



X3 BASEBALL

X3 — Baseball Operator's Manual

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Overview

The X3 provides easy control of game statistics and timing through a simple keypad interface with two information displays. This guide explains how to use each button and interpret the display screens.

Number Entry

Use the **Up** and **Down** arrow buttons to navigate through menu options. Press **Enter** to select the highlighted option, or **Back** to return to the previous screen.

To enter a number (e.g., player number):

- Use the keypad: buttons 1-9 for digits, center bottom button for 0
- The cursor shows the current digit position
- Press **Enter** to confirm
- Press **Back** to cancel

Selecting Your Sport (Dual-Sport X3)

After powering on your X3, you will be asked to choose a sport before it connects to the receiver.

1. Press **Enter** at the sport prompt.

2. Press **1** for Baseball or **2** for Softball.

Your selection only affects which sport's events the X3 can **start**; you can join any active event regardless of choice.

Connecting to Your Receiver

First, it's important to familiarize yourself with the operation of the buttons.

The text in the center of a button indicates a **short press** operation.

The text shaded at the bottom of a button indicates a **long press** (hold 3 seconds) operation.

Warning: When an event configured with multiple parent/child receivers is started via the One Controller mobile app, **no X3** can join the active event. The One Controller mobile app does not currently support adding X3 serial IDs to existing events.

1. Power on the X3: Hold the **ON/OFF** button (bottom center) for 3 seconds. You will see the "NEVCO SPORTS ONE" splash screen.

2. Battery check: The X3 checks battery levels automatically; replace batteries if a low-battery warning appears.

3. First time connection: The X3 will attempt to connect automatically:

3a. Pre-programmed receiver: If your receiver's serial is pre-set, the X3 connects automatically and displays `Connecting to:` plus the serial number.

3b. Device Discovery: If no receiver is pre-programmed, the X3 scans for nearby receivers and displays `Searching.....`.

When the scan completes, arrow-key to your receiver and press **Enter**. If your receiver isn't listed, see **Device Discovery** in the User Manual.

4. Connecting to a different receiver: From the scoring screen, press **Options**.

Select **Options** → **Main Receiver**. The **Main Receiver** menu shows **Device Discovery** (scan) and **Manual Entry** (type serial).

a. Main Receiver → **Device Discovery:** press **Enter** to search, then arrow-key to your receiver and press **Enter**.

b. Main Receiver → Manual Entry: type the serial number with the keypad and press **Enter**.

5. Select your sport profile: If multiple profiles are available, arrow-key to your selection and press **Enter**.

You are now connected and ready to control your scoreboard!

Starting an Event

After your X3 connects to its receiver, it requests the list of events available for the X3's sport.

- **Multiple events available:** Use the **Up** and **Down** arrows to highlight the event you want to control, then press **Enter**.
- **Only one event available:** The X3 starts the event automatically with no prompt.
- **No events available:** Every minute the X3 will attempt to obtain the event list from the receiver, but no event has been created on the receiver for the X3's configured sport.

If only one event is available and the event is ended from the One Controller mobile app, the X3 displays an **Event Ended** screen. This prevents the X3 from immediately re-starting the event the operator just ended.

Powering Off

When the event is over, hold the **ON/OFF** button (bottom center) for 3 seconds. Choose:

Leave the event: Your event continues; another device can connect to control the scoreboard.

End the event: The game ends; the scoreboard goes blank.

Baseball Operation Guide

Display Screens

Main Display

This is your default screen showing essential game information:

Top line: Current inning number, half-inning indicator (= top, = bottom), and Guest score

Bottom line: Pitch clock time and Home score

Active team: The half-inning (= top, Guest batting; = bottom, Home batting) sets which team receives score inputs. The active team is marked with an underscore (e.g., or).

