

BSB Mirror

User Guide

Version 1.2.4



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1. About BSB Mirror

BSB Mirror shows the camera image from your iPhone or iPad with a time delay — like a mirror with an adjustable delay of 0 to 30 seconds. This lets you review your archery shooting technique right after the shot, without needing a second person or a separate recording device.

The app was developed by Calogero Morello. and is bilingual (German/English, switchable automatically or manually).

Note: BSB Mirror never records or permanently stores anything. The camera image is only ever processed live in memory and is completely gone once you close the app.

2. Getting Started

1. Open the app. The club logo briefly appears on launch (splash screen, see title page).
2. On first launch, iOS asks for camera access. Please confirm with “Allow” — the app cannot work without camera access.
3. Right after that, the screen shows the live camera image.

If access was accidentally denied, it can be re-enabled anytime under iOS Settings → BSB Mirror → Camera.

3. Main Screen Overview

The main screen always shows the current camera image — live or time-delayed, depending on the chosen delay.

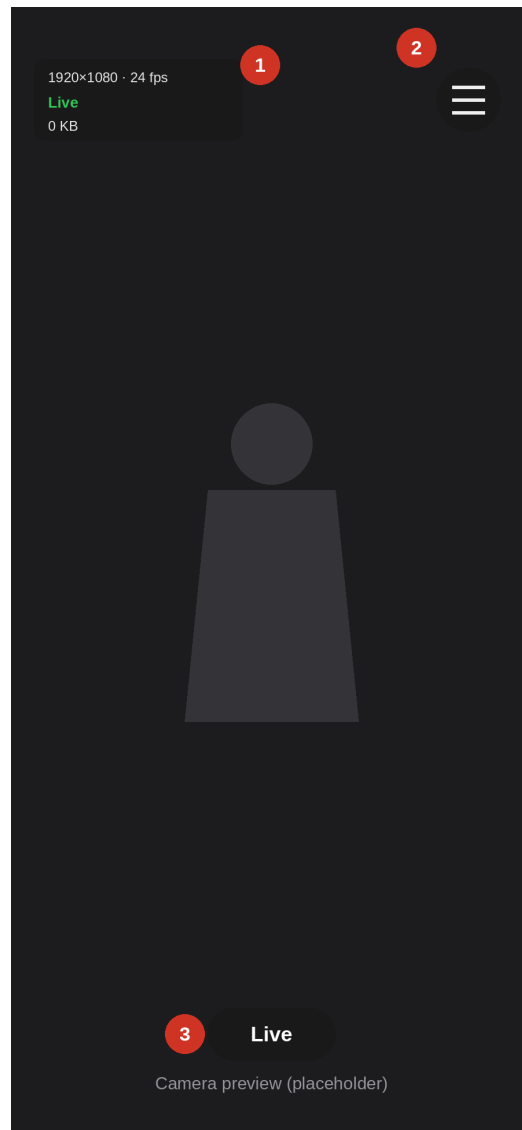


Diagram — main screen at 0 s delay (Live)

- ① Info box (optional): shows resolution/frame rate, buffer status, and buffer size. Can be toggled in the menu, see section 6.
- ② Menu button: opens settings, language, and legal notice (section 6).
- ③ Delay button: shows the current state (“Live” or e.g. “12 s”) and opens the delay setting when tapped (section 4).

