

Scoreboard Operator's Instructions

Handheld Control (HHC) - Football



Thank You

Thank You for choosing Nevco Sports LLC. We appreciate your business.

The following instructions will help you become familiar with the operation and features of the scoreboard system.

Please take a few minutes to study this manual, and to practice with the control.

If you ever have any questions or comments, please call or email us.

NEVCO GUARANTEE

To view or receive the most recent copy of the Guarantee, please visit our website, www.nevco.com or call 1-618-664-0360.

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Overview

The Handheld Controller 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.

Display Screens

Startup

When you power on your Nevco ONE handheld controller, you'll first see the "NEVCO SPORTS ONE" splash screen for approximately two seconds. The device automatically checks battery levels and displays warnings if batteries are low or critically depleted. If battery power is sufficient, the controller begins searching for nearby Nevco receivers. If the device is already configured to a ONE receiver, "Connecting to: [serial]" while establishing communication with the receiver. Once connected, you may be prompted to select from available activities to start.

Number Entry

To enter numbers, like Player number:

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

Football Operation Guide

Display Screens

Main Display

This is your default screen showing essential game information:

- Top line: Shows the game clock time with “Home” and “Gst” (Guest) labels
- Bottom line: Shows home team score, current quarter number (Q:), and guest team score
- Team selection is indicated by cursor position (highlighted team is currently selected)

Down & Distance Display

This screen appears temporarily (3 seconds) after pressing down or field position buttons:

- Top line: Shows current down number and yards to go for first down
- Bottom line: Shows ball position on the field (yard line)
- Returns to main display automatically after 3 seconds

Button Functions

Primary

The HHC keypad has 12 buttons arranged in a 3×4 grid. The top buttons are configured for football primary functions:

Label	Function
PERIOD	Increment quarter number (1-4, then overtime)
HORN	Press and hold: Sound horn/buzzer
ON	Start the game clock
POSS	Change possession to selected team
BALL	Set ball position (yard line)Hold: Set yards to go
OFF	Stop/pause the game clock
SCORE	Add points to selected team (choose: PAT-1pt, 2PT-2pts, FG-3pts, TD-6pts)Hold: Record safety (2pts)
DOWN	Increment down number (1-4)Hold: Reset to 1st and 10
TO	Use timeout for selected team

Label	Function
MORE	Access additional functions menuHold: Undo last action

Game Operation Guide

Starting a Game

- The controller initially displays the main screen showing 0-0 score and quarter 1.
- The game clock shows 12:00 (12 minutes per quarter for regulation).
- Select a team using the cursor before recording any statistics.

Basic Scoring

- Select the scoring team using the cursor position.
- Press SCORE button to add points.
- Choose the type of score:
 - **PAT:** Point After Touchdown (1 point)
 - **2PT:** Two Point Conversion (2 points)
 - **FG:** Field Goal (3 points)
 - **TD:** Touchdown (6 points)
- Press and hold SCORE to record a safety (2 points).

Clock Management

Game Clock Control

- Press ON to start the game clock.
- Press OFF to stop/pause the game clock.
- The clock counts down from the quarter time (typically 12 minutes per quarter).
- Clock automatically stops at the end of each quarter.

Play Clock

- The play clock automatically manages time between plays.
- Play clock durations:
 - **Play Clock Long:** 40 seconds (normal situations)
 - **Play Clock Short:** 25 seconds (after timeouts, penalties, etc.)
- Play clock resets automatically after each play.

Down and Distance Management

Recording Downs

- Press DOWN to increment the down number (1st, 2nd, 3rd, 4th).
- Press and hold DOWN to reset to “1st and 10” (first down situation).
- The down automatically resets to 1st when a team gains a first down.

Field Position

- Press BALL to set the ball position (yard line where play starts).
- Press and hold BALL to set yards needed for first down.
- Ball position ranges from 1 to 50 yard line.

Possession Management

Changing Possession

- Press POSS to change possession to the currently selected team.
- This updates which team has control of the ball.
- Possession automatically changes on turnovers, punts, and scores.

Timeout Management

Using Timeouts

- Select the team calling the timeout using the cursor.
- Press TO to use a timeout for the selected team.
- Teams receive 3 timeouts per half.
- No additional timeouts are given in overtime.
- The timeout clock will count down 60 seconds during the timeout.

Quarter Management

Advancing Quarters

- Press PERIOD to advance to the next quarter.
- Regulation game has 4 quarters.
- After 4 quarters, overtime periods can be added as needed.
- Timeouts are distributed per half (quarters 1-2, quarters 3-4).

