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## Celestron 93982

# Celestron NexStar+ Hand Control 93982 User Manual

For Equatorially Mounted NexStar Telescopes

## 1. INTRODUCTION

The Celestron NexStar+ Hand Control is a standard accessory designed for all current equatorially mounted Celestron Go-To telescopes. This includes the Advanced VX, CGEM, CGEM II, CGX, and CGX-L computerized telescope series. This hand control provides access to a vast database of over 40,000 celestial objects, enabling automatic slewing to various astronomical targets.

Key features include the ability to browse objects from Messier, NGC, Caldwell, and SAO brightest star catalogs, as well as planets and popular objects. The Tour Mode assists users in identifying popular objects visible at a given time and date. The NexStar+ also offers setup conveniences such as customizable maximum slew speed, All-Star Polar Alignment, and programmable slew limits. It features USB Flash Upgradeable Technology, allowing software updates via the Celestron Firmware Manager.

## 2. WHAT'S IN THE BOX

Your Celestron NexStar+ Hand Control package includes:

- Celestron NexStar+ Hand Control (Model 93982)

Please note that a mini-USB cable for PC connection is not included and must be acquired separately for software updates.

## 3. SETUP AND INITIAL CONNECTION

### 3.1 Connecting the Hand Control

To connect the NexStar+ Hand Control to your telescope mount, locate the RJ-12 port on your mount's control panel. Insert the coiled cable from the hand control firmly into this port. Ensure the connection is secure before powering on your telescope.



Figure 1: Bottom view of the NexStar+ Hand Control, illustrating the mini-USB port and the coiled cable connection point.

### 3.2 Initial Power-On and Basic Settings

Once connected, power on your telescope. The hand control's LCD screen will illuminate, and you will be prompted to enter basic settings such as date, time, and location. Follow the on-screen instructions to configure these initial parameters. Accurate input of these details is crucial for precise telescope alignment and tracking.

### 3.3 Firmware Updates

The NexStar+ Hand Control features a mini-USB port for direct connection to a PC (cable not included). This allows users to update the hand control's firmware using the Celestron Firmware Manager (CFM) software. Regularly checking for and installing the latest firmware ensures optimal performance and access to new features. Visit the Celestron support website for the latest CFM software and firmware files.

## 4. OPERATING THE NEXSTAR+ HAND CONTROL

### 4.1 Hand Control Layout

The NexStar+ Hand Control features a dual-line, 16-character LCD screen with adjustable backlighting for visibility in various lighting conditions. The buttons are intuitively arranged for easy navigation and object selection.



Figure 2: Front view of the NexStar+ Hand Control, displaying the LCD screen and the arrangement of its control buttons.

## 4.2 Navigating the Database

Use the directional arrow buttons to navigate through menus and lists on the LCD screen. The 'ENTER' button confirms selections, and the 'BACK' button returns to the previous menu. Dedicated buttons allow quick access to categories such as:

- **SOLAR SYSTEM (1):** Access planets, the Moon, and the Sun.
- **STARS (2):** Browse named stars, double stars, variable stars, and other stellar objects.
- **DEEP SKY (3):** Explore Messier, NGC, Caldwell, and other deep-sky catalogs.
- **IDENTIFY (4):** Identify an object the telescope is currently pointing at.
- **SKY TOUR (5):** Initiates a guided tour of the best objects visible for your current time and location.
- **MENU (7):** Access advanced settings, alignment procedures, and utility functions.
- **OBJECT INFO (0):** Displays information about the currently selected object.

## 4.3 Alignment Procedures

Press the 'ALIGN' button to initiate the telescope alignment process. The hand control will guide you through selecting alignment stars or using the All-Star Polar Alignment routine for equatorial mounts. Proper alignment is essential for accurate Go-To and tracking performance.

## 4.4 Customization and Utilities

Within the 'MENU' section, you can customize various settings, including maximum slew speed, programmable slew limits, and display preferences. The 'MOTOR SPEED' button allows for adjustment of the telescope's motor speed for fine adjustments during observation.

# 5. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your NexStar+ Hand Control, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the hand control. For stubborn smudges, a slightly damp cloth with mild soap can be used, followed by immediate drying. Avoid abrasive cleaners or solvents.
- **Storage:** Store the hand control in a dry, dust-free environment when not in use. Protect it from extreme temperatures and direct sunlight.
- **Cable Care:** Handle the coiled cable carefully. Avoid sharp bends or excessive pulling that could damage the internal wires or connectors.

- **Moisture Protection:** The hand control is not waterproof. Protect it from rain, dew, and high humidity.

