

Double-Alpha EDGE TIMER

User Manual



General

The DAA EDGE Timer is a result of years of development work and range use analysis. We have endeavored to offer the best shot timer on the market, for both private training, club group sessions and RO use at matches. The Bar was set high, and great effort was made to ensure all requirements were met, which still stringing to keep the usage simple and intuitive for all users.

Packed full of useful, advanced features, the DAA EDGE Timer is built to offer you years of reliable service. It tough housing, dust and water proof protection, Gorilla glass screen protection all ensure endurance and long lasting reliability.

Cutting edge long range BT communications allow you to use the EDGE timer with the DAA Target Activation Pods, various scoring apps and even the DAA ARC Chrono. Software updated are possible too, using the dedicated app.

Features

- Rugged water and dust proof housing.
- Gorilla® glass screen protection
- Dual displays with backlight
- Built in flash light, for optical Starts or target inspection
- User configurable START/MUTE button position
- Long range BT communication allows for:
 - Use with Scoring applications
 - Activation and review of velocities using the DAA ARC Chrono
 - Triggering of the DAA Target Activation Pods
 - Connection to your smartphone for live string review and video overlay
- Walkthrough countdown timer, user configurable
- Fully configurable START delay Options
- User controlled Buzzer frequency and volume settings
- Advanced Shot Detection Algorithm and filtering
- MUTE feature allows microphone to be controlled at end of stage
- Advance String storage and review, shows both individual shot times AND splits
- Large high-resolution front display
- Powered by long lasting and replaceable CR123A batteries

Power ON/OFF

What it does

Turns the timer ON/OFF

How to use it

Hold Down the central button for 2sec to power on the unit. The flash screen will be displayed, showing you the battery status, and then the timer will settle into the RUN screen. All previously used settings will be maintained. Hold the center button for 2sec to power off

Auto Power OFF

What it does

Automatically turns the timer off after a user-controlled delay, if not shots or button presses are detected.

How to use it

In SETTINGS scroll down to DEVICE SETTINGS, then find the option for AUTO POWER OFF. Use the LEFT/RIGHT arrows to adjust the delay. Once changed it is automatically saved.

Timer Presets

What it does

Allows you to store up to 5 presets of many of the timer's main settings, to match particular ranges you frequent. This allows you to store a preset for the Microphone's sensitivity and echo filter, the start delay and the buzzer tone and volume.

How to use it

Click on the settings button to enter the setting menu, the current preset will be selected in the upper right corner. Use the left/right arrow to scroll between the 5 presets. Any changes you make to the settings above the separation line mid screen (microphone, start delay and buzzer settings) will be stored in that preset for future use.

For example, you can use one preset for your preferred Dry Fire training, one setting for optimized performance at your Indoor range, and another for outdoor use.

Microphone settings

What it does

Allows you to select from 12 levels of microphone sensitivity and Echo filter, to achieve the optimal shot-detection performance on any given shooting range.

How to use it

In SETTINGS, scroll down to the first option - **MIC SENSITIVITY**, and select a level 1-12. 1 being the least sensitive and 12 the most sensitive. Select the level that allows you to detect the shots fired from the firearm type in use, from the distance you desire.

Levels 2-4 will be suitable in most indoor ranges with large caliber pistols or rifles. Levels 5-7 suitable for outdoor large calibers. Higher sensitivity may be used if you wish to pickup shots from longer distances, and maximum sensitivity can be used for dry fire or airsoft.

Be aware, however, that when set to the highest level, the microphone is so sensitive that some button clicks or contact with the timer housing may trigger a shot detection.

ECHO TIMER is a microphone setting that prevents any echos from being recorded as a shot, by setting a length of time after a shot in which no other shot can be detected. On echo prone indoor ranges, that echo usually has a 0.05-0.08 delay, so setting the ECHO TIMER to 0.10 will ensure none of these echos are ever mistaken for shots. If you expect to shoot faster than 0.10 splits, you can shorten this window.

ECHO FILTER is an advanced setting which adds a high-tech frequency filter into the shot detection algorithm, which helps to eliminate echo's on ranges with bad acoustics. The default setting is 2000Hz and that should be suitable for most ranges. Change it only if you are struggling to cancel out unwanted echo's problematic ranges.

Start Delay Settings

What it does

Allows you to determine the delay from the moment you press the START button, until the BEEP is activated. You create an Instant start, a fixed delay or Random delay within a defined range.

How to use it

You can set the START DELAY by scrolling to it in the setting menu, and then using the left/right buttons to adjust the delay. Holding down the button will make the delay scroll faster. You can set your Start Delay in increments of 0.1sec, from zero to 99.9sec. Set it to Zero for an Instant start.

Scroll down once more to the next setting RANDOM FROM to add an additional random delay to your Start delay.

So for example, if you would like the start delay to be a random time between 2.0-4.0 seconds, you need to set the Start delay to 2.0sec and then the RANDOM FROM to 2.0-4.0sec.

During the countdown, the main screen shows the countdown towards the START signal. Pressing the Green Start button again during the countdown will restart it. Pressing the RED MUTE button during the count down will stop it, and prevent the timer from beeping.

