Texas Instruments NSCXCAS2/TBL/2L1/A

Texas Instruments TI-Nspire CX II CAS Color Graphing Calculator User Manual

Model: TI-Nspire CX II CAS (NSCXCAS2/TBL/2L1/A)
Brand: Texas Instruments

Introduction

The Texas Instruments TI-Nspire CX II CAS is an advanced color graphing calculator designed to enhance understanding and exploration of mathematical concepts. It offers faster performance, interactive visuals, and easier-to-read graphics, expanding the capabilities of graphing calculators. This manual provides essential information for setting up, operating, and maintaining your device.
Key features include:

- Vivid color screen with 320 x 240 pixels resolution and 125 DPI, 16-bit color.
- Rechargeable battery, capable of lasting up to two weeks on a single charge.
- Handheld-Software Bundle, including the TI-Nspire CX Student Software for enhanced graphing and functionality.
- Thin and lightweight design with intuitive touchpad navigation and quick alpha keys.
- Six different graph styles and 15 colors for visual differentiation of graphs.
- Computer Algebra System (CAS) for symbolic calculations.

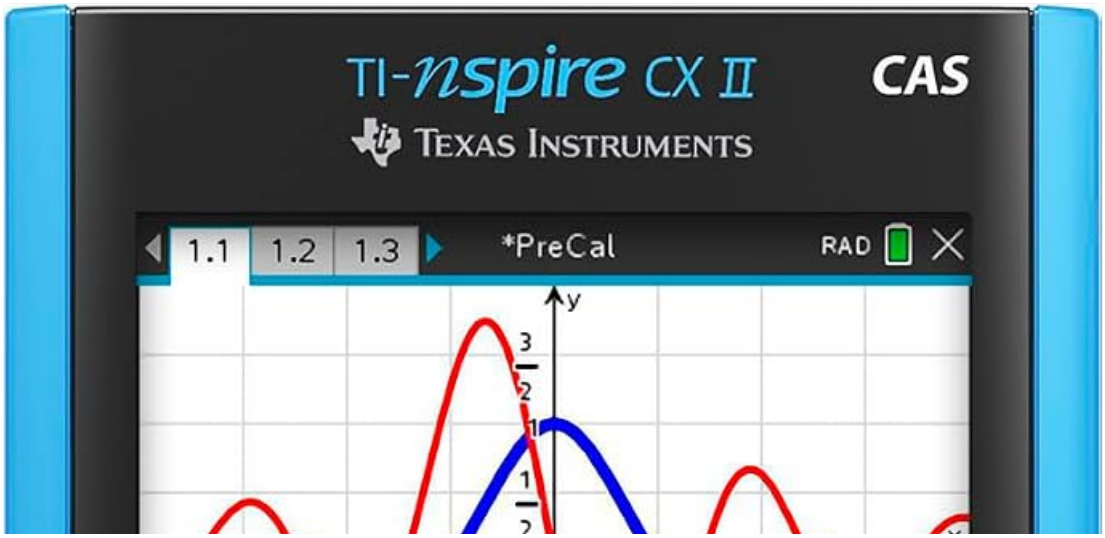




Figure 1: Front view of the TI-Nspire CX II CAS Graphing Calculator, displaying a color graph.

Setup

Initial Charging

Upon receiving your TI-Nspire CX II CAS, it is recommended to fully charge the device before first use. The calculator comes with a rechargeable battery and a USB cable for charging. Connect the USB cable to the calculator and a compatible power source (e.g., computer USB port or wall adapter).





Figure 2: Side view of the TI-Nspire CX II CAS, highlighting the USB charging port.

Software Installation

The TI-Nspire CX II CAS includes student software for PC/Mac. This software allows for enhanced functionality and seamless transfer of work between the calculator and your computer. Refer to the included documentation for detailed installation instructions.

Language Selection

When you first power on the calculator, you may be prompted to select your preferred language. Use the navigation pad to select "English (U.S.)" or another desired language, then press "OK".

Your browser does not support the video tag.

Video 1: An overview of the TI-Nspire CX II CAS Graphing Calculator, demonstrating its features and interface. This video is provided by Texas Instruments.

Operating the Calculator

Navigation and Input

The TI-Nspire CX II CAS features a central touchpad for navigation, allowing you to move a cursor on the screen similar to a computer mouse. The full QWERTY keyboard at the bottom provides easy input for variables, text, and programming commands. Numeric and function keys are located above the keyboard.