## 6. TROUBLESHOOTING

If you encounter issues with your NexStar+ Hand Control, consider the following common troubleshooting steps:

- **No Power/Blank Screen:** Ensure the hand control cable is securely connected to the mount and the telescope mount is receiving power. Check all power connections to the telescope.
- **Unresponsive Buttons:** Verify that the hand control is properly connected. If the issue persists, try restarting the telescope system.
- **Inaccurate Go-To/Tracking:** Re-perform the alignment procedure, ensuring accurate input of date, time, and location. Check for any obstructions to the telescope's movement. Ensure the mount is properly balanced.
- **Firmware Update Issues:** Ensure you are using the correct Celestron Firmware Manager (CFM) software and the appropriate firmware file for your hand control. Use a reliable mini-USB cable and ensure a stable connection to your PC.
- **Communication Errors:** If the hand control displays communication errors, disconnect and reconnect the hand control cable. If using a USB connection, ensure the correct drivers are installed on your PC.

For persistent issues, refer to the comprehensive troubleshooting guide available on the Celestron support website or contact Celestron customer support.

## 7. SPECIFICATIONS

Technical specifications for the Celestron NexStar+ Hand Control (Model 93982):

Feature	Detail
Model Number	93982
Compatibility	Celestron Equatorially Mounted NexStar Telescopes (Advanced VX, CGEM, CGEM II, CGX, CGX-L)
Database Size	Over 40,000 celestial objects
Display	Dual line, 16-character LCD with adjustable backlighting
Connectivity	RJ-12 to mount, Mini-USB for PC (firmware updates)
Product Dimensions	10 x 2 x 5 inches (25.4 x 5.08 x 12.7 cm)
Item Weight	9.6 ounces (272 grams)
Manufacturer	Celestron Acquisition LLC
Date First Available	April 7, 2017



Figure 3: Dimensional representation of the NexStar+ Hand Control.

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

Celestron products are typically covered by a limited warranty. Specific warranty terms and conditions, including duration and coverage details, are provided by the manufacturer. Please refer to the documentation included with your product or visit the official Celestron website for the most current warranty information.


### 8.2 Customer Support






For technical assistance, product inquiries, or to report issues, please contact Celestron customer support. Support resources, including FAQs, software downloads, and contact information, are available on the official Celestron website:

[Celestron Support Website](#)

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## Related Documents - 93982

	<p><a href="#">Celestron CPWI Telescope Control Software Instruction Manual</a></p> <p>Comprehensive instruction manual for Celestron CPWI (Computerized Planetarium Software for Windows), detailing setup, connection methods, alignment procedures (including StarSense AutoAlign and All-Star Polar Alignment), slewing to objects, and mount configuration for Celestron computerized telescopes.</p>
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 <p>CELESTRON CPWI TELESCOPE CONTROL SOFTWARE INSTRUCTION MANUAL</p>	<p><a href="#">CPWI Telescope Control Software Instruction Manual</a></p> <p>Comprehensive instruction manual for Celestron's CPWI (Celestron PWI) telescope control software, covering installation, PC requirements, mount compatibility, connection methods, alignment procedures (Manual, StarSense Auto/Manual, All-Star Polar Alignment), slewing, target finding, focus motor control, mount configuration, and other advanced features.</p>
 <p>CELESTRON INSTRUCTION MANUAL NexStar 6SE NexStar 8SE</p>	<p><a href="#">Celestron NexStar 6SE &amp; 8SE Instruction Manual: Your Guide to the Cosmos</a></p> <p>Comprehensive instruction manual for Celestron NexStar 6SE and 8SE computerized telescopes. Learn assembly, operation, alignment, and celestial observing techniques for amateur astronomers.</p>
 <p>CELESTRON NexStar SE INSTRUCTION MANUAL REV. 4-100 800-112 REV. 4-100 800-112</p>	<p><a href="#">Celestron NexStar SE Instruction Manual: Setup, Operation, and Maintenance</a></p> <p>Comprehensive instruction manual for the Celestron NexStar SE telescope series (Models #11068 and #11069). Learn how to assemble, power, align (SkyAlign, Auto Two-Star, Two-Star, One-Star, Solar System Align), operate, and maintain your telescope for optimal astronomical observation.</p>
 <p>CELESTRON NexStar SE Quick Setup Guide</p>	<p><a href="#">Celestron NexStar SE Quick Setup Guide</a></p> <p>A comprehensive guide to setting up and aligning your Celestron NexStar SE telescope, including instructions for the hand control and bonus Starry Night software.</p>
 <p>CELESTRON NexStar SE QUICK SET-UP GUIDE TELESCOPE BASICS</p>	<p><a href="#">Celestron NexStar SE Quick Set-Up Guide and Telescope Basics</a></p> <p>A comprehensive guide for Celestron NexStar SE telescopes, covering quick setup, assembly, hand control operation, alignment procedures, telescope basics, observing tips, and maintenance for models #11068 and #11069.</p>