Start Signal Settings: Buzzer and Flashlight Start

What it does

Allows you to control the sound of the START and PAR beeps, for frequency and volume, as well as incorporate a Visual start using the incorporated flashlight feature.

How to use it

Go into the **Settings** menu and navigate down to **BUZZER VOLUME**. Here you can set the buzzer volume to your liking by toggling between the available presets using the **LEFT** and **RIGHT** buttons. From this menu you can also mute the buzzer entirely.

In the same way, the **BUZZER TONE** can be adjusted from low to high to suit your preference.

If you wish to use the **FLASHLIGHT START**—for example for hearing-impaired shooters—you can enable it from this menu by navigating to the option and toggling **LEFT** or **RIGHT**.

Display Backlight settings

What it does

Allows you to activate or deactivate the display backlight for improved visibility in low-light conditions, or to conserve battery life when backlighting is not needed.

How to use it

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

PARS Settings

What it does

Allows you to configure the PAR delay of up to 5 PAR beeps, to run in sequence off one Start Signal.

How to use it

In Settings, scroll down just out of the Present window to the PARS setting, select it.

Par1: scroll left and right to set the delay to PAR1. Press Green Start button to return to run screen with the par set

In this manner you can set up to 5 pars, for each setting the delay from the previous one.

On the RUN screen, in the lower left corner you will see how many PAR's are set.

To Clear ALL PARS you can scroll down in the PAR menu to the CLEAR ALL and confirm. Or you can manually adjust them back to Zero in the order they were added (you must zero PAR 2 before you can zero PAR1)

POD settings

What it does

Allows you to pair with up to **five DAA Target Activation Pods**, enabling a wide range of creative and dynamic stage designs. Within this menu, you can configure individual activation delays for each pod, based on the start signal.

How to use it

Enter the **SETTINGS** menu and navigate down to **PODS**, then enter the menu. By default, this list will be empty.

Make sure the Target Activation Pod you wish to connect is powered on. When connecting multiple pods, it is recommended to add them **one at a time** to avoid confusion about which pod is which. Select **SEARCH** in the top right corner of the screen to scan for available pods. Once a pod is found, select it to pair with the timer. Repeat this process for each additional pod you wish to add. After pairing, highlight a connected pod and use the **LEFT** and **RIGHT** buttons to set its individual activation delay relative to the start signal. Once setup is complete, the connected pods will be shown as active on the **Run Screen**. When the activation pod is primed, the square indicator above the pod icon will appear **black**. After the pod has activated, this indicator will change to **white**, providing a clear visual confirmation. When you are finished using the pods and no longer wish to include them in your stage, return to the **PODS** menu and set the pod(s) to **OFF**. This removes them from the main screen and prevents the timer from accounting for them during operation.

DAA ARC Chronograph Feature

What it does

Connect to the DAA ARC Chronograph allowing you to take readings from the chronograph instead of on your smartphone.

How to use it

Enter the ARC CHRONO menu and turn on the chronograph you wish to connect to.

Rate Of Fire Feature

What it does

Allows you to **measure the rate of fire** of any weapon that can be detected by the microphone. The timer measures the time interval between each shot and averages it over the **total number of shots fired**, calculating and displaying the **rate of fire in rounds per minute (RPM)**.

How to use it

Enter the menu and start firing, it's as simple as that. The timer will automatically calculate the rate of fire as shots are detected. You can review the recorded string of shots using the **REVIEW** button. Clearing the string will reset the RPM calculation. Alternatively, you can exit and re-enter the **RATE OF FIRE** menu to reset the measurement and start over.

Walk-Through Timer Feature

What it does

Allows Range Officers to set a dedicated **Walk-Through** time prior to the start of a stage during a match. When one minute remains, the timer provides a series of warning beeps. Once the allocated time has expired, a clear signal indicates that the walk-through period is over.

How to use it

The default walk-through time is set to **3 minutes**. Toggle **LEFT** or **RIGHT** to adjust the duration to the desired time.

To activate the **Walk-Through** function, navigate to the **Run Screen** and press and hold the **LEFT** and **RIGHT** buttons simultaneously. A clear countdown display will appear. To stop or exit the walk-through timer, press the **Green START** button on top.

DEVICE SETTINGS

What it does

Under **Device Settings**, you can configure several general features of the timer.

BT Wireless

Allows you to enable or disable the Bluetooth module. Turning Bluetooth **OFF** can be useful when you are not using any Bluetooth features, or when you wish to conserve battery power.

TOP BUTTONS

Allows you to swap the function of the top buttons between **MUTE / START** and **START / MUTE**, switching their position from left to right. This lets you place the most-used button closest to your preferred finger, depending on your grip and use case.

When the button functions are swapped, the LED colors are also switched accordingly, changing from **RED / GREEN** to **GREEN / RED**.

To change the button layout, go to the **TOP BUTTONS** menu and toggle **LEFT** or **RIGHT** to select the desired configuration.

TOP BRIGHT

Allows you to set the **illumination level** of the top buttons. Toggle **LEFT** or **RIGHT** in this menu to adjust the brightness to the desired level.

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.