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› Celestron StarSense Explorer DX 5" Telescope User Manual

Celestron 22462-CGL

Celestron StarSense Explorer DX 5" Telescope User Manual

Model: 22462-CGL | Brand: Celestron

INTRODUCTION

The Celestron StarSense Explorer DX 5-inch is an innovative smartphone-enabled Schmidt-Cassegrain telescope designed to simplify stargazing for beginners and experienced observers alike. It utilizes your smartphone to analyze the night sky and calculate the telescope's position in real-time, providing accurate guidance to celestial objects.

This manual provides essential information for setting up, operating, and maintaining your StarSense Explorer DX 5" telescope to ensure optimal performance and enjoyment.

WHAT'S IN THE BOX

Your Celestron StarSense Explorer DX 5" package includes the following components:

- Optical tube
- Mount and tripod (preassembled)
- 25mm eyepiece
- 10mm eyepiece
- Erect image diagonal
- StarPointer finderscope
- Accessory tray
- StarSense Explorer phone dock

Everything you need to get started

- 130mm (5") Schmidt-Cassegrain
- Mount and tripod (preassembled)
- 25mm and 10mm eyepieces
- StarPointer finderscope
- Slow motion controls
- Accessory tray
- StarSense Explorer phone dock
- StarSense Explorer unlock code
- Starry Night Educational Software



Figure 1: All included components of the StarSense Explorer DX 5" Telescope.

SETUP GUIDE

Follow these steps to set up your Celestron StarSense Explorer DX 5" telescope:

1. **Unpack Components:** Carefully remove all items from the packaging and verify against the "What's in the Box" list.
2. **Set Up Tripod:** Extend the tripod legs to a stable height. The mount is preassembled to the tripod.
3. **Attach Accessory Tray:** Secure the accessory tray to the tripod's center brace.
4. **Install Finderscope:** Attach the StarPointer finderscope to the optical tube.
5. **Insert Eyepiece:** Insert either the 25mm or 10mm eyepiece into the erect image diagonal, then insert the diagonal into the telescope's focuser.
6. **Attach StarSense Phone Dock:** Securely attach the StarSense smartphone dock to the telescope.



Figure 2: Fully assembled StarSense Explorer DX 5" Telescope.

For detailed assembly instructions, refer to the quick setup guide included with your telescope.

OPERATING YOUR TELESCOPE

Using the StarSense Explorer App

The StarSense Explorer app is central to the operation of your telescope. It uses patented sky recognition technology to guide you to celestial objects.

1. **Download the App:** Download the StarSense Explorer app from the Google Play Store or Apple App Store.
2. **Dock Your Smartphone:** Securely place your smartphone into the StarSense phone dock on the telescope.
3. **Launch and Align:** Launch the app and follow the on-screen instructions to align your phone with the telescope optics. The app analyzes star patterns to pinpoint the telescope's exact position in real-time.
4. **Select a Target:** The app will generate a curated list of the best objects to view based on your current time and location. Select an object from this list.
5. **Navigate to Target:** Follow the on-screen arrows in the app to manually move your telescope towards the selected object. When the bullseye turns green, your target is centered in the eyepiece.
6. **Observe:** Look through the eyepiece to view the celestial object. Use the focuser knob to achieve a sharp image.

EASY AS 1-2-3

1 DOCK
YOUR SMARTPHONE

2 LAUNCH
THE STARSENSE EXPLORER APP

3 OBSERVE
STARS, PLANETS AND MORE



SMARTPHONE NOT INCLUDED

Follow the Arrows to center your target in the eyepiece

Figure 3: Easy 1-2-3 steps for using the StarSense Explorer app.

Patented, Award-winning StarSense Sky Recognition Technology

uses your smartphone to analyze star patterns overhead and calculate the telescope's position in real-time.



Figure 4: StarSense Sky Recognition Technology in action.

Eyepiece Usage and Magnification

Your telescope comes with two eyepieces: a 25mm and a 10mm. The 25mm eyepiece provides lower magnification and a wider field of view, ideal for locating objects and observing larger celestial bodies like the Moon. The 10mm eyepiece offers higher magnification for more detailed views of planets and smaller deep-sky objects.



Figure 5: Magnification comparison with 25mm and 10mm eyepieces.

MAINTENANCE AND CARE

Proper care and maintenance will ensure the longevity and optimal performance of your telescope.

- **Cleaning Optics:** Use a soft, lint-free cloth specifically designed for optical surfaces. Avoid touching the optical surfaces with your fingers. For stubborn smudges, use a specialized optical cleaning fluid sparingly.
- **Storage:** Store the telescope in a dry, dust-free environment. Keep all lens caps on when not in use to protect the optics.
- **Handling:** Always handle the telescope by its main tube or mount, avoiding direct contact with the lenses or mirrors.
- **Environmental Exposure:** Avoid exposing the telescope to extreme temperatures, humidity, or direct sunlight for prolonged periods.

TROUBLESHOOTING

If you encounter issues with your telescope, consider the following common solutions:

- **Blurry Images:** Ensure the focuser knob is adjusted correctly. Atmospheric conditions can also affect image clarity.
- **Difficulty Finding Objects:** Re-calibrate the StarSense app and ensure your phone is securely docked. Verify the finderscope is properly aligned with the main telescope.
- **App Not Connecting/Working:** Check your smartphone's compatibility (iPhone 6 and up, most Android phones from 2016 or later running Android 7.1.2 or newer). Ensure the app is updated to the latest version.
- **Shaky View:** Ensure the tripod is set up on a stable, level surface. Tighten all knobs and screws on the mount and tripod.

For further assistance, please refer to the official Celestron support resources or contact their customer service.

SPECIFICATIONS

Feature	Detail
Model Name	StarSense Explorer DX 5" Smartphone App-Enabled Schmidt Cassegrain Telescope
Optical Tube Length	330 Millimeters
Objective Lens Diameter	5 Inches (130mm)
Eyepiece Lenses	25mm and 10mm eyepieces
Telescope Mount Description	Altazimuth Mount with dual-axis slow-motion controls
Finderscope	Reflex (StarPointer)
Focus Type	Manual Focus
Power Source	Manual Operation Without External Power Source
Product Dimensions	34 x 32 x 52 inches (86.36 x 81.28 x 132.08 cm)
Item Weight	14.6 pounds (6.62 kg)
Smartphone Compatibility	iPhone 6 and up, most Android phones from 2016 or later running Android 7.1.2 or newer



Optical Tube
5 lbs (2.26 kg)

Mount & Tripod
9.6 lbs (4.35 kg)

Total Kit
14.6 lbs (6.62 kg)



Figure 6: Telescope dimensions and weight breakdown.

WARRANTY AND SUPPORT

Your Celestron StarSense Explorer DX 5" Telescope comes with a **2-Year US Warranty**. This warranty covers defects in materials and workmanship under normal use.

For technical assistance, product inquiries, or warranty claims, please contact Celestron's customer support team.

Unlimited support is available from our team of US-based experts.

Visit the official Celestron website for the most up-to-date support information and contact details:

www.celestron.com/support

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question