

DOUBLE-ALPHA EDGE SHOT TIMER

User Manual



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INTRODUCTION

GENERAL

The DAA EDGE Shot Timer is a modern, professional-grade shot timer designed for shooters of all levels. It is equally suited for individual practice, structured training sessions, club use, and full match Range Officer operation.

Developed through extensive real-world range testing, the EDGE focuses on three core principles: accuracy, ease of use, and reliability. Advanced functions such as Wireless BT connectivity, target activation control, chronograph integration, and detailed string review are included, while everyday operation remains fast and intuitive.

A rugged, water- and dust-resistant housing, Gorilla® Glass screen protection, and long-lasting replaceable batteries ensure dependable performance in demanding range environments. Wireless BT connectivity enables seamless operation with DAA Target Activation Pods, scoring applications, and the DAA ARC Chronograph, while optional smartphone connectivity allows live string review and video overlay.

FEATURES

- Rugged, water- and dust-resistant housing
- Gorilla® Glass screen protection
- Large, high-resolution display with backlight
- Dual-display layout for shot timing and status information
- Built-in flashlight for visual starts and target inspection
- User-configurable START / MUTE button layout
- Long-range Wireless BT connectivity for:
 - Scoring applications
 - Velocity review with the DAA ARC Chronograph
 - Control of DAA Target Activation Pods
 - Smartphone string review and video overlay
- Walk-Through countdown timer for match RO use
- Fully configurable start delay options
- Adjustable buzzer volume and tone
- Advanced shot detection with echo filtering
- MUTE function for controlled microphone behavior
- Detailed string storage with individual shot times and splits
- Powered by long-lasting, replaceable CR123A batteries

Battery Information

Battery life depends on several factors, including buzzer volume, backlight and flashlight usage, Wireless BT activity, temperature, and overall operating time.

To avoid running out of power during critical use, we recommend replacing the batteries before each major event. One of the advantages of replaceable batteries is the ability to swap them quickly and continue operation immediately, without waiting for recharging.

We recommend always carrying a spare pair of batteries. The dedicated EVA case includes a storage compartment designed specifically for this purpose.

To reduce operating costs, USB-C rechargeable **CR123A** batteries can be used. These are widely available from various online retailers.

PART A — QUICK START GUIDE

Quick Start

1. Insert 2 × CR123A batteries into the battery compartment (see diagram below).
2. Press and hold the **CENTER** button for 2 seconds to power on.
The Run Screen appears after the splash screen.
3. Press **SETTINGS** to adjust Start delay and the mic sensitivity if needed.
4. Press **START** to return to Run screen and **START** again to begin the countdown.
5. After the start signal, shoot.
6. Press **REVIEW** to view the recorded shots and splits.

Continue reading for a detailed explanation of all features and settings.



