



RaceCore RC Timing - User Manual



RaceCore RC Timing

User Manual and Race-Day Guide

Standard qualifying, finals, championships, practice and Reedy Race meetings

Software build Alpha 11.3.53 - current commercial terms

Promotion prices shown in this manual are valid until 30 June 2027.

Item	Price	Notes
RaceCore software licence	£49.98 promotion	Normal £99.95. One timing PC licence. Promotion until 30 June 2027.
RaceCore Web Live	£14.98 first year promotion	Normal £29.95/year. Publishes club live timing and results. Promotion until 30 June 2027.
RaceCore + Web Live	£64.95 promotion	RaceCore plus first year Web Live. Promotion until 30 June 2027.
RaceCore Broadcast - monthly	£15/month	Requires an active paid Web Live licence. Broadcast tab appears only with a valid RB- licence.
RaceCore Broadcast + Web Live - annual promotion	£150/year	Includes one year of Web Live. Promotion until 30 June 2027.
Major upgrades/new feature packs	May be chargeable	Routine fixes/minor updates may be included; substantial new additions may be sold separately.

PayPal payments: paypal@nimrifrc.co.uk

Pit board display: coming soon



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1. Overview

RaceCore RC Timing is a Windows race-control package for clubs running RC race meetings. It handles classes, drivers, heat generation, race control, practice, finals, championship points, printed reports, spectator display and live website publishing.

The software is designed for a race director/operator at the timing computer. It keeps meeting data separate from the installed program so upgrades do not overwrite your events, results or licences.

2. What is included

- Race control for timed heats and finals, including staggered and all-at-go qualifying starts.
- Championship support with points, dropped rounds and round-to-round championship seeding.
- Reedy Race style meetings with balanced rounds and standings.
- Practice session mode with timed session announcements at 10 minutes, 5 minutes and 1 minute remaining.
- Spectator display with light and dark themes.
- Web Live publishing to the RaceCore live feed and results pages, with RaceCore Broadcast available as a separately licensed plug-in.
- Print and report tools, including optional automatic race-sheet printing after each race.
- Pit board display support is under development and is listed as coming soon.

3. Installing RaceCore

For a normal customer installation, use the Windows installer produced by the release build process. Run the installer and follow the prompts.

For upgrades, install the new version over the existing installation. Do not delete the RaceCore data folder unless you intentionally want to remove all meetings and settings.

RaceCore keeps writable data outside Program Files. Your master database, events, backups and licence files are stored under %PROGRAMDATA%\RaceCore.

Before a major event or upgrade, copy %PROGRAMDATA%\RaceCore to a safe backup location.

4. Licensing and demo use

The demo/trial version lets a club evaluate RaceCore and Web Live before purchasing. RaceCore Broadcast is a separate paid plug-in and is not unlocked by the normal demo/trial. When ready to purchase, use the licence request form on the RaceCore website or send payment via PayPal to paypal@nimrifrc.co.uk with the club name, contact name, email address and Installation ID.



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Normal prices are RaceCore £99.95 and Web Live £29.95/year. The promotion until 30 June 2027 offers RaceCore at £49.98, the first year of Web Live at £14.98, or RaceCore + first-year Web Live at £64.95. RaceCore Broadcast is £15/month and requires a paid Web Live licence; the annual promotion is £150/year including Web Live.

If a major new module or significant new feature is added in the future, it may be sold as a chargeable upgrade. Small fixes and minor improvements are normally released as part of ongoing maintenance.

RaceCore uses the Installation ID shown in System Settings. Activation codes are matched to that ID, so copy it exactly when requesting activation. Desktop codes use RC-, Web Live codes use WL-, and RaceCore Broadcast codes use RB-. The Broadcast tab remains hidden until a valid Broadcast licence is installed.

5. First setup checklist

- Open RaceCore and confirm the RaceCore, Web Live and (if purchased) Broadcast licence status in System Settings.
- Open System Settings and check the timing decoder connection settings, audio voice, printer options, spectator display settings and Web Live settings if used.
- Create or review the classes used by your club.
- Add drivers, including transponder numbers and any optional member information.
- Create the event first. Classes and drivers can then be transferred directly from the Drivers page, and the required event classes are added automatically.

6. Classes and drivers

Classes define the race length, qualifying format, heat capacity, finals settings and timing rules. Set classes once and reuse them for future meetings.

Drivers are held in the master database. Each driver can have a default transponder and class-specific entries where required. Each class entry also has a Transfer to event tick box.

Transponder duplicate checks help avoid accidentally assigning the same transponder to two drivers.

When Transfer to event is ticked and the driver is saved, that driver/class entry is booked into the currently open event. If the class is not already part of the event, RaceCore adds the class automatically. Unticked class entries stay in the master database only.

7. Creating a meeting

Use the start screen or the Heats page to create or open a meeting. A new event no longer needs a class to be selected when it is created.



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Choose whether the meeting is standalone or part of a championship. For a championship meeting, link the event to the correct championship round.