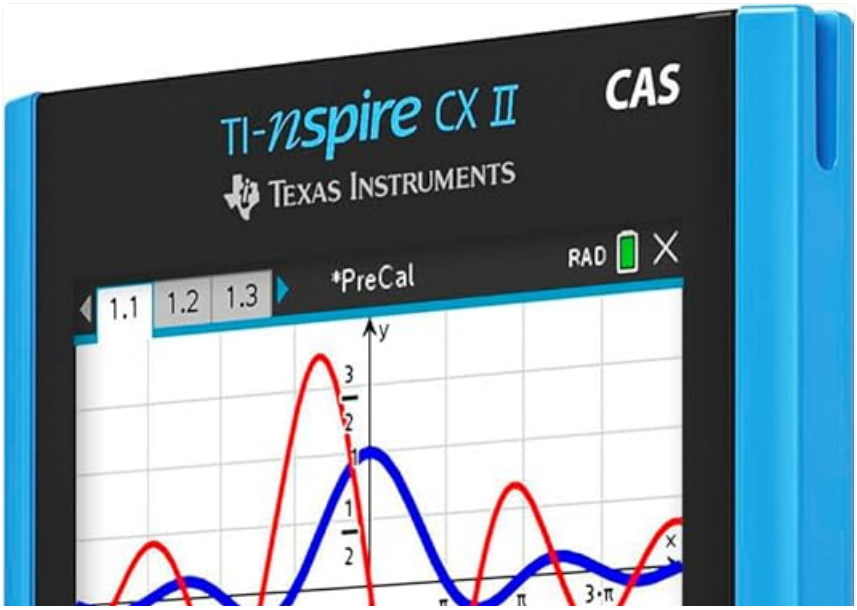




Figure 3: Angled view of the TI-Nspire CX II CAS, showcasing the full QWERTY keyboard and central touchpad.

Core Functionality

- **Calculator:** Perform basic arithmetic, complex equations, and symbolic calculations using the Computer Algebra System (CAS).
- **Graphs:** Plot functions, parametric, and polar graphs. Visualize animated path plots and explore dynamic coefficient

values.

- **Geometry:** Create and manipulate geometric objects.
- **Lists & Spreadsheet:** Organize and analyze data in tabular format.
- **Data & Statistics:** Conduct statistical analysis and plot various data representations.
- **Notes:** Create and manage notes within the calculator.
- **Programming:** Utilize Python programming for custom applications and scripts.

The calculator supports multiple representations, allowing you to see math problems expressed in different ways, including color-coded equations, symbols, and geometric objects. The MathPrint™ feature displays math symbols, formulas, and stacked fractions as they appear in textbooks.

Maintenance

Battery Care

The TI-Nspire CX II CAS is equipped with a rechargeable battery. To maximize battery life, ensure regular charging and avoid completely draining the battery frequently. If the calculator is not used for an extended period, charge it periodically to maintain battery health.

Cleaning

To clean the calculator, use a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the screen or casing. Keep the device free from dust and debris.

Troubleshooting

Common Issues

- **Calculator not turning on:** Ensure the battery is sufficiently charged. Connect the calculator to a power source using the provided USB cable and allow it to charge for at least 30 minutes before attempting to power it on again.
- **Screen is blank or unresponsive:** Try resetting the calculator by pressing the **Reset** button (if available, refer to the full user guide for location) or by holding down the **ON** button for an extended period. Ensure the battery is charged.
- **Software connectivity issues:** Ensure your computer's operating system is compatible with the TI-Nspire CX Student Software. Check USB cable connections and try a different USB port. Update the calculator's OS and software to the latest versions available from the Texas Instruments website.

For more detailed troubleshooting steps, refer to the comprehensive user guide available on the Texas Instruments education website.

