

Ski Race Timer - User Manual

GPS-Synchronized Race Timing for Ski Events

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Introduction

Ski Race Timer is a professional timing app for ski races. It works as a Progressive Web App (PWA) on any device and functions offline.

Key Features

- **GPS-synchronized timing** for accurate timestamps across devices
 - **Multi-device sync** to coordinate start and finish timers
 - **Gate Judge mode** for recording gate faults
 - **Two-run support** for slalom and giant slalom races
 - **Offline-first** - works without internet, syncs when connected
 - **Photo capture** - optional documentation for each timestamp
 - **Race Horology export** - industry-standard CSV format
 - **Bilingual** - English and German interfaces
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Getting Started

First-Time Setup

When you first open the app, an onboarding wizard guides you through setup:

1. **Language** - Choose Deutsch or English
2. **Device Name** - Name this timer (e.g., “Start Gate”, “Finish Line”)
3. **Device Role** - Choose Timer or Gate Judge
4. **Photo Capture** - Enable if you want photos with each timestamp
5. **Cloud Sync** - Enter a Race ID and PIN to sync with other devices

| **Tip:** Replay the wizard anytime from Settings → Show Tutorial

Installing as an App

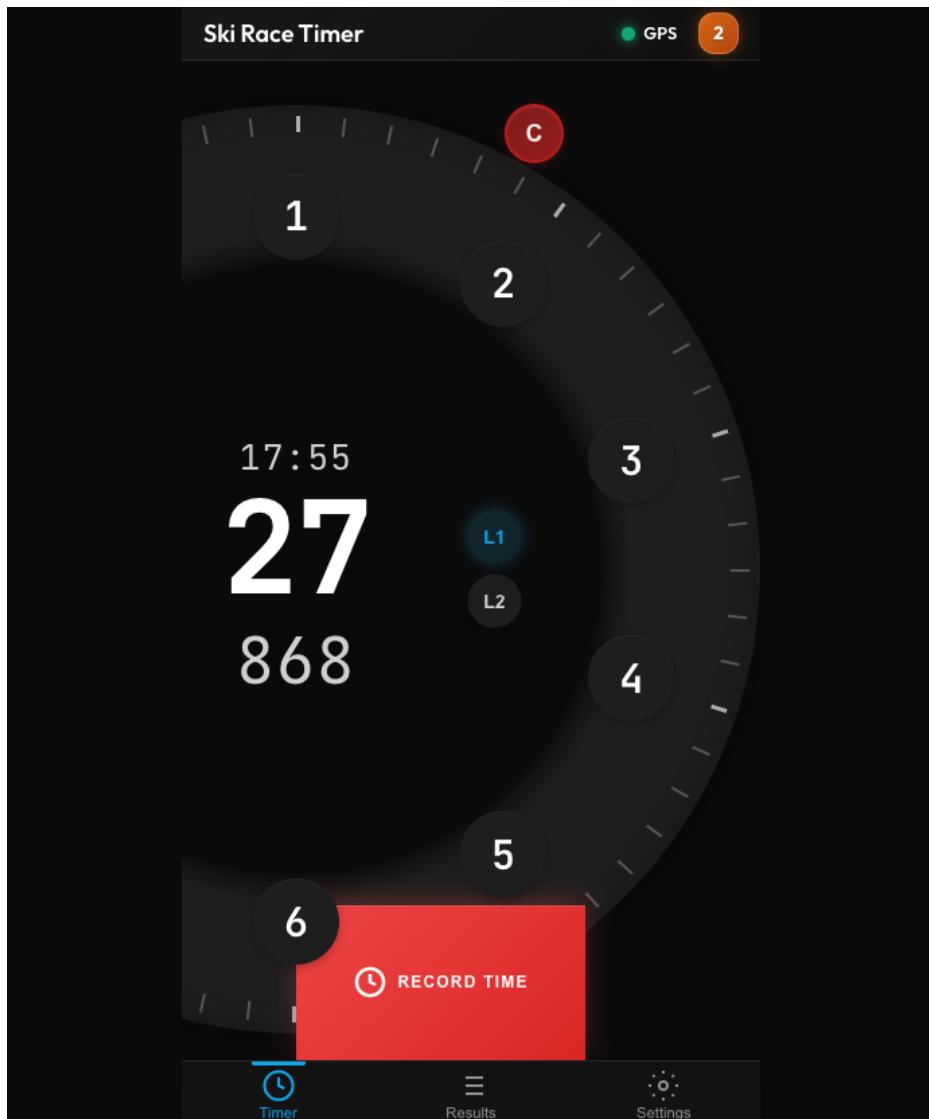
For the best experience, install Ski Race Timer on your device:

iOS (iPhone/iPad): 1. Open in Safari 2. Tap Share → Add to Home Screen

Android: 1. Open in Chrome 2. Tap Menu → Install app

Timer View

The Timer view is your main workspace for recording race times.



