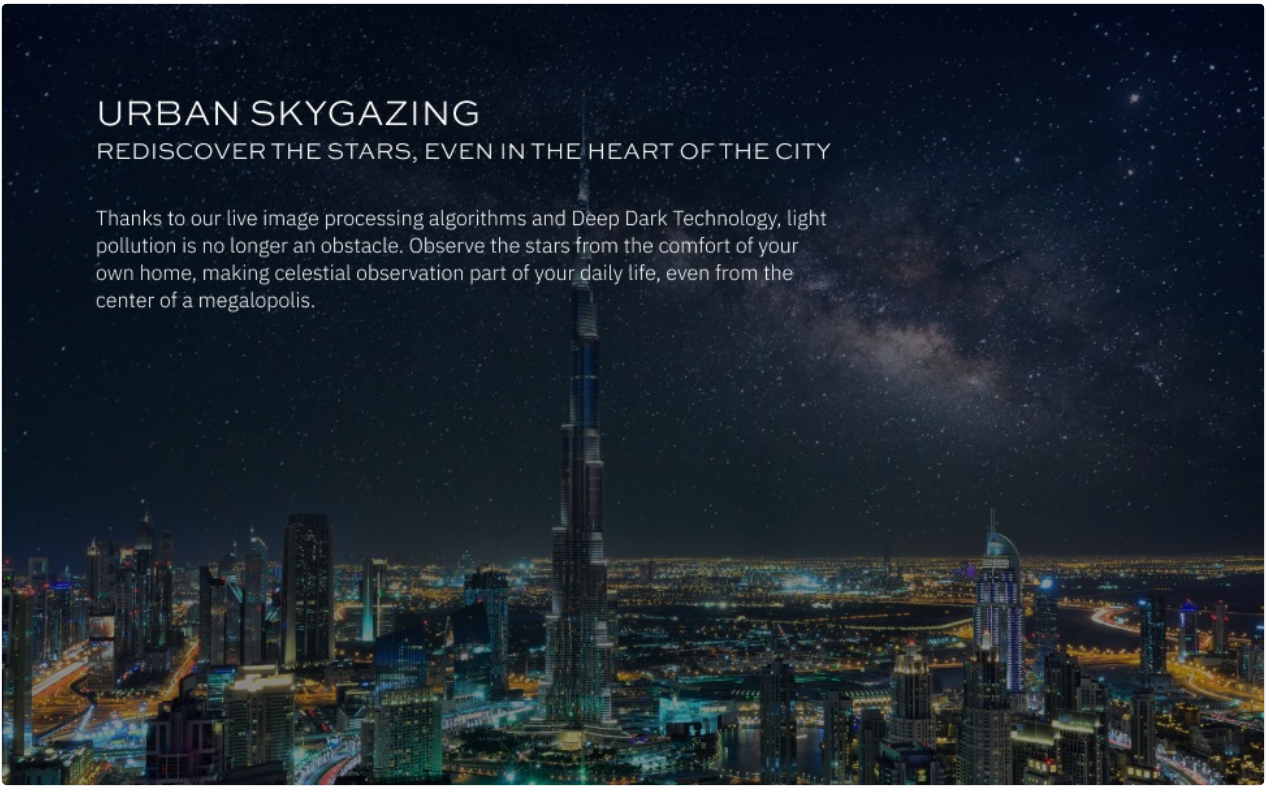


Image: Visual guide illustrating the three simple steps to set up and begin using the telescope.

4. OPERATING YOUR ODYSSEY PRO

4.1. Observing Celestial Objects

The Odyssey PRO features an ultra-precise GoTo system and autofocus, simplifying the observation process. Use the UNISTELLAR app to browse a catalog of over 5,000 celestial objects.

- **Select Target:** In the app, choose an object from the catalog. The telescope will automatically slew (move) to the selected target.
- **Autofocus:** The Stellar AutoFocus technology ensures sharp images without manual adjustment.
- **Enhanced Vision:** The telescope utilizes advanced digital imaging to provide clear views, even in light-polluted environments.
- **Eyepiece Observation:** For an immersive visual experience, use the integrated eyepiece. You can also view observations directly on your connected phone or tablet.