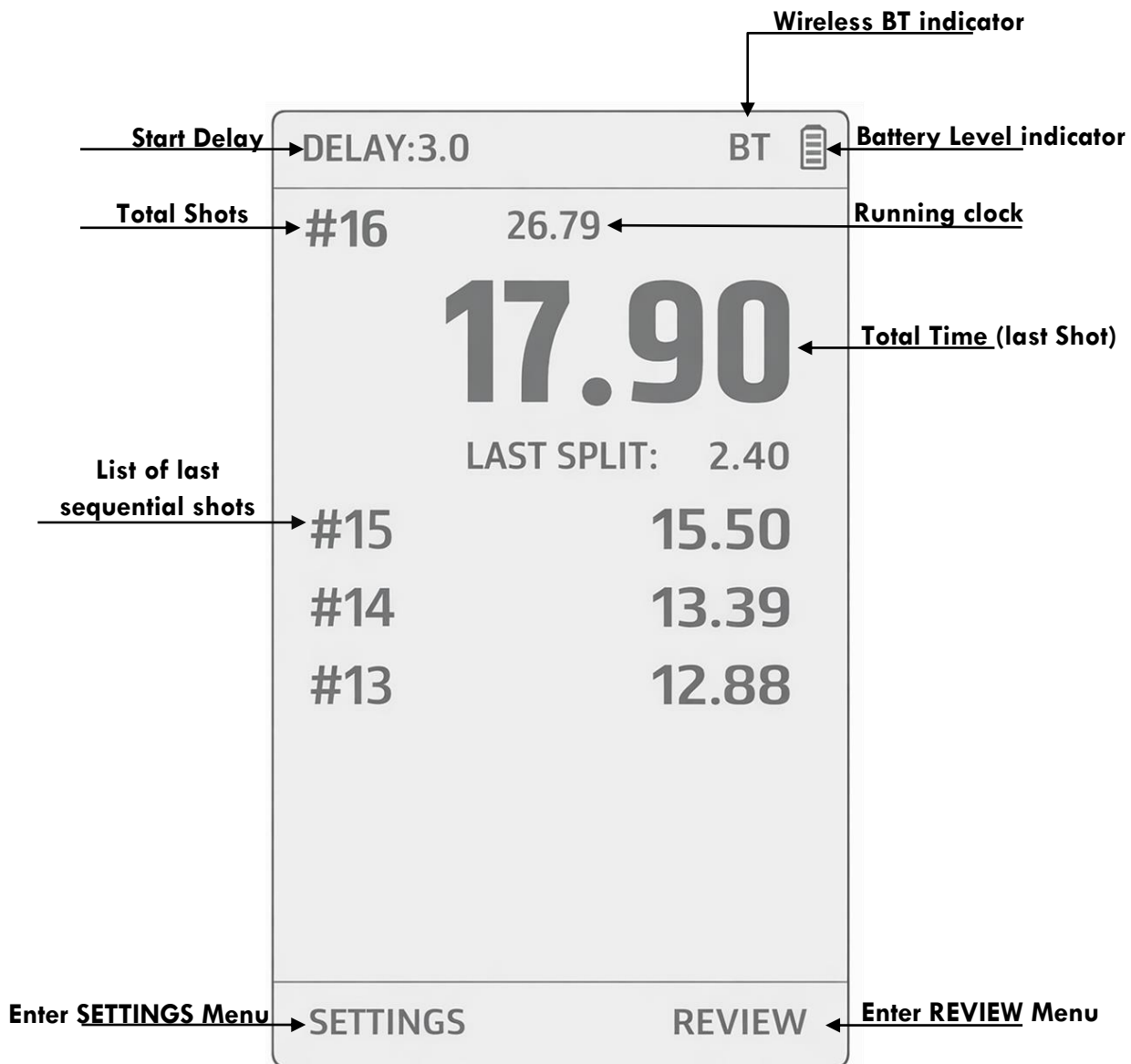
BUTTON OVERVIEW



Note: The Top two buttons can be switched sides from within the settings.

- **Top Right: START (Default)**
- **Top Left: MUTE**, disables shot detection (microphone input)
- **Front Left button (gear icon):** Opens the **Settings** menu and functions as a **Back** button within menus
- **Front Top Middle button (light-bulb icon):**
 - Short press: activates display backlight
 - Long press: activates the rear flashlight, while pressed
- **Front Top Right button (list icon):** Opens **String and Split Review**
- **Center button:** Power ON / OFF (2 Sec) and Confirm
- **Directional pad (Up / Down / Left / Right):** Menu navigation and value adjustment

RUN SCREEN DISPLAY



STARTING A RUN

- From the Run Screen, Press **START**. From any other screen press **START** twice
- The countdown begins based on the selected **Start Delay**
- Start signal Sounds, (buzzer, flashlight, or both) - shots recorded
- During a Run, a new Run can be started immediately by pressing **START** again

DURING THE COUNTDOWN:

- Press **START** to restart the countdown
- Press **MUTE** to cancel the countdown without a start signal