On Open Existing Event, Delete Selected Event permanently removes the selected event after confirmation. RaceCore will not delete the event that is currently open; open another event first if necessary.

After opening the event, transfer the required driver/class entries from the Drivers page. RaceCore adds the relevant event classes automatically, then the Heats page is used to organise the qualifying heats.

8. Heat generation and championship seeding

Round 1 qualifying uses the normal ability/grade seeding.

For championship round 2 onward, RaceCore can seed qualifying heats from the current championship standings for that class. The championship leader is placed into the strongest/highest-numbered heat, followed by 2nd, 3rd and so on.

Drivers who are not yet in the championship table are treated as unranked and are placed below ranked drivers using their normal grade and booking order.

Standalone meetings are not affected by championship seeding.

The Heats page is arranged as four working panels: Event Classes, Available Class Drivers, Heats, and Drivers in selected heat.

Available Class Drivers shows only drivers booked into the selected event/class who are not already allocated to any heat in that class. A driver already in Heat 2 will therefore not appear as available merely because Heat 1 is selected.

If qualifying heats already exist, adding a driver to a heat applies the same allocation to every pending qualifying round for that class. For example, adding Sam to Round 1 Heat 2 also adds Sam to Heat 2 in Rounds 2, 3 and 4 where those rounds are still pending.

Move / Position works the same way: moving a driver between heats updates the corresponding allocation in all pending qualifying rounds for that class. Completed or already-run rounds are left unchanged.

9. Race Control

Race Control is the main race-day screen. It loads the next pending race, controls the between-race interval, calls drivers, starts the race sequence, watches lap crossings and saves the result.

The next-race interval controls include Pause, +1m, Time and Ready Now. The Time button lets the operator type an exact remaining time such as 3:30 or 5 for five minutes.



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During a race, RaceCore shows the running order, laps, times and finish state. The race leader receives a distinct double crossing beep.

At the end of a race, RaceCore can save the result and optionally print a race sheet automatically. This auto-print option can be turned on or off from Print & Reports.

Meeting Queue is opened from the Meeting Queue... button at the end of Race Actions rather than from a permanent main tab. The pop-up contains the full queue and the existing controls for Load Selected, Previous, Next Pending, Move Up, Move Down, Skip, Requeue and Return to Race Control.

The queue continues to refresh and drive the automatic next-race workflow even while the pop-up window is closed.

10. Practice Session

The Practice tab appears only when the timing decoder is connected.

Practice mode lets the club run open practice without creating normal race results.

Practice announcements are made at 10 minutes remaining, 5 minutes remaining and 1 minute remaining where those thresholds apply to the selected practice length.

11. Finals and results

After qualifying, use Standings & Finals to review standings and generate finals. The class selector refreshes from the active event whenever this page is opened and when classes/heats are changed.

Standings only include drivers who are genuinely part of that event/class through a qualifying heat allocation or a saved qualifying result. Drivers who exist only in the master database, or are merely booked but not placed into a heat, do not appear as car 0 entries.

RaceCore keeps final hierarchy clear: A is above B, B is above C and so on. Laps are not compared across different final letters for overall classification.

Final grids can be reviewed and edited before running finals.

12. Reedy Race meetings

Reedy Race style meetings use balanced rounds and standings rather than standard finals. Use the dedicated event format when creating the meeting.

RaceCore balances race sizes where possible and calculates standings using the configured Reedy Race scoring setup.



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13. Championships

Championships link multiple standard meetings into a series. Points are awarded from final classifications using the configured points system.

RaceCore supports all rounds counting or best-N-from-X championships.

DNS and disqualified results score zero points. DNF remains classified according to the recorded result and receives the appropriate finishing-position points.

From round 2 onward, qualifying heat generation can use the championship table so current championship position drives the heat order.

14. Spectator display

The spectator display is a read-only second-screen display for drivers and spectators.

It can be launched from System Settings and supports both dark and light themes.

Closing the spectator display does not stop RaceCore timing.

15. RaceCore Web Live

RaceCore Web Live publishes the meeting to the RaceCore website so drivers and spectators can view live data and meeting results online.

Current live feed link: <https://racecore.co.uk/results/>

Web Live normally costs £29.95/year. During the promotion until 30 June 2027, the first year is £14.98 when bought separately. A valid Web Live entitlement is also required for the monthly RaceCore Broadcast add-on. The annual Broadcast promotion includes Web Live in the same RB- bundle licence. The club folder is based on the registered club name and should stay consistent so public links do not move.

Use Web Live Configure to confirm venue name, club folder, meeting folder and update interval. Use Start/Reconnect to begin continuous updates and Publish Now to force an immediate update.

On the public results site, the Broadcast status control is red and shows BROADCAST OFFLINE when no current stream is available. While Broadcast is live it turns green, shows WATCH BROADCAST - LIVE, and opens the club's Broadcast page.



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16. RaceCore Broadcast

RaceCore Broadcast is an optional licensed plug-in that combines a live webcam picture with RaceCore timing information on the club's public RaceCore page. The Broadcast tab is hidden unless RaceCore has a valid RB-Broadcast entitlement.