Statistics Display

This screen appears temporarily (3 seconds) after pressing pitch count buttons:

Top line: Shows current inning number, half-inning indicator, and number of outs

Bottom line: Shows ball count and strike count

Button Functions

The X3 keypad has 12 buttons arranged in a 3x4 grid. The top buttons are configured for baseball/softball functions:

BUTTON #	LABEL	PRIMARY (SHORT PRESS)	SECONDARY (3S LONG PRESS)
1	INNING HALF	Increment inning number	Toggle top/bottom half of inning

BUTTON #	LABEL	PRIMARY (SHORT PRESS)	SECONDARY (3S LONG PRESS)
2	HIT	Record a success for the chosen team	N/A
3	PITCH	Increment pitch count for selected team	N/A
4	SCORE	Add run (point) to selected team	N/A
5	ERROR	Record error for selected team	N/A
6	AT BAT	Set/change at bat player number	N/A
7	BALL CLEAR	Increment ball count	Reset ball count to zero
8	OUT CLEAR	Increment out count	Reset out count to zero
9	STRIKE CLEAR	Increment strike count	Reset strike count to zero
10	MORE UNDO	Open the More menu	Undo the last recorded action
11	OPTIONS ON/OFF	Open the Options menu	Turn the X3 ON/OFF
12	ENTER EDIT	Select a menu/setting or submit input	Open the Edit Statistics menu

Statistics Editing

To correct a stat entered earlier in the game, press and hold **Enter** on the main display to open the editing menu.

Select the stat to change, then enter the new value with the numeric keypad. Stat edits take effect immediately on both the X3 and the scoreboard.

BUTTON #	LABEL	EDIT BEHAVIOR
1	INNING	Set the current inning number. Innings beyond the current game state are rejected.
2	HIT	Adjust the hit total for the active team.
3	PITCH	Adjust the pitch count for the active team.
4	SCORE	Adjust the run total for either team.
5	ERROR	Adjust the error total for either team.
6	AT BAT	Change the current at-bat player number.
7	BALL	Override the current ball count.
8	OUT	Override the current out count.
9	STRIKE	Override the current strike count.

Invalid Statistics Editing

If you enter an **INNING** number greater than the current inning, or select an inning greater than the current inning while editing a **SCORE**, the X3 rejects the edit as invalid. An **invalid stat** screen is displayed for about 2 seconds, then the X3 returns to the stat-selection screen so you can choose a different stat to edit.

More Menu

Press **MORE** on the main display to open the More menu.

Game Clock

Press **Enter** from the More menu to view the game clock. From this screen you can start or stop the clock.

Game Clock Edit

When the clock is stopped, press and hold **Edit** to change the game clock, use the keypad to enter the new value, then press **Enter** to submit. Press **Enter** again to start the clock.

Invalid Game Clock Edit

If you press and hold **Edit** while the clock is running, the X3 displays a warning for about 2 seconds prompting you to stop the timer first.

Game Operation Guide

Starting a Game

To start an event, follow the steps in **Connecting to Your Receiver**.

Basic Scoring

- Actions will be recorded to the proper team based on half inning.
- Record a hit: Press **HIT** button.

- Add a run: Press **SCORE** button.
- Record an error: Press **ERROR** button.

Count Management

The behaviors below are **defaults** based on automation rules in the sport profile. They can be changed via the One Controller mobile app.

For Each Pitch

- Press **BALL** or **STRIKE** to increment the respective count.
- The pitch count will automatically increment.
- Press **PITCH** if manual increment is needed.

Resetting Counts

- Hold **BALL** to reset the ball count.
- Hold **STRIKE** to reset the strike count.
- Hold **OUT** to reset the out count.
- Counts will automatically reset after walks, strikeouts, or three outs.

Inning Management

After Three Outs

- The system automatically toggles the half-inning or advances to the next inning.
- Ball, strike, and out counts are automatically reset.

Changing Innings

- Press **INNING** to increment the inning.
- Hold **INNING** to manually toggle the half-inning (top/bottom).

Automatic Functions

The X3 performs several automatic operations in accordance with baseball rules:

- Reset ball/strike counts after a hit or when maximum count is reached.
 - Change the half-inning after three outs.
 - Reset the pitch clock after each pitch.
 - Track and display hit and error indicators.
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Automatic Reconnection

If the X3 loses its connection to the receiver during an event (because the two are out of range, too close together, or subject to radio interference), the X3 automatically attempts to reconnect and displays `Reconnecting...` on the screen. No operator action is required; scoring resumes once the connection is restored.

Options Menu

The Nevco ONE handheld controller features an Options Menu for accessing device information and configuring system settings. This menu provides access to battery status, device configuration settings, and system details.