STOPPING A RUN

- Allow the Run to continue, or press **MUTE** to disable shot detection (microphone input). Entering the Setting's menu will stop the clock completely.
- The internal timer continues running in the background until 999.99 sec (16.6min), or until **START** is pressed to begin a new run

MUTE BUTTON BEHAVIOR

- Press **MUTE** to prevent shot detection. The MUTE buttons starts flashing red, and the Mic Icon at the top of the Run screen changes to muted.
- Commonly used at the end of a stage to prevent unwanted shot pickup during unloading
- Press **MUTE again** to re-enable shot detection

VIEWING STRINGS, SHOTS AND SPLIT TIMES

During the run, the following shot information is displayed:

- Number of shots
- **Last shot time** shown prominently
- **Previous three shots** listed in sequence
- **Split time** between the last two shots shown
- **Lower display** shows **PAR** and **POD** set times, if applicable

Press **REVIEW** for full String Review mode.

REVIEWING FULL STRING DATA

The **REVIEW** function allows you to inspect the recorded shot data for the current and past strings. It stores up to 100 strings, and up to 250 shots per string. Use the arrows to navigate through the matrix. Press **Review** again to Exit. (or the **START** button to return to the Run screen)

What Review Mode shows

When Review Mode is entered the display presents the following information simultaneously:

- **String number:** Indicates which recorded string is currently being viewed. #1 being the current/latest.
- **Shot list:** A sequential list of recorded shots. Scroll down to see up to 250 shots.
- **Split times:** between all shots
- **Total String/Last shot time:** The total elapsed time of the last detected shot in the string, shown prominently at the top.

For each shot, the following data is displayed:

- **Shot number**
- **Shot time** (time from the start signal)
- **Split time** (time between this shot and the previous shot)

Note: If available, the right-most column displays the next recorded string and its split times, use the Right/Left arrow buttons to navigate through the strings. Up to 100 strings can be saved.

NAVIGATION IN REVIEW MODE

- Use **UP** / **DOWN** to scroll through shots
- Use **LEFT** / **RIGHT** to navigate between strings (if available)
- Press **REVIEW** again to exit Review Mode and return to the Run Screen
- Press **SETTINGS** to delete all strings (confirmation required)

PART C – SYSTEM TOOLS AND SETTINGS

The following section describes each feature in the Settings menu, presented in the order they appear.

1. TIMER PRESETS

Allows you to store up to **five presets** containing commonly used settings. Presets are ideal when switching between different ranges or training styles.

Each preset stores all the settings visible above the bold horizontal line:

- Microphone sensitivity and echo filtering settings
- Start delay configuration
- Buzzer tone and volume

How to use it

Enter **SETTINGS**. The active preset number is shown in the upper-right corner.
Use **LEFT / RIGHT** to toggle between the five presets.

Any changes made to the settings above the bold horizontal line (microphone, delay, buzzer) are automatically saved to the selected preset.

Example:

- Preset 1: Dry fire
- Preset 2: Indoor range
- Preset 3: Outdoor range

2. MIC SENSITIVITY

Controls how sensitive the Microphone is to the shot sounds, ensuring accurate shot detection in different environments.

How to use it

Go to **SETTINGS** → **MIC SENSITIVITY** and select a level from **MIN to MAX (16 levels)**

- MIN = least sensitive
- MAX = most sensitive
- The default setting is L9, however you should experiment based on your range environment, caliber being shot and the distance from which you wish to pick up the shots.

Note: At very high sensitivity levels, fast button presses or contact with the housing may register as shots.

3. ECHO WINDOW

Sets a minimum time window after a shot during which no new shot can be detected.

On echo-prone indoor ranges, echoes often occur 0.05–0.08 seconds after the shot. Setting the Echo Timer to **0.10 seconds** prevents false detections.

If you regularly shoot very fast splits below 0.10 seconds, reduce this value accordingly.