Timer View

Recording Times

1. **Enter bib number** using the number pad (displays as 3 digits: “5” → “005”)
2. **Select timing point** - Start (S) or Finish (Z/F)
3. **Select run** - L1/R1 or L2/R2 for two-run races
4. **Tap “Record Time”** - captures timestamp to millisecond precision

Number Pad

Button	Function
0-9	Enter bib digits
C	Clear entire bib
⌫	Delete last digit

Timing Points

- **Start (S)** - When racer leaves the start gate

- **Finish (Z/F)** - When racer crosses the finish line

Run Selection

- **L1/R1** - First run
- **L2/R2** - Second run

| **Tip:** All timers should use the same run setting during a race.

Auto-Increment

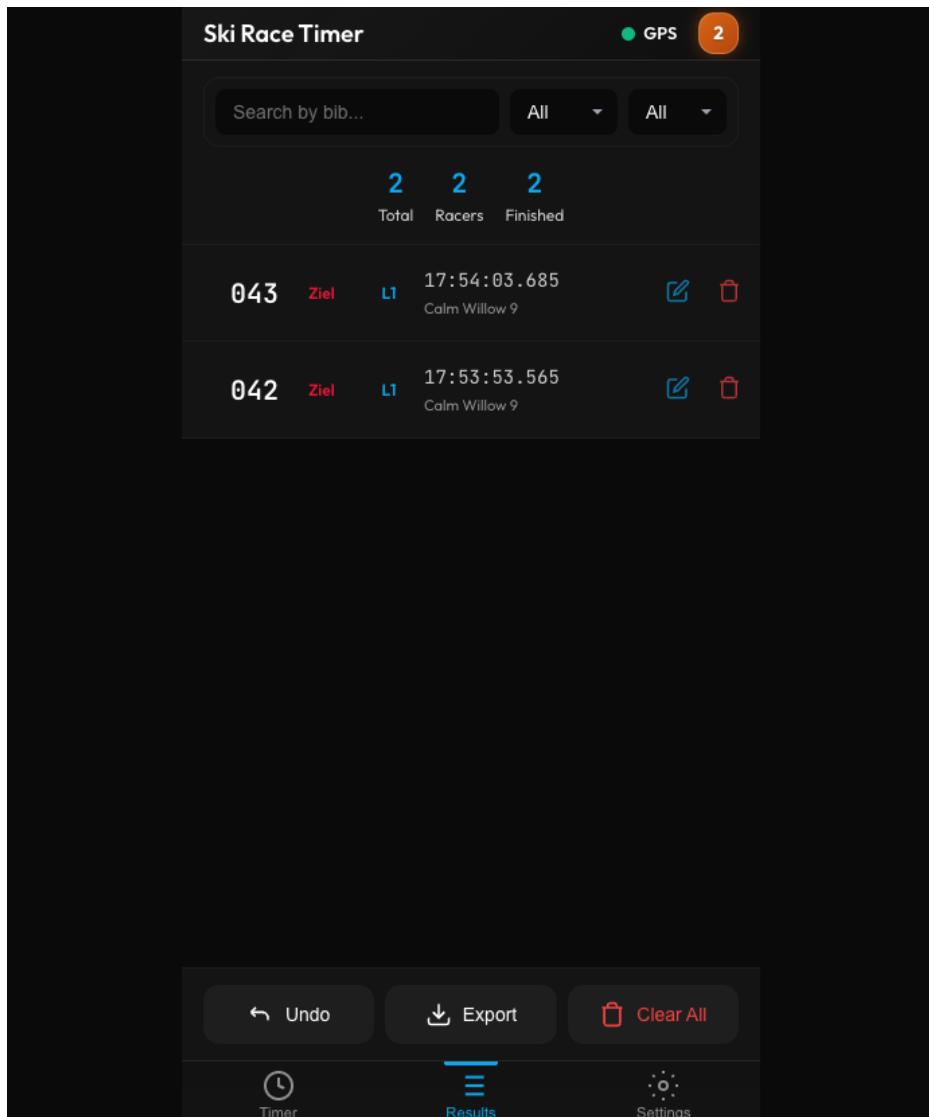
When enabled (default), the bib number increases by 1 after recording a Finish time. Useful when racers finish in order.