Accessing

To access the Options Menu:

- Press the **Options** button (located at the center bottom) from any screen.

Available Options

Battery

This option displays current battery level information with a visual battery indicator that illustrates the approximate remaining charge.

This screen enables you to monitor your device's battery status to prevent depletion during critical operations.

Note: The battery is also checked at startup and will display a warning when at or below 20%.

Main Receiver

This option connects the X3 to a receiver, either by scanning for nearby receivers (Device Discovery) or by entering the receiver's serial number directly (Manual Entry).

Warning: When the X3 is in an active event and either **Device Discovery** or **Manual Entry** is selected, the X3 leaves the active event. The event keeps running on the receiver and the scoreboard stays on; leaving the event only disconnects this X3.

01 Select **Options** → **Main Receiver**.

01 Choose **Main Receiver** → **Device Discovery** or **Main Receiver** → **Manual Entry** using the arrow keys and press **Enter**.

You can press the **MORE/BACK** button at any point in this process to cancel **Device Discovery** or **Manual Entry** and return to auto-connecting to the target receiver serial ID.

Device Discovery

Device Discovery scans for nearby receivers and lists up to 10 of them. The previously targeted receiver is included in the list, letting you reconnect without navigating back to the main display. The list also offers a **Device Discovery** entry to re-scan (useful when more than 10 receivers are in range or the desired receiver wasn't found) and a **Manual Entry** entry for convenience.

Note: Receivers running an event are **not** discoverable.

- 01 With **Device Discovery** highlighted, press **Enter** to start the scan. The X3 displays `Searching.....` while scanning. The scan takes approximately 40 seconds.
- 01 When the scan completes, the X3 lists the receivers it discovered along with the previously targeted receiver, **Device Discovery** (to re-scan), and **Manual Entry**.
- 01 Use the arrow keys to highlight your receiver and press **Enter** to connect.

Manual Entry

Use Manual Entry when you know the receiver's serial number and want to connect directly without scanning.

Note: Do not enter leading zeros from the receiver's serial number label. For example, if the label reads `061011`, enter `61011`.

- 01 With **Manual Entry** highlighted, press **Enter**. The X3 shows a numeric serial-entry prompt.
 - 01 Type the receiver's serial number using the keypad and press **Enter**.
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- 02 The X3 connects to the specified receiver.
- If you enter `0` as the serial number, the X3 displays an invalid-entry screen.

Other Devices

This option lets you connect a secondary X3 (such as a Pitch Timer X3) to the same receiver, so multiple controllers can share the active event.

Note: A secondary X3's serial number must be set **before** the event starts. Any change made after the event has begun will not allow the secondary device to join the active event; the event must be started by the primary X3 with the change already in place.

Warning: When an event configured with multiple parent/child receivers is started via the One Controller mobile app, **no X3** can join the active event. The One Controller mobile app does not currently support adding X3 serial IDs to existing events.

To set or change a secondary X3's serial number:

- 01 Use the **Up** and **Down** arrows to highlight the device entry you want to edit.

- 02 Press **Enter** to begin editing.

- 03 Use the keypad to type the secondary X3's serial number, then press **Enter** to save.

- 04 Press **Back** at any time to return to the Other Devices menu without making changes.

About

This screen provides crucial device information:

Serial Number: The unique serial number of your controller.

Model: The model designation of your controller.

FW Ver: The firmware version running on the controller (for example, **FW Ver: 1.0.2**).

This information is often required when contacting technical support or identifying your specific device.

Help

This screen offers contact information for Nevco technical support:

- **Support Phone Number:** 1-800-851-4040

Contact this number if you encounter unresolved issues with your device despite consulting the manual or configuration options.

RF Status

This read-only screen shows the current state of the controller's 900 MHz radio. Press **Back** to return to the Options Menu.

The screen displays two values:

TX Power: The radio's transmit power level, in dBm. The controller supports four levels (**14**, **17**, **20**, and **23 dBm**) and ships set to **14 dBm**.

Radio FW: The firmware version reported by the radio module.

Note: The transmit power level is configured from the Nevco companion app over Bluetooth. When changed, the RF Status screen updates immediately (no restart required) and the new level is retained across power cycles.