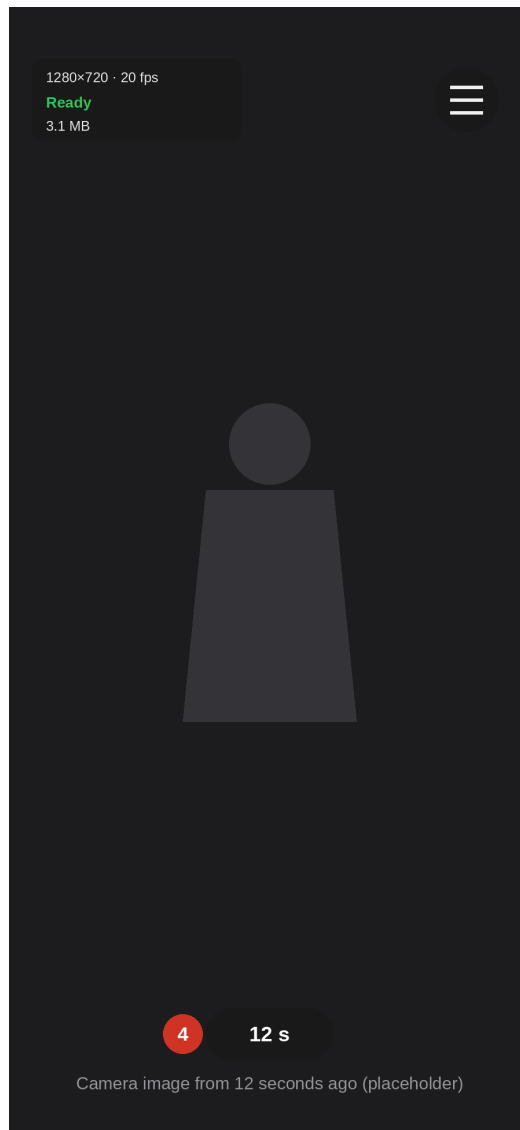


Diagram — main screen with a delay set

- ④ Once a delay is set, the button shows the number of seconds. The info box shows “Ready” (green) once enough footage is buffered — until then it shows red “Buffering X/Y s”, and the app automatically shows the live image in the meantime.

4. Setting the Delay

1. Tap the delay button at the bottom center.
2. A popup opens with a wheel for setting the delay (0 to 30 seconds) — simply scroll it with your finger.
3. Confirm with “Done”, or tap outside the popup.

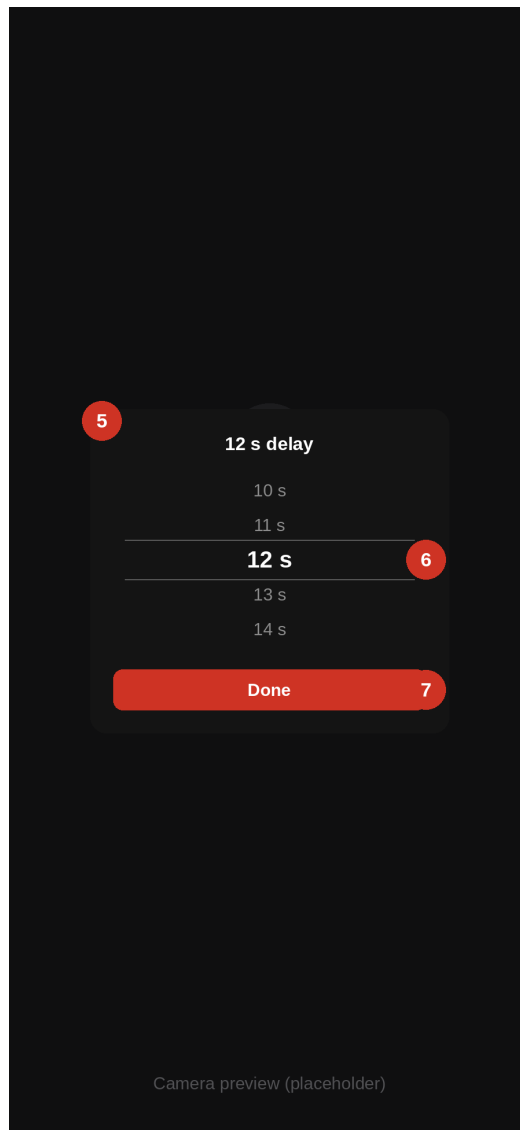


Diagram — delay popup with wheel picker

- ⑤ The popup shows the currently selected delay as text at the top.
- ⑥ Wheel picker: scroll up/down to change the value.
- ⑦ “Done” applies the selection and closes the popup.

While the popup is open, the camera image freezes — this saves processing power and makes the wheel picker perfectly smooth.