Specifications

Feature	Detail
Product Dimensions	7.59 x 3.62 x 0.1 inches
Item Weight	9.1 ounces
Model Number	NSCXCAS2/TBL/2L1/A
Batteries	Rechargeable (internal)

Feature	Detail
Brand	Texas Instruments
Color	Black with Blue trim
Calculator Type	Graphing (CAS)
Power Source	Battery Powered
Screen Size	3.5 Inches
Display Resolution	320 x 240 pixels (125 DPI; 16-bit color)
Country of Origin	China

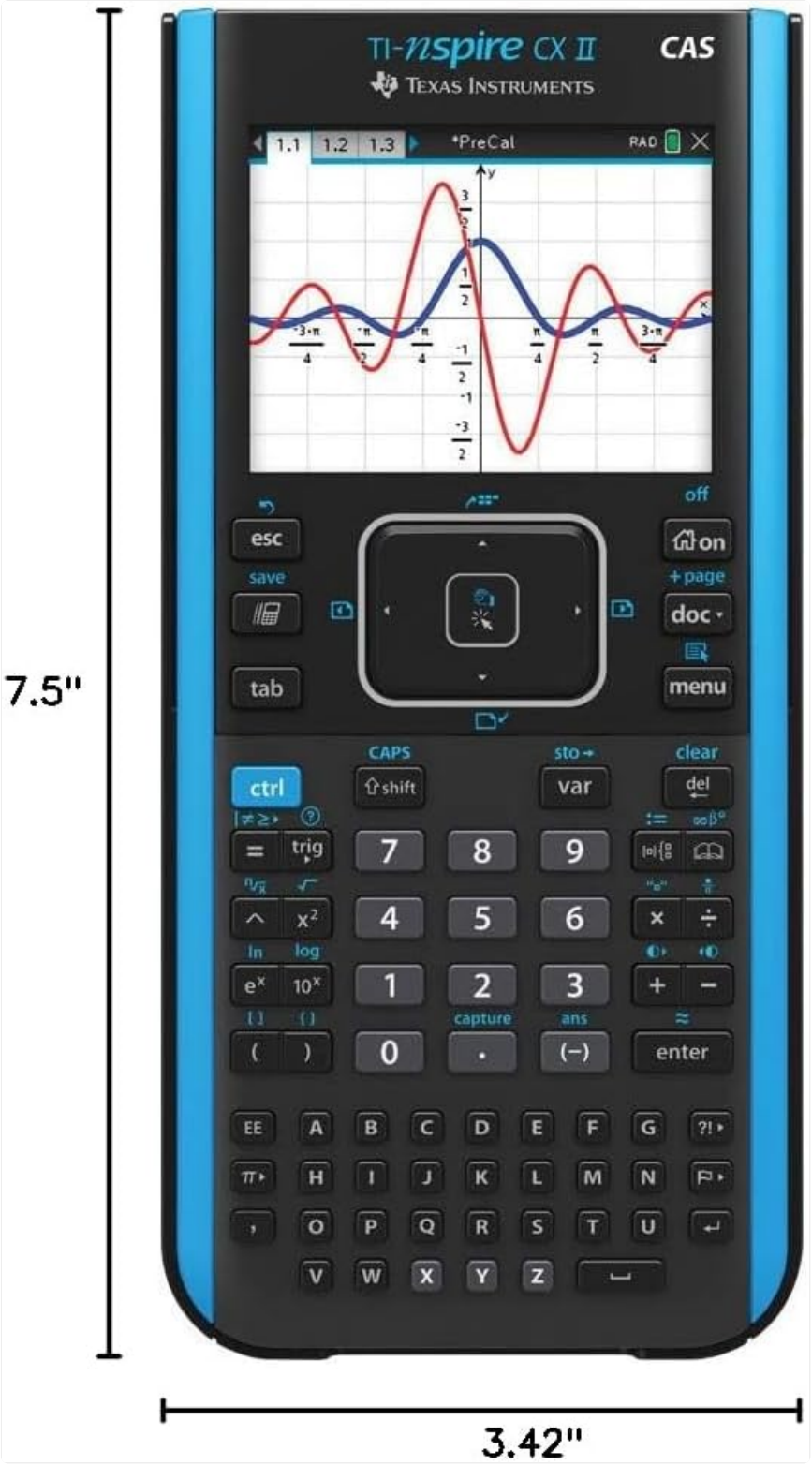


Figure 4: Dimensions of the TI-Nspire CX II CAS Graphing Calculator.

Warranty and Support

For comprehensive support, including warranty information, additional user guides, tutorials, and software updates, please visit the official Texas Instruments education website.
Official Support Link: education.ti.com/CXIICAS-info
The included student software typically comes with a license for a specified period (e.g., 4 years), providing access to enhanced features and resources.