4. ECHO FILTER

An advanced frequency filter that helps suppress problematic echoes on difficult indoor ranges. The default value of **500 Hz** works well for most environments. Adjust only if needed.

5. START DELAY SETTINGS

Defines the time between pressing **START** and the start signal.

You can use:

- Instant start
- Fixed delay
- Random delay within a defined range

How to use it

Go to **SETTINGS** → **START DELAY**.

Use **LEFT** / **RIGHT** to adjust the delay in 0.1-second increments from 0.0 to 99.9 seconds.

Set the delay to **0.0** for an instant start.

To add randomness, adjust **RANDOM FROM**.

Example:

To get a random start between 2.0 and 4.0 seconds:

- Set **START DELAY** to 2.0
- Set **RANDOM FROM** to 2.0–4.0

6. START SIGNAL: BUZZER AND FLASHLIGHT

Controls how the start signal is given—audible, visual, or both.

How to use it

Go to **SETTINGS** → **BUZZER VOLUME** to adjust volume or mute the buzzer entirely.

Go to **BUZZER TONE** to select a low medium to high tone.

To enable **FLASHLIGHT START**, toggle the option ON.

This is especially useful for hearing-impaired shooters or silent environments.

7. DISPLAY BACKLIGHT

Controls the screen backlight. Set to ON for indoor use, and OFF for outdoors, to conserve power.

How to use it

Toggle **LEFT** / **RIGHT** to turn the backlight ON or OFF.

8. PAR SETTINGS

PAR mode allows you to program **up to five timed beep signals** from a single start signal.

PAR is commonly used for **dry fire and structured training**, where specific actions must be completed before each beep (for example: draw, reload, transition, or shot execution).

- The timer gives **one start beep (0.5sec in duration)**

- Additional PAR beeps follow at the programmed times
- Each PAR time is **relative to the previous PAR**, not the start signal
- Up to **five PAR beeps** can be active in one run
- The **PAR beeps** duration is 0.3 sec, and timer can pickup the shots during the PAR beeps, in most sensitivity levels.

The EDGE Timer continues recording shots throughout the run, allowing you to review timing and splits against each PAR beep.

How to use it

1. Go to **SETTINGS** → **PARS**
2. Set **PAR 1** (time from the start beep)
3. Set **PAR 2–PAR 5**, each relative to the previous PAR
4. Up to five PARs can be enabled at the same time

The **Run Screen** displays how many PARs are currently active.

To remove PAR beeps:

- Use **CLEAR ALL** to reset all PARs at once, or
- Or manually set PAR values back to **0.00**, starting from the last PAR and working backward

9. POD SETTINGS (TARGET ACTIVATION PODS)

Allows pairing and control of up to **five DAA Target Activation Pods**, with individual activation delays.

How to use it

Go to **SETTINGS** → **PODS**.

1. Power on the pod
2. Select **SEARCH** to find available pods
3. Pair pods one-at-a-time to avoid confusion
4. Use **LEFT / RIGHT** to set each pod's activation delay

On the Run Screen:

- **The POD settings** are showing in a dedicated area in the lower right corner
- **Black square:** Pod primed and waiting to activate
- **White square:** Pod activated (target has been triggered), not primed

To remove PODS previously paired, set them to “Unpaired”, and power them off. Then do a new Search to remove them from the list.

The effective range to the pods is roughly 60-80 meters. Depending on range conditions.

10. ARC CHRONO

Allows direct connection to the **DAA ARC Chronograph**, enabling velocity readings to be captured and reviewed directly on the EDGE timer.

How to use it

1. Enter **ARC CHRONO** on the EDGE timer.
2. Power on the ARC Chronograph to establish the connection.
Note: The ARC Chronograph supports only one active connection at a time. Ensure it is not already connected to a smartphone.
3. Optional: enter the bullet weight to enable calculation of **power factor** and **muzzle energy**.
4. Confirm the LEDs on the ARC Chronograph illuminate **green**, then shoot through the chronograph – shot will appear on the EDGE timer.