FULLY AUTOMATIC

Enjoy simplified operation thanks to built-in autofocus. Forget about collimation and repetitive adjustments. Discover the Cosmos with unprecedented clarity, as Stellar AutoFocus technology guarantees incredibly sharp images and breathtaking quality observations, even after a long pause.



Image: A detailed view of a nebula, illustrating the automatic focusing capabilities of the telescope.

4.2. Capturing and Exporting Data

The Odyssey PRO allows for digital capture and export of astronomical data.

- **Image Capture:** Use the app to capture images of observed objects.
- **Data Storage:** The telescope includes 64GB of onboard storage for your observations.
- **RAW/FITS Export:** For advanced processing, you can export data in RAW/FITS formats. This feature supports detailed post-processing by experienced users.

LIVE THE MOMENT & SHARE IT WITH EASE

Share your astronomy passion seamlessly with the Unistellar App, simplifying stargazing without bulky accessories. Connect directly to your Smart Telescope, capture and instantly share memorable moments, making astronomy accessible to all.



Image: The UNISTELLAR app interface displaying options for live observation, image capture, and sharing.

4.3. Citizen Science

Participate in citizen science campaigns by joining NASA & SETI initiatives. Your observations can contribute to real discoveries, such as asteroid occultations and exoplanet transits.

5. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your Odyssey PRO telescope.

- **Dust Cap:** Always keep the dust cap on the objective lens when the telescope is not in use to protect it from dust and debris.
- **Cleaning Optics:** Use a soft, lint-free microfiber cloth specifically designed for optical surfaces to gently clean the lens. Avoid harsh chemicals or abrasive materials. For stubborn spots, a specialized optical cleaning solution can be used sparingly.
- **Battery Care:** The integrated battery provides up to 5 hours of operation. Charge the battery fully before

each extended use. Store the telescope in a cool, dry place when not in use for long periods to preserve battery life.

- **Storage:** Store the telescope in its original packaging or a protective case to prevent damage during transport or storage. Avoid extreme temperatures and high humidity.
- **Software Updates:** Regularly check the UNISTELLAR app for software and firmware updates for your telescope to ensure you have the latest features and performance enhancements.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Odyssey PRO.

Problem	Possible Cause	Solution
Telescope does not power on.	Low battery or power cable not connected.	Ensure the battery is charged. Connect the charger and allow it to charge for at least 30 minutes before attempting to power on again.
Cannot connect to the UNISTELLAR app.	Wi-Fi issue, app not updated, or telescope not broadcasting Wi-Fi.	<ul style="list-style-type: none">◦ Ensure the telescope is powered on and its Wi-Fi is active.◦ Check your device's Wi-Fi settings to ensure you are connected to the telescope's network.◦ Restart both the telescope and your smart device.◦ Update the UNISTELLAR app to the latest version.
Images appear blurry or out of focus.	Autofocus issue or environmental factors.	<ul style="list-style-type: none">◦ Ensure the objective lens is clean and free of condensation.◦ Allow the telescope to acclimate to the ambient temperature.◦ Verify that the autofocus function is enabled in the app.
Telescope does not slew to selected object.	Alignment issue or obstruction.	<ul style="list-style-type: none">◦ Ensure the telescope has a clear view of the sky and is not obstructed.◦ Perform a new automatic alignment through the app.◦ Check for any physical obstructions preventing movement.

If you encounter issues not listed here, please refer to the official UNISTELLAR support resources.

7. TECHNICAL SPECIFICATIONS

Feature	Detail
Model Name	Odyssey Pro
Optical Design	Reflector
Objective Lens Diameter	85 mm
Focal Length	320 mm
Focal Ratio	f/3.9
Field of View	33.6 × 45 arcmin
Limiting Magnitude	17.2
Pixel Size	1.45 μm
Resolving Power	1.68"
Sampling	0.93"/px
Telescope Mount	Motorized Alt-Azimuth Mount with GoTo
Focus Type	Autofocus
Finderscope	Automatic
Compatibility	iOS & Android (via UNISTELLAR App)
Connectivity	Wi-Fi
Battery Life	Up to 5 hours (integrated Lithium Ion battery)
Internal Storage	64 GB
Product Dimensions	16.93 x 7.87 x 5.12 inches (43 x 20 x 13 cm)
Item Weight	14.3 pounds (6.5 kg)
Manufacturer	UNISTELLAR
Date First Available	January 2, 2024

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Join the world's largest community of connected telescope users. A worldwide community of amateur astronomers and enthusiasts, sharing discoveries and knowledge, enriching your astronomical experience.