Duplicate Warning

Recording the same bib + point + run twice shows a yellow warning. The entry is still saved.

Results View

View, edit, and export all recorded entries.



Results View

Entry List

Each entry shows: - **Bib number** (large, left) - **Timing point** (Start/Ziel) - **Run** (L1/L2) - **Timestamp** (HH:MM:SS.mmm) - **Device name** (which timer recorded it)

Statistics

- **Total** - Number of entries
- **Racers** - Unique bib numbers
- **Finished** - Finish entries count

Search and Filter

- **Search** - Find entries by bib number
- **Point filter** - All / Start / Finish
- **Status filter** - All / OK / DNS / DNF / DSQ

Editing Entries

Tap an entry to edit: - Change bib number - Change run (L1 [?](#) L2) - Set status (OK, DNS, DNF, DSQ)

Note: Timestamp and timing point cannot be edited. Delete and re-record if needed.

Status Codes

Code	Meaning
OK	Normal completion
DNS	Did Not Start
DNF	Did Not Finish
DSQ	Disqualified

Actions

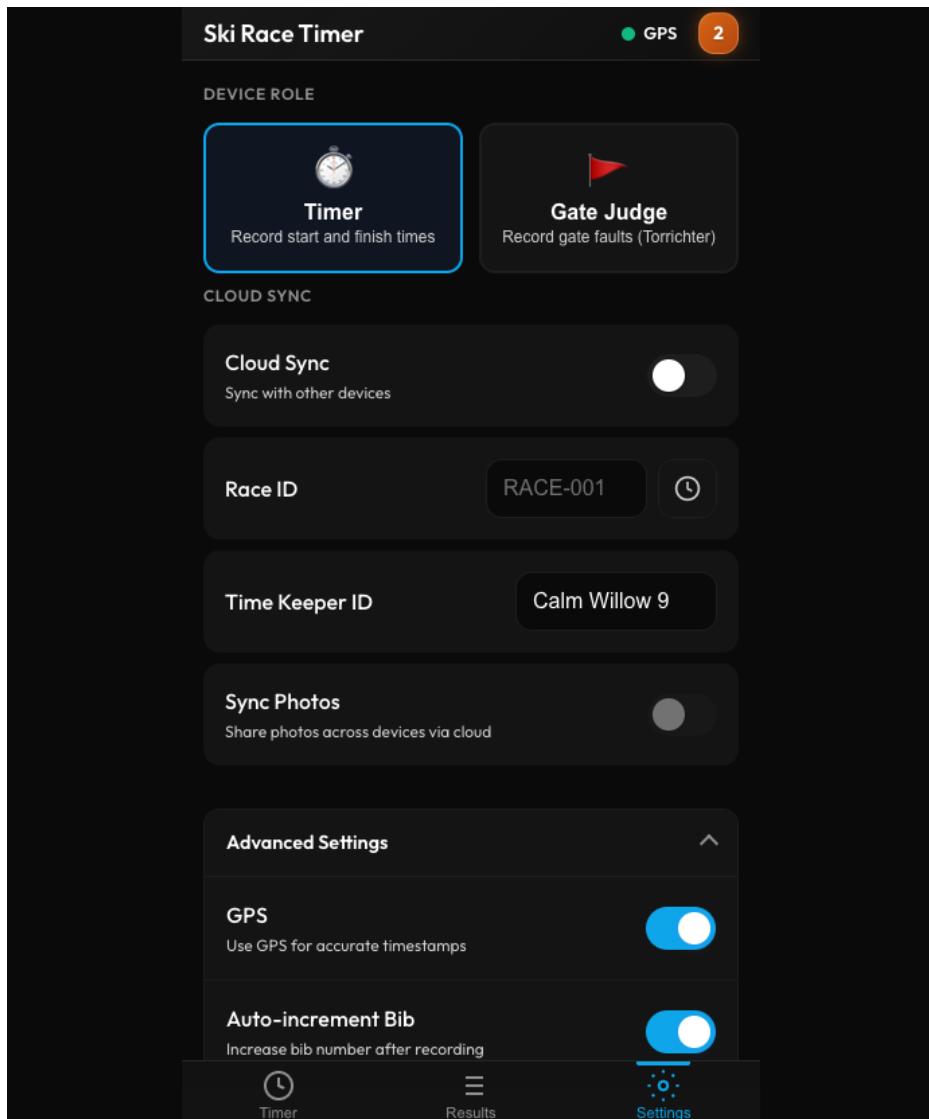
- **Undo** - Restore recently deleted entries
- **Export** - Download CSV for Race Horology
- **Delete All** - Clear all entries (with confirmation)

Export Format

Startnummer;Lauf;Messpunkt;Zeit;Status;Gerät
042;1;FT;12:34:56.78;OK;Finish Timer

Settings

Configure the app to match your needs.