TEXAS INSTRUMENTS

TI-Nspire™ CX II CAS

Advanced CAS graphing calculator *plus* computer software
Calculatrice graphique CAS avancée *et* logiciel informatique

PERMITTED
AUTORISÉ
AP® and IB®

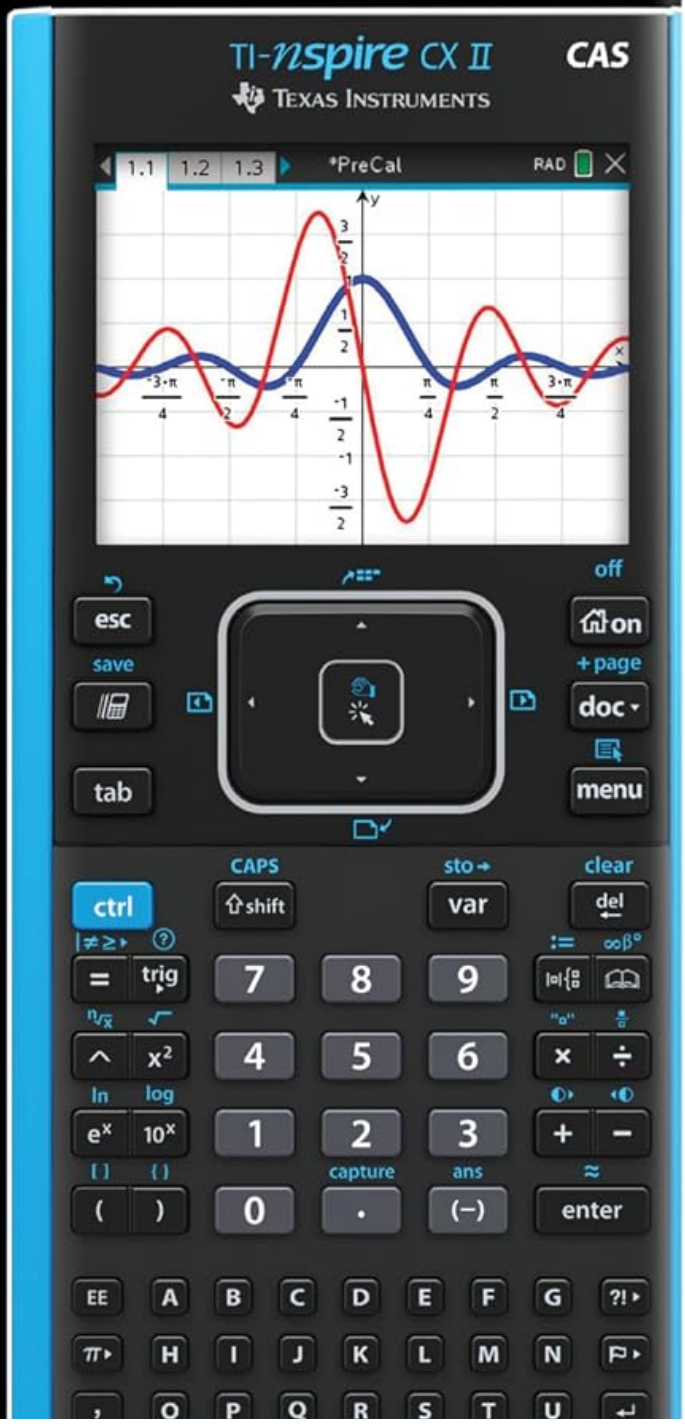
Protective cover
Étui de protection

USB included / inclus

Upgradeable / Évolutif

Rechargeable

CAS



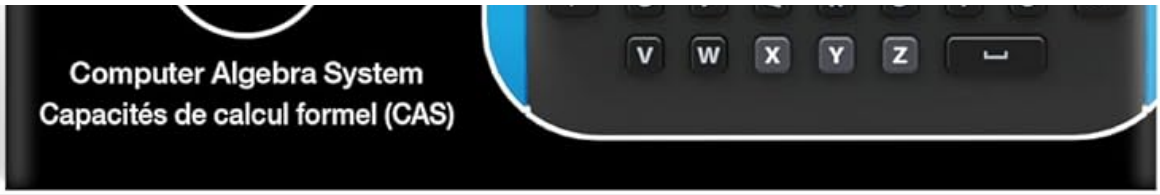


Figure 5: Front packaging of the TI-Nspire CX II CAS, detailing key features and exam permissions.