5. Zooming and Panning

The camera image can be magnified to see details more clearly:

- Pinch outward with two fingers on the image to zoom in (up to 5×), or pinch inward to zoom out.
- Once zoomed in, drag with your finger to pan around the enlarged view.
- Return to 1:1 by: tapping the image once, rotating the device, or pinching back close to 1:1 (snaps exactly into place automatically).

Note: Zoom is a purely visual magnification (not an optical camera zoom). At very long delays (21–30 s) the image resolution is lower, so zoom looks softer there.

6. Menu, Settings and Info

The menu button in the top right (②) opens the Settings page. A small gray “i” button there in the top right additionally opens a separate Info window with the logo, version, and legal notice.

Settings

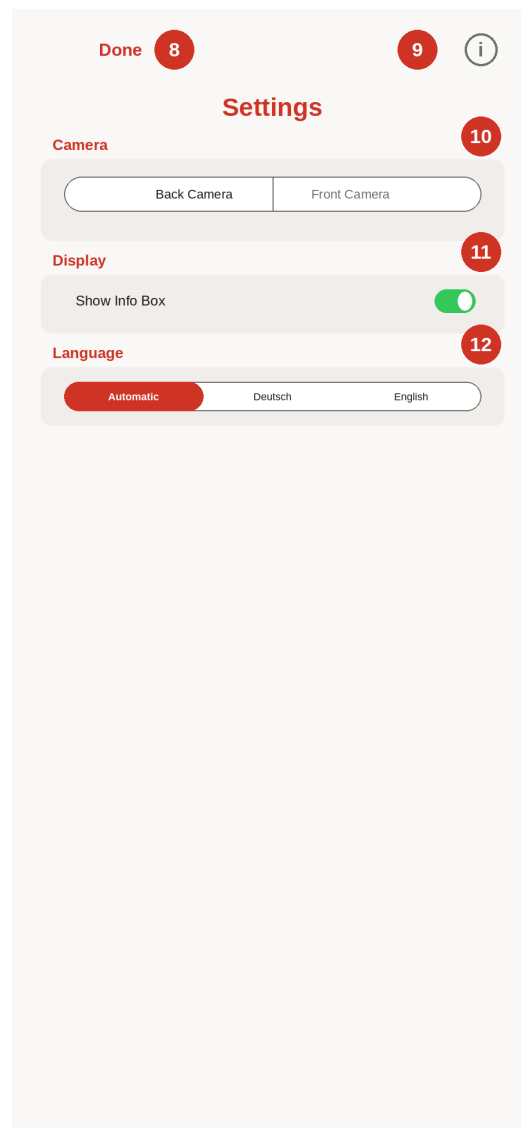


Diagram — Settings page

- ⑧ “Done” closes the page and returns to the camera image.
- ⑨ The gray “i” button opens the Info window (see below).
- ⑩ Camera: choice between back and front camera.
- ⑪ Display: toggles the info box (① on the main screen) on/off.
- ⑫ Language: Automatic (follows the iOS system language), German, or English.

