



BSB Timing

User Manual

Version 1.2.3

1. Overview

BSB Timing is the digital traffic-light timing system for archery competitions following the rules of World Archery (WA). The app automatically controls preparation time, shooting time, and the order of archer groups, signalling every phase through traffic-light colour and horn sound — on iPhone/iPad as well as on Apple Watch.

2. Typical Setup

The following arrangement has proven itself in practice: a device (iPhone or iPad) is placed on a stand or tripod to the right or left of the shooting line, clearly visible to the archers. The coach stands behind the shooting line, or moves freely around the range, and controls the sequence conveniently from an Apple Watch on the wrist, without having to walk over to the device.

Important note about Apple Watch

An Apple Watch pairs exclusively with an iPhone, not with an iPad. For Watch remote control to work, the specific iPhone the Watch is paired with must be the device on which BSB Timing is actually displaying the active competition. If the coach prefers the larger display of an iPad for the archers, it can be set up alongside with the same configuration — the Watch will still only control the paired iPhone; the iPad would then need to be operated by hand separately.

Benefits of this setup:

- Archers can always clearly see the traffic light and remaining time
- The coach can trigger Pause, Abort, or Advance instantly, without leaving their position
- The screen stays awake automatically for the entire competition

3. Initial Setup

- Install the app from the App Store (on the display device, and optionally also on the iPhone paired with the Watch)
- Language: follows the system language automatically (German/English), can be set manually at the top of Settings
- Orientation: landscape is recommended when time and group should be especially large and visible at once; portrait works just as well
- Screen lock: disabled automatically while the app is in the foreground

4. The Start Screen

After launching, the app shows a red screen reading “STOP”. Below it are the current preset, ends, arrows per end, group mode, and — in two-group mode — the starting group. Three buttons appear at the bottom:

- Start – begins the competition
- AB CD – only visible in two-group mode, corrects the starting group (e.g. after an abort)
- Follow-up – opens the standalone follow-up shooting sequence

The gear icon at the top opens Settings — it is intentionally only visible on the start screen, so nothing can be changed by accident during an active competition.

5. Settings in Detail

Area	Description
Language	Automatic / German / English
Preset	Free, WA Outdoor, or WA Indoor — sets ends, arrows, and times all at once
Archers per target	AB (1 group) or AB/CD (2 groups, automatically alternating order)
Rounds & ends	Number of rounds (0 = unlimited, until stopped), ends per round, arrows per end
Times	Preparation time, shooting time (in 5-second steps), yellow warning, follow-up time per arrow
Sound	Volume plus a choice of six signal sounds — each previewable with its own test button

6. Running a Round

- Tap “Start” → Preparation (red, 2× horn, preparation time counts down)
- Shooting (green, 1× horn, shooting time counts down, turns yellow in the final seconds)
- Stop (2× horn) → in two-group mode, preparation for the next group; otherwise “Collect Arrows” (3× horn)
- “Start” during “Collect Arrows” begins the next end or round

7. Two-Group Mode (AB/CD)

- Both groups shoot one after another, each with a full preparation and shooting time
- Whichever group shot last automatically starts the next end
- The starting group can be corrected manually on the start screen at any time — handy after an abort, to resync the order with what's actually happening on the range

8. Safety Functions: Pause, Abort, Continue

Function	Effect
Pause	Instant, no confirmation needed — traffic light turns red, 2× horn
Resume	Continues from the same point with the remaining time, 1× horn
Abort	Stops immediately and jumps straight back to the start screen, 3× horn
Continue (during shooting)	Ends the current shooting time early — handy when all arrows are shot before time runs out

9. Follow-up Shooting

The “Follow-up” button (available on the start screen and during “Collect Arrows”) starts a standalone sequence for individual arrows:

- Choose an arrow count from 1 to 6; the total time is calculated and shown live
- Each arrow runs with its own preparation (10 s) and the follow-up time configured in Settings
- After the last arrow, a 3× horn sounds, then the app automatically returns to the previous screen

10. The Apple Watch Remote

The Watch app displays round, end, group, remaining time, and status in large, easy-to-read text. Tapping the screen switches to screen-filling control buttons, which hide themselves again automatically after a short time.

Controllable from the Watch:

- Start, Pause, Resume, Abort
- AB/CD toggle on the start screen
- Follow-up shooting – including setting the arrow count directly on the Watch
- “Back to Start” after an abort or when the competition finishes

The connection is established automatically as soon as the Watch app launches — even if it was started before the iPhone app, it will keep trying to connect automatically for a while.

11. Frequently Asked Questions

The app doesn't respond to input from the Watch.

Wait a few seconds and keep both devices in the foreground (not on the lock screen). The connection usually establishes itself within a few seconds.

There is no sound.

Check the volume in Settings, as well as the mute switch on the device itself.

The Watch shows “No competition active”.

The iPhone/iPad running BSB Timing needs to be in the foreground for the Watch to receive the current state.

12. Contact

Calogero Morello - BogenSport Bietigheim e.V. — the club's full contact details are always available on the app's Info page (accessible via Settings).