TI-Nspire™ CX II CAS

Advanced CAS graphing calculator *plus* computer software
Calculatrice graphique CAS avancée *et* logiciel informatique

Get started

Learn about the features of your new calculator, download software, exam preparation and more.

Commencez

Découvrez les fonctions de votre nouvelle calculatrice, téléchargez le logiciel, préparez vous aux examens et bien plus encore.

To learn more, scan the QR code or visit:
Pour en savoir plus, scannez le code QR ou visitez :
education.ti.com/CXIICAS-info

Compare features Comparez les fonctionnalités	TI-84 Plus CE Python	TI-Nspire™ CX II	TI-Nspire™ CX II CAS
Display resolution Resolution d'écran	320 x 240	320 x 240	320 x 240
Memory Mémoire	3.0MB	90MB	90MB
Programming languages Langages de programmation	Python, TI-Basic	Python, TI-Basic, Lua**	Python, TI-Basic, Lua**
Preloaded applications Applications préchargées	●	●	●
USB cable included Câble USB inclus	●	●	●
MathPrint™ textbook display Affichage du manuel MathPrint™	●	●	●
Color, backlit display Écran couleur, rétro-éclairé	●	●	●
Rechargeable battery Batterie rechargeable	●	●	●
Connects to STEM accessories Se connecte aux accessoires STEM	●	●	●
Software (4-year license) • Licence	●	●	●

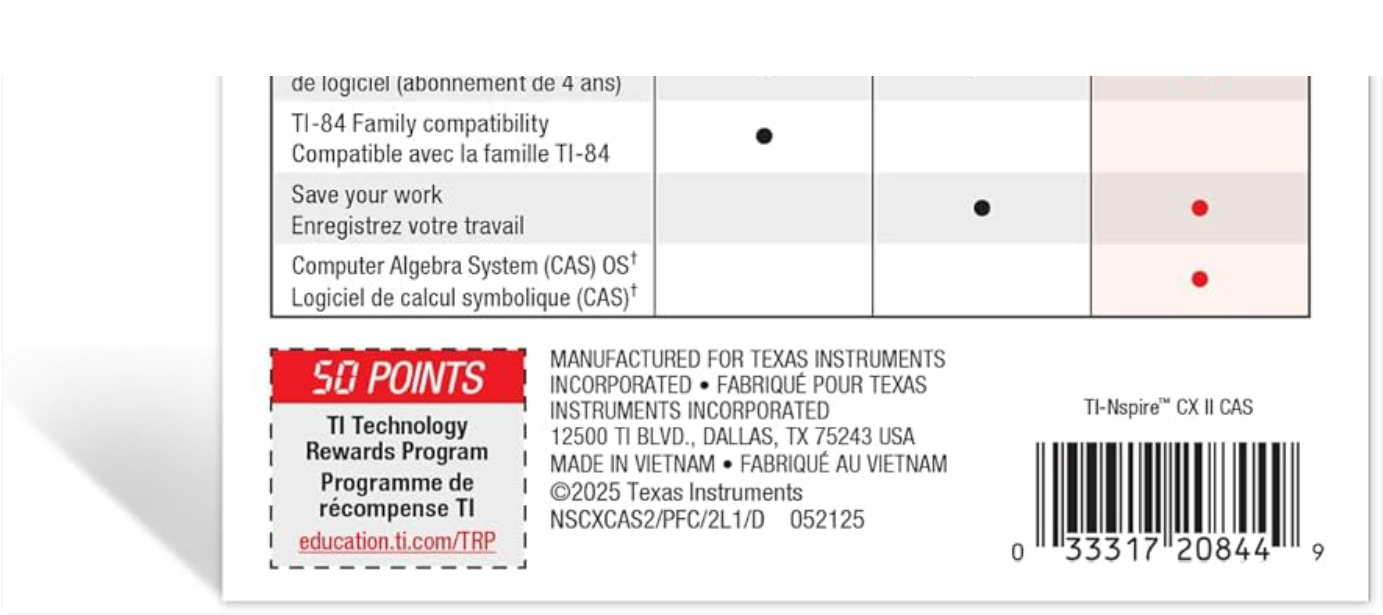


Figure 6: Back packaging of the TI-Nspire CX II CAS, including a comparison table with other models and support information.

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

Anonymous

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