Info Window

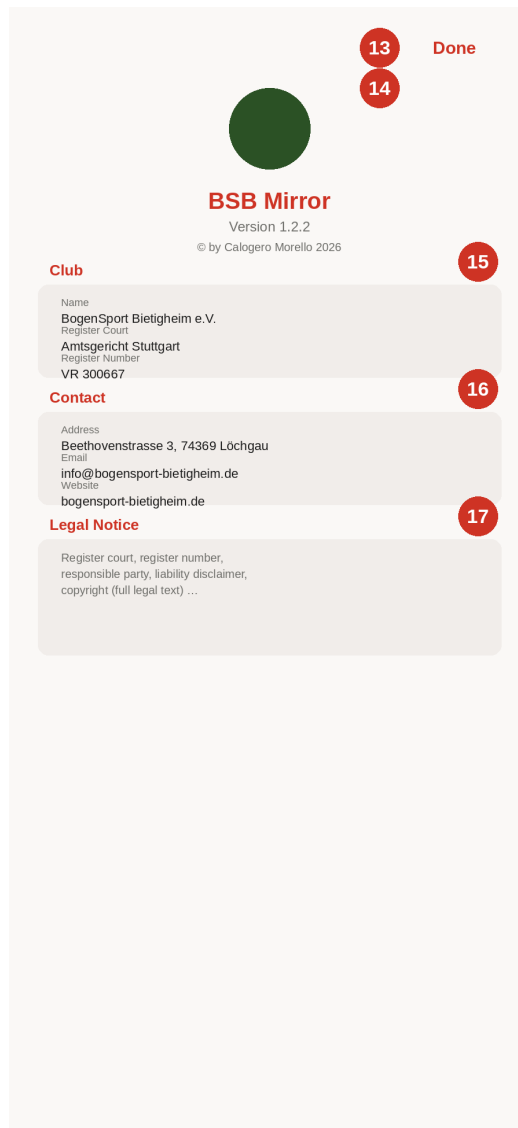


Diagram — Info window

- ⑬ “Done” closes the Info window and returns to Settings.
- ⑭ Logo, app name, and version/build number (automatically taken from the Xcode project settings).
- ⑮ Club: name, register court, register number.
- ⑯ Contact: address, email, website.
- ⑰ Legal Notice: register court/number, the person responsible under press law, the arbitration note, and the complete liability disclaimer (limitation of liability, external links, copyright).

7. Recommended Setup on the Shooting Line

For self-review right after the shot, this setup works well: the archer and the tripod both stand on the shooting line, side by side. The archer faces the target as usual, while the tripod next to them is turned to face the archer. This way, right after releasing, the archer can look at the iPad themselves and correct their form — without a second person and without entering the target area.

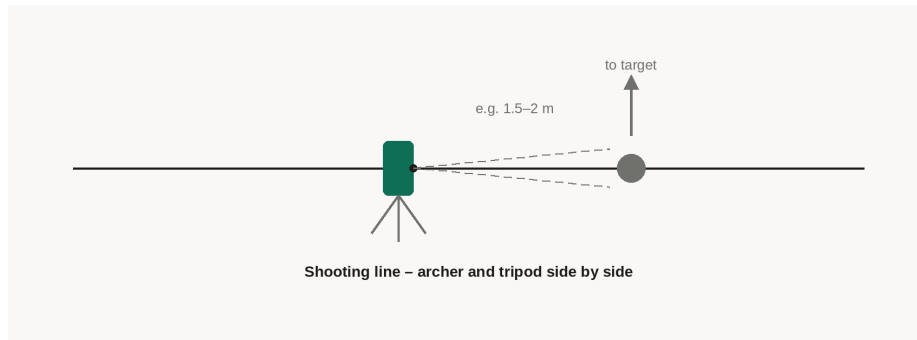


Diagram — setup on the shooting line (top view)

- A side distance of about 1.5–2 m usually captures the whole movement in frame.
- Tripod height around shoulder height, angled slightly toward the upper body — test the alignment at 0 s delay (live image) first.
- A short delay (e.g. 3–5 s) is usually enough to see your own motion right after releasing.
- Set up the tripod so it stands securely and doesn't intrude into the bow arm's range of motion.

Note: Nothing and no one should be in the target area while shooting is taking place. This setup deliberately stays entirely on the shooting line to avoid that.

8. Privacy

BSB Mirror works entirely offline:

- No recording, no permanent storage of the camera image.
- No user accounts, no ads.
- No data sent to any server — ours or third parties'.
- Only technical settings (selected camera, language, info box on/off) are stored locally on the device.

9. Frequently Asked Questions

The screen stays black

Check camera access: iOS Settings → BSB Mirror → Camera must be enabled.

The image is briefly live instead of delayed after rotating the device

This is normal: after a rotation, the delay buffer rebuilds from scratch (old frames would have the wrong orientation). The info box shows red “Buffering X/Y s” in the meantime; once it shows green “Ready”, the delay resumes normally.

I can't pan the zoomed image any further

Panning is intentionally limited so the image always fills the entire screen — a black border should never become visible.

10. Contact

BogenSport Bietigheim e.V.

Email: info@bogensport-bietigheim.de

Web: bogensport-bietigheim.de

App developed by Calogero Morello.