Settings View

Device Role

Choose your role: - **Timer** - Record start and finish times - **Gate Judge** - Record gate faults

Cloud Sync

- **Cloud Sync** toggle - Enable/disable synchronization
- **Race ID** - Unique identifier for your race (e.g., "WINTERCUP-2026")
- **Device Name** - How this device appears to others
- **Sync Photos** - Share photos across devices

Photo Capture

When enabled, a photo is captured with each timestamp. Useful for: - Verifying bib numbers - Documenting finish line crossings - Evidence for disputes

Advanced Settings

- **GPS** - Use GPS for accurate timestamps
- **Auto-Increment** - Increase bib after Finish recording
- **Haptic Feedback** - Vibration on actions
- **Sound Feedback** - Audio beep on recording

Language

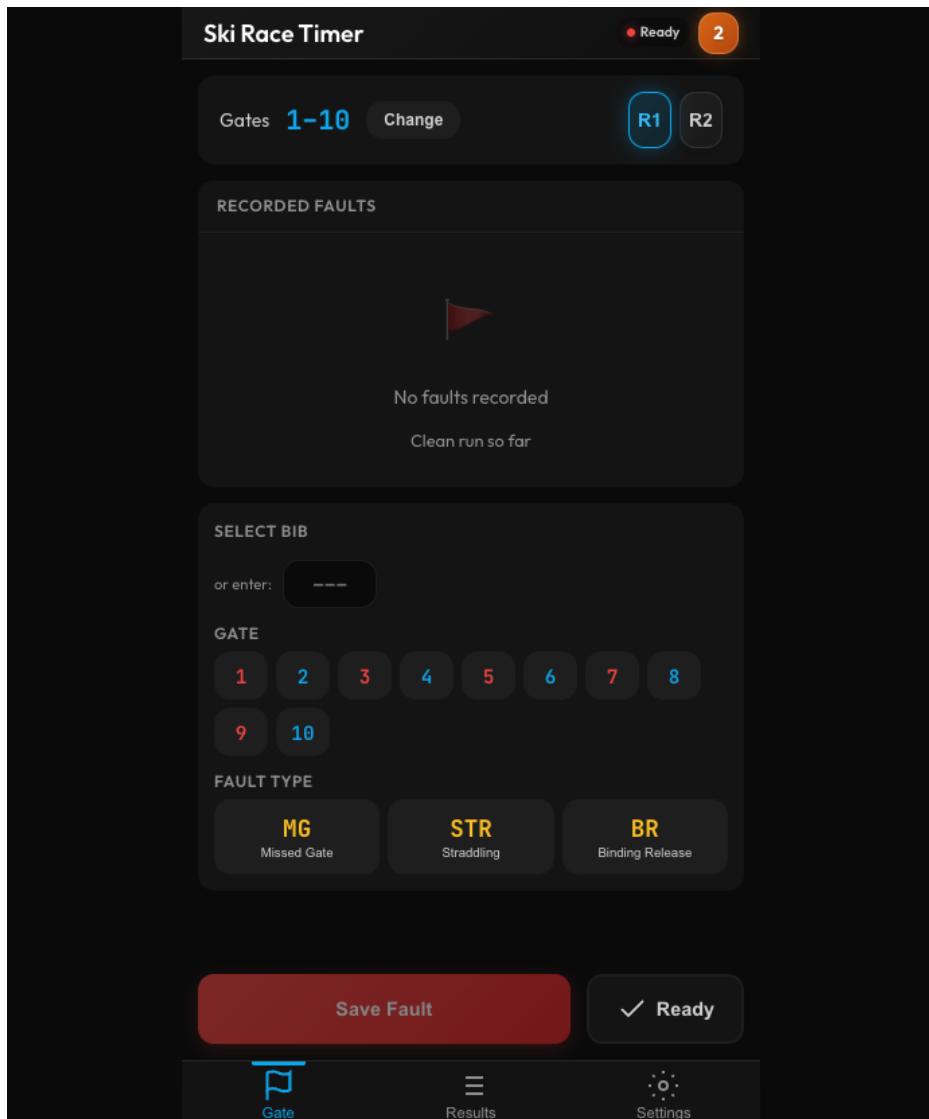
Toggle between **DE** (Deutsch) and **EN** (English).