Device Firmware Update

The X3 supports firmware updates over Bluetooth using the Nevco companion application. Follow the companion app's instructions to perform an update.

Prerequisites

- A device running the Nevco companion app with Bluetooth enabled
- The X3 powered on and within Bluetooth range
- The mobile device running the companion app has internet access

Performing an Update

- 01 Open the Nevco companion app and pair with your X3 over Bluetooth. The X3 advertises itself as **nevco-<serial>** (for example, **nevco-061011**). The serial number can be found in **Options → About > Serial#** on the X3, or on a label inside the battery cover.

- 02 Start the update from the companion app. The X3 leaves any active event and displays the firmware-update screen until the transfer completes. The X3 then reboots automatically; the full transfer + reboot takes less than 5 minutes.
- 01 After the X3 reboots, the companion app reconnects over Bluetooth to verify the update. While waiting for verification, the X3 displays a confirmation-waiting screen.
- 01 If the update is successful, the companion app will alert you. Simply power on the X3 the next time you need to start or join an event.

If the update fails, the companion app will alert you. You may also see the timeout screen on the X3 after about 5 minutes; this means the companion app was unable to reconnect via Bluetooth to verify the update.

If an update attempt fails, close the companion app and retry.

Note: If the new firmware is not confirmed (because the transfer was aborted, the companion app disconnected, or verification failed), the X3 automatically rolls back to the previously installed firmware on its next boot. No manual recovery is required.

Troubleshooting

X3 will not connect to the receiver: Ensure the receiver is powered on and you are within 50–650 ft of the scoreboard.

No display on the X3: Ensure batteries have capacity. If so, remove and re-insert batteries to power cycle the unit.

Connection drops intermittently: Move closer to the receiver. Check for sources of wireless interference (other wireless devices, metal structures). Ensure batteries are not low; a low battery warning may indicate insufficient power for reliable wireless communication.

"No Events Available" displayed on screen: Using the One Controller app, create an event with the sport profile for the X3's sport.

Wrong data on scoreboard:

- Verify you are connected to the correct receiver (turn off and turn back on to see which receiver is being connected to).
- Confirm the correct sport profile is selected.
- Verify Scoreboard Model matches in the receiver's settings via One Controller.

Need Help?

If you need additional assistance, our support team is here to help.

Phone	1-800-851-4040
Online	www.nevco.com/support-ticket/
Address	Nevco Service Department 301 East Harris Avenue Greenville, IL 62246

Scan to submit a support ticket

Specifications

- Small and light weight (fits in or clips to pocket)
- Electronic Team Name and Caption Support
- Tactile confirmation of key pressed
- High visibility transreflective display
- Convenient wireless operation
- Built in wireless signal strength meter
- Power conservation circuitry

- Built in battery meter
- Long battery life
- Uses inexpensive, readily available AA batteries
- Sealed keyboard
- No slip grip
- Ergonomic single hand operation
- Internal antenna
- Mate multiple controls to same scoreboard
- Operate multiple scoreboards
- Retrofits to existing wired installations

Size: Approximately 3 1/4" x 5 1/2" x 7/8"

Weight: 5 1/2 oz. (including batteries)

Keypad: 12 keys

Display: 32 character LCD

Power Requirements: Two AA cells (included)

Operating Distance: 1000 feet (clear line of sight)

Receiver Output: One BNC connector (supports two loads with up to 1000 ft. coax each)

Operating Temperature: 0 degrees F to 150 degrees F

Certifications: FCC Part 15 Class B

CE

RoHS

Compliance

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.*

The user is cautioned that changes and modifications made to the equipment without the approval of Nevco could void the user's authority to operate this equipment.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: This device may not cause interference. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est

autorisee aux deux conditions suivantes : L'appareil ne doit pas produire de brouillage; L'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

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This product makes use of open-source software. The open-source software is provided "as is" without any warranties, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. The use of this software is subject to the terms and conditions of the respective open-source licenses.

The source code for the open-source software used in this product is available upon request. To obtain a copy of the source code, please send a written request to the following address:

Nevco, Inc.

301 East Harris Avenue

Greenville, IL 62246-2151 USA

Please include your name, address, and the specific software for which you are requesting the source code. We will respond to your request as soon as possible.