- Monthly Broadcast add-on: £15/month. This requires a separate active paid Web Live licence.
- Annual Broadcast promotion: £150/year including Web Live, available until 30 June 2027.
- The annual RB- bundle carries the Web Live entitlement and publishing credential, so a separate WL-activation is not required for that subscription period.
- Current RaceCore-hosted video profile: 1280x720 at 15 fps using H.264/HLS. The website keeps only a rolling window of roughly 60 seconds of HLS segments; the meeting video is not archived by RaceCore.
- The club can choose a Top Bar or Side Tower overlay, place the tower on the left or right, set the tower width, set overlay opacity and choose which race/driver fields are displayed.
- The current operator page shows the RaceCore Website streaming workflow only. YouTube/RTMP settings are hidden from normal use.
- During the interval between races, the Broadcast clock is shown on two lines as 'Next Race In' with the remaining MM:SS time underneath so it stays readable in both Top Bar and Side Tower layouts.
- The public viewing URL uses the existing club Web Live folder, for example
https://racecore.co.uk/results/plymouth_rc_racing/broadcast/.

Broadcast is designed as an optional output. A camera, website or Internet problem must not stop or delay the race timing engine.

17. Printing and reports

Print & Reports contains race sheets, meeting reports, standings and championship outputs.

Automatic printing after each race can be switched on or off. Turning it off does not stop results being saved.

Use manual print/export options when you need a duplicate race sheet or report pack.

18. Backups and safe upgrades

Before a major meeting, copy the whole %PROGRAMDATA%\RaceCore folder to a safe backup location.

The most important items are racecore_master.db and the Events folder.

Installer upgrades are designed to preserve customer data. If testing a ZIP build directly, extract it to a new folder and do not run it from inside the ZIP.



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19. Troubleshooting

- No laps counted: check the timing decoder connection, transponder assignments and minimum lap settings.
- No speech: check the selected Windows voice and audio output. Use the audio test in System Settings.
- Spectator display on wrong monitor: change the monitor number in System Settings and relaunch the display.
- Web Live not updating: confirm the Live Feed licence, internet connection, club folder, meeting folder and update settings, then use Start/Reconnect or Publish Now.
- Broadcast video not appearing: confirm the camera is available, RaceCore Broadcast shows the HLS upload as connected, and the public /broadcast/ page is open. The direct RaceCore profile is fixed at 720p/15 fps.
- Broadcast countdown does not fit: current builds use the two-line 'Next Race In' / MM:SS layout. If an older one-line layout is still shown on the public page, refresh the website files/browser cache.
- Standings shows an unexpected car 0 driver: current builds filter standings to drivers actually allocated to the event/class or carrying a saved qualifying result. Master-database-only drivers should not be listed.
- Broadcast tab missing: open System Settings -> Licence and confirm a valid RB- Broadcast licence. A monthly Broadcast ADDON also needs a separate active paid Web Live licence; an annual Broadcast BUNDLE includes Web Live.
- Licence prompt after upgrade: confirm you are using the latest build with Installation ID stability fixes and that the same %PROGRAMDATA%\RaceCore data folder is still present.

20. Pit board display

The RaceCore pit board is currently in development and should be marketed as coming soon.

The current development board uses a 64x64 RGB LED display concept, but this should not yet be treated as a final commercial product.

21. Race-day quick workflow

Stage	Action
Before opening	Back up the RaceCore data folder if this is an important meeting.
Open RaceCore	Confirm licence/demo status, timing decoder connection and audio.
Prepare meeting	Open/create the event. Transfer the required driver/class entries from Drivers; RaceCore adds the event classes automatically. Arrange drivers in the Heats page and check the Meeting Queue pop-up.
Start meeting	Use Race Control to start the interval, call drivers, call start order and run the race sequence. Use Meeting Queue... from Race Actions when the full



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	race order needs checking. If Broadcast is licensed, start it only after the camera/layout preview is correct.
During racing	Monitor crossings, signal strength, order, corrections and race log. Driver additions or heat moves made before a pending qualifier are linked across the remaining pending qualifying rounds.
After each race	Let RaceCore save the result and print automatically if enabled.
After qualifying	Open Standings & Finals, choose the event class, review only the drivers actually allocated/resulted in that class, then generate finals or run the next championship step.
End of day	Print/export results, update championships, stop RaceCore Broadcast and Web Live, then make a backup.

22. Purchasing

To purchase, use the licence request form on the RaceCore website or send PayPal payment to paypal@nimrifrc.co.uk. Include the club name, contact name, email address and RaceCore Installation ID.

Promotion until 30 June 2027: RaceCore £49.98; Web Live first year £14.98; RaceCore + first-year Web Live £64.95; RaceCore Broadcast £15/month with active Web Live; or RaceCore Broadcast annual promotion £150 including one year of Web Live. Normal RaceCore/Web Live prices are £99.95 and £29.95/year.

Routine fixes and normal updates may be supplied without charge. A major version, substantial new feature or separately developed module may carry an upgrade charge. Promotional prices are subject to the stated promotion end date.