Admin

- **PIN** - Set a 4-digit PIN to protect race data
 - **Manage Races** - View and delete synced races
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Gate Judge Mode

Record gate faults during the race.



Gate Judge View

Setup

1. Go to Settings → Select “Gate Judge” role
2. Tap “Change” to set your assigned gates (e.g., 1-10)
3. Select the current run (L1/L2)

Recording Faults

1. **Select bib** - Tap a recent bib or type manually
2. **Select gate** - Tap the gate number where the fault occurred
3. **Select fault type:**
 - **MG** - Missed Gate
 - **STR** - Straddling
 - **BR** - Binding Release
4. **Tap “Save Fault”**

Voice Notes

After recording a fault, you can add a voice note to document details:

1. **After recording** - A confirmation overlay appears with “Add Note” button
2. **Tap “Add Note”** - Opens the voice recording modal
3. **Speak your note** - The app transcribes your voice in real-time
4. **Edit if needed** - Correct any transcription errors
5. **Tap “Save”** - Note is attached to the fault (max 500 characters)

Adding notes to existing faults: 1. Tap a fault in the list to edit 2. Use the microphone button (MIC) next to the notes field 3. Or type manually in the text area

Note indicator: Faults with notes show a  icon in the list.

Tip: Voice notes work offline using your device’s speech recognition. You can always type manually if voice isn’t available.

Ready Status

Tap “Ready” to signal you’re prepared for the next racer. The status appears in the header.

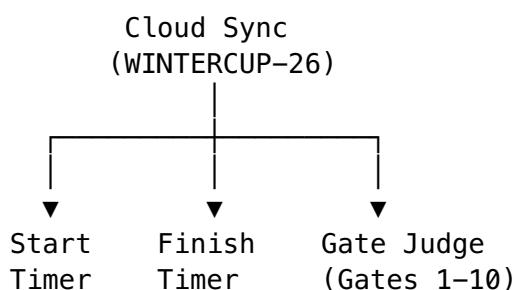
Keyboard Shortcuts (Gate Judge)

Key	Action
M or G	Select MG fault type
T	Select Threading (EF/STR)
B or R	Select Binding Open (BO/BR)
Alt+1	Select Run 1
Alt+2	Select Run 2

Multi-Device Sync

Coordinate multiple timing devices for professional race management.

Typical Setup



Setting Up Sync

First device: 1. Settings → Enable Cloud Sync 2. Enter Race ID (e.g., “CLUB-RACE-2026”) 3. Set a 4-digit PIN 4. Enter a device name

Additional devices: 1. Enable Cloud Sync 2. Enter the **same Race ID** 3. Enter the **same PIN** 4. Give each device a unique name

What Syncs

Data	Syncs?
Timing entries	Yes
Fault entries	Yes
Edits & deletions	Yes
Photos (if enabled)	Yes
Settings	No (per-device)

Recent Races

Tap the clock icon next to Race ID to quickly select from recently synced races.

Keyboard Shortcuts

Timer View

Key	Action
0-9	Enter bib digits
Backspace	Delete last digit
C	Clear bib
Enter / Space	Record timestamp
S	Select Start point
F	Select Finish point
Alt+1	Select Run 1
Alt+2	Select Run 2

Results View

Key	Action
↑ / ↓	Navigate entries
Enter / Space	Edit selected entry
E	Edit selected entry

Key	Action
Delete / D	Delete selected entry

Global

Key	Action
Escape	Close dialogs

Troubleshooting

Sync Issues

Entries not appearing on other devices: 1. Verify all devices have the same Race ID 2. Check the PIN is correct 3. Pull down on Results to refresh 4. Toggle Cloud Sync off and on

GPS Issues

GPS not working: 1. Enable GPS in Settings 2. Grant location permission 3. Use outdoors with clear sky view 4. Wait 30-60 seconds for satellites

Camera Issues

Photo capture not working: 1. Grant camera permission when prompted 2. Enable Photo Capture in Settings 3. Reload the app

General Issues

App not loading: 1. Clear browser cache 2. Reinstall the PWA 3. Try a different browser

Data seems lost: 1. Check you're using the correct Race ID 2. Data may be on another device 3. If synced, recover from another device

Support

Report Issues: <https://github.com/jmeckel/ski-race-timer/issues>

Version: Check Settings (bottom of page)