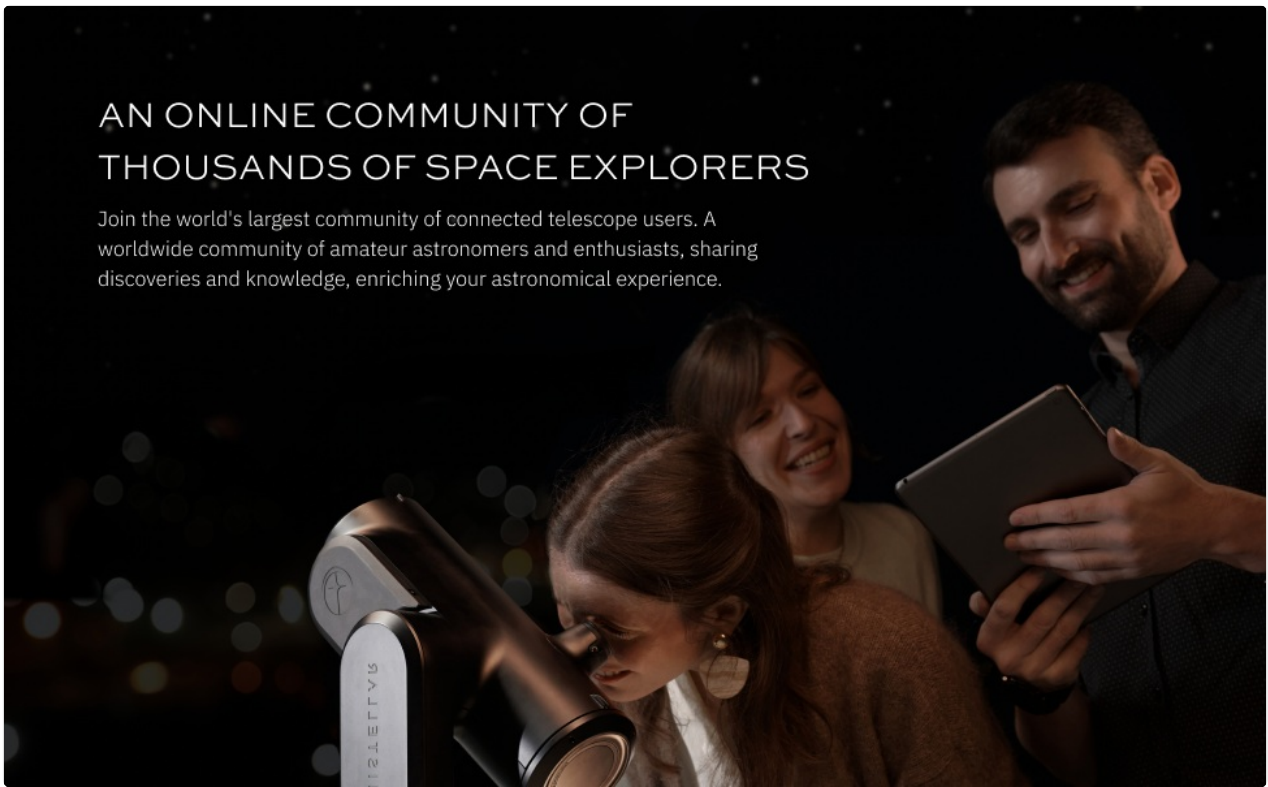


Image: An infographic summarizing the key technical specifications of the Odyssey PRO.

8. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the official documentation included with your product or visit the official UNISTELLAR website. UNISTELLAR provides customer support for technical assistance and service inquiries.

Official Website: For the latest information, FAQs, and support resources, please visit the [UNISTELLAR official website](#).

Contact Support: Refer to the 'Documentation' included in your package for specific contact details or visit the support section of the UNISTELLAR website.