11. ROUNDS PER MINUTE

Calculates and displays the **Rounds Per Minute (RPM)** based on detected shots.

How to use it

Enter **RATE OF FIRE** and begin firing. No need to press the **START**.
The EDGE automatically calculates **RPM**.

Use **REVIEW** to inspect the shot string. Note that the first shot always appears to be 0.00, as that is the starting point of the string. The RPM is calculated based on the total time (first to last shot) divided by the number of shots recorded.

To start a new RPM test, press the **START** button once.

12. WALK-THROUGH TIMER (RO FEATURE)

Provides a useful walk-through countdown timer for Range Office's.

A warning signal sounds with one minute remaining, followed by a clear end-of-time signal.

How to use it

Setting the time: Default time is **3 minutes**. Adjust with **LEFT / RIGHT** in increments of 10 sec.

To activate: from the **Run Screen**, press and hold **LEFT + RIGHT** buttons for 1 sec to start the walk-through countdown.

Press **START** to stop or exit.

13. CONNECTING THE EDGE TIMER IN PRACTIScore 2

Important:

To connect a shot timer in PractiScore 2, you must be inside Enter Scores for a stage that has shooters assigned.

The timer connection option is not available outside this screen.

How to connect

1. Go to **SETTINGS** → **DEVICE SETTINGS** → **BT WIRELESS** and set Wireless BT to **ON**.
2. Open PractiScore 2, select your match or practice session, then tap **Enter Scores** and select the relevant stage.
3. In the **stage** screen, tap the **three dots (...)** in the top-right corner and select **Timer**.
4. **Select the EDGE Timer**
From the list of available Wireless BT timers, select the EDGE timer.
The timer will appear as **EDGE XXXXXX**.

Using the EDGE Timer with PractiScore

- After each run, the total stage time is available in PractiScore.
- The time must be accepted/imported into the active shooter's score.
- Hits and penalties are entered manually in PractiScore.
- Shot strings and split times remain stored on the EDGE timer and are not transferred to PractiScore.
- To import the time, select the shooter in the stage. Once the stage is completed, tap the Timer icon in the lower-right corner to import the recorded time.



Troubleshooting tips

- Make sure the EDGE timer is **not connected to another device**
- Turn Wireless BT OFF and ON again if the device does not appear
- Keep the timer within a few meters of the mobile device
- Restart PractiScore if connection issues persist

14. DEVICE SETTINGS

BT Wireless

Enable or disable Wireless BT to save power when not using wireless features. By default, the BT Wireless is ON for 5min when the device is powered up. If no BT devices are connected – the feature is turned off to conserve power.

TOP BUTTONS

Swaps the left/right position of **START** and **MUTE** to suit your preferred grip. LED colors automatically adjust to match the selected layout.

TOP BRIGHT

Adjusts illumination level of the top buttons using **LEFT / RIGHT**.

AUTO POWER OFF

Automatically powers the timer off after a user-defined period of inactivity (no shots, no button presses) to conserve battery life. The default setting is 15min

Use **LEFT / RIGHT** to select the desired delay. The setting is saved automatically.

CLEAR STRINGS

Clears all shot strings store on the device.

FACTORY RESET

Restores all user-modified settings to their original factory defaults. Enter Factory Reset, then select **CLEAR** to confirm.

DEVICE TEST

Allows testing of the microphone, buzzer, and buttons.

Microphone Test

Includes a calibration aid to help determine the optimal microphone sensitivity for your environment. Generate shot sounds and the timer will indicate the recommended sensitivity range.

Buzzer Test

Allows testing of different buzzer volume and tone settings to ensure clear audibility.

Button Test

Allows verification of all individual buttons to confirm proper operation.

FIRMWARE VERSION

Displays the currently installed firmware version on the EDGE timer.

Firmware updates are performed through the **DAA EDGE** App, available on both the **Apple App Store** and **Google Play Store**.

FCC CAUTION :

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.