Automatic Functions

The Handheld Controller performs several automatic operations in accordance with football rules:

- Start play clock when appropriate game situations occur.
- Reset play clock after completed plays and first downs.
- Track timeout usage and remaining timeouts per team.
- Sound horn when quarter expires.
- Automatically manage down progression (1st through 4th down).
- Reset to 1st down when team achieves first down yardage.
- Track field position and yards to go for first down.

Advanced Situations

Overtime Rules

- Overtime periods use 5-minute quarters.
- Each team typically gets equal possessions in overtime.
- Sudden death rules may apply depending on league regulations.

Special Scoring

- **Safety:** Press and hold SCORE when the defense scores a safety.
- **Touchback:** Ball automatically placed at appropriate yard line.
- **Field Goals:** 3 points, typically attempted on 4th down.

Error Correction

Undo Function

- Press and hold MORE button to undo the last recorded action.
- This will reverse the most recent statistic entry.
- Use immediately after making an error for best results.

Manual Corrections

- Use BALL button to manually adjust field position if needed.
- Use DOWN button to manually correct down number.
- Possession can be manually corrected using POSS button.

Game Flow Management

Between Plays

- Game clock stops for incomplete passes, out of bounds plays, and timeouts.
- Play clock starts automatically for the next play.
- Officials can manually stop and start clocks as needed.

End of Quarter

- Game clock automatically stops at 00:00.
- Horn sounds to indicate end of quarter.
- Teams switch sides between quarters (except at halftime).

Two-Minute Warning

- Special clock management rules may apply in final two minutes.
- Timeouts become more valuable for clock management.
- Game clock stops after first downs in final two minutes.

Options Menu

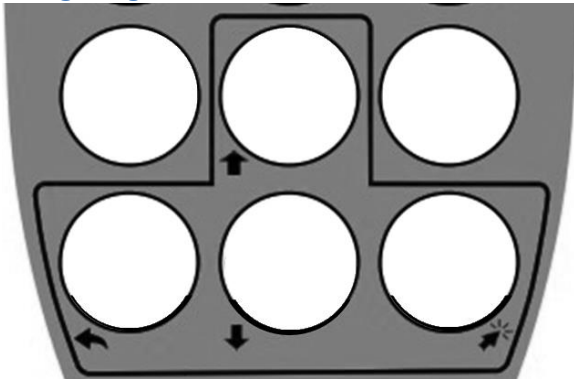
The NEVCO ONE handheld controller features an Options Menu for accessing device information and configuring system settings. This menu provides access to battery status, device configuration settings, and system details.

Accessing

To access the Options Menu:

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

Navigating



Keypad Navigation

Utilize the Up and Down buttons to navigate through different options.

- Press Enter to select the highlighted option.
- Press Back to return to the previous screen.

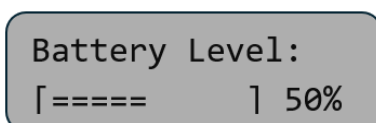
Available Options

The Options Menu includes the following selections:

Battery

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

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



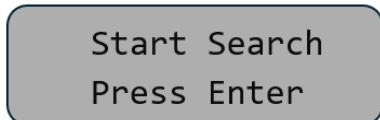
Battery Level

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

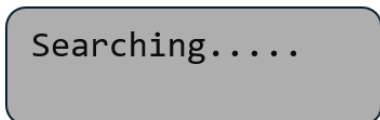
Configure

This option allows setup and connection to a receiver:

- Select this option to initiate a search for available receivers.
- The screen will display "Start Search" and "Press Enter".

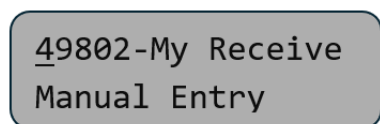


- Upon confirmation, the system will search for nearby NEVCO ONE receivers.



When receivers are detected, you can:

- Choose from a list of discovered receivers (displayed by serial number and name).
- Choose "Manual Entry" to manually input a receiver's serial number.



This functionality is essential for:

- Initial controller setup.
- Connecting to a different receiver.
- Troubleshooting connection issues.

About

This screen provides crucial device information:

- Serial Number: The unique serial number of your controller.
- Model: The model designation of your controller.

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: 1-888-212-8185.

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

Specifications

• Small and light weight (fits in or clips to pocket) • Electronic Team Name and Caption Support • Tactile confirmation of key pressed • High visibility transfective 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 3¼" x 5½" x 7/8" Weight: 5½ 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°F to 150°F Certifications: FCC Part 15 Class B CE RoHS
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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 autorisée aux deux conditions suivantes : L'appareil ne doit pas produire de brouillage; L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Open-Source Software

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.