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PRODUCT INFORMATION SHEET

PI TOOLBOX ONE TIMING IRACING PLUGIN

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Version number: 0.1

PASSION | PRECISION | PERFORMANCE

PI TOOLBOX ONE TIMING IRACING PLUGIN

OVERVIEW

- Live PACETEQ ONE TIMING and scoring for every car in an iRacing session
- Two dedicated displays: Standings and Circle of Doom
- Per-car position, gap, interval, sector, speed-trap and lap-time channels
- Timing and car telemetry in the same Pi Toolbox outing
- Live in a real-time outing, or saved to PDS for post-session review
- Live timing requires Pi Toolbox Plus; saved sessions open in any edition, including Lite



POS	POSC	#	TLA	Name	Class	Manufacturer	Team	Best Lap	Leader	Class Leader	Interval	Stint	#3 11.57
1	1	5	#5	Steve Myers		Aston Martin Valkyrie LMH	Steve Myers	1:48.00	LAP	LAP	LAP	4	11.62
2	2	3	#3	Jason Brylogle		BMW M Hybrid V8 (EVO)	Jason Brylogle	1:48.80	+2.29	+2.29	+2.29	4	11.57
3	3	12	#12	Benjamin Laws		Aston Martin Valkyrie LMH	Benjamin Laws	1:48.71	+6.47	+6.47	+4.18	4	11.67
4	4	44	#44	Mike Bergh		Acura ARX-06	Mike Bergh	1:49.69	+12.31	+12.31	+5.84	4	11.68
5	5	14	#14	Lauren Russo		Cadillac V-Series.R	Lauren Russo	1:49.77	+14.70	+14.70	+2.40	4	11.85
6	6	118	#118	Derek Robinson		Aston Martin Valkyrie LMH	Derek Robinson	1:51.09	+15.87	+15.87	+1.17	4	11.73
7	7	7	#7	Kipling Knaus		Cadillac V-Series.R	Kipling Knaus	1:50.94	+19.35	+19.35	+3.48	4	11.87
8	8	9	#9	David Camillo		Acura ARX-06	David Camillo	1:50.71	+19.18	+19.18	-	4	11.83
9	9	26	#26	Chris Leone		Ferrari 499P	Chris Leone	1:49.28	+30.58	+30.58	+11.39	4	11.67
10	10	64	#64	Tom Brown5		Acura ARX-06	Tom Brown5	1:50.57	+8.21	+8.21	-	3	2:28.78
11	11	96	#96	Robert Nash		Porsche 963 GTP	Robert Nash	1:50.01	+38.01	+38.01	+29.80	3	11.58
12	12	13	#13	Nick Leep		Audi R8 LMS EVO II GT3	Nick Leep	2:04.56	+52.57	+52.57	+14.56	3	14.00
13	13	07	#07	Nim Cross		Ferrari 296 GT3	Nim Cross	2:04.98	+52.98	+52.98	+0.41	3	13.97
14	14	10	#10	Tony Gardner		Porsche 911 GT3 R (992)	Tony Gardner	2:04.39	+54.39	+54.39	+1.42	3	13.88
15	15	17	#17	Tom Brown		BMW M4 GT3 EVO	Tom Brown	2:06.68	+58.68	+58.68	+4.29	3	13.80
16	16	323	#323	Jonas Meyer		Chevrolet Corvette Z06 GT3.R	Jonas Meyer	2:10.22	+1:00.75	+1:00.75	+2.07	3	2:48.17
17	17	8	#8	Thomas Leyva		Lamborghini Huracan GT3 EVO	Thomas Leyva	2:10.62	+1:06.18	+1:06.18	+5.42	3	14.25
18	18	6	#6	Greg Hill		Acura NSX GT3 EVO 22	Greg Hill	2:09.81	+1:08.92	+1:08.92	+2.75	3	14.37
19	19	1	#1	Nigel Pattinson		Mercedes-AMG GT3 2020	Nigel Pattinson	2:08.07	+1:09.08	+1:09.08	+0.15	3	14.57
20	20	11	#11	Drew Adamson		Ford Mustang GT3	Drew Adamson	2:10.54	+1:09.53	+1:09.53	+0.45	3	2:48.63
21	21	4	#4	David Lin		Aston Martin Vantage GT3 EVO	David Lin	2:11.55	+1:16.55	+1:16.55	+7.02	3	14.33
22	22	2	#2	Mike Gladfelter		McLaren 720S GT3 EVO	Mike Gladfelter	2:10.92	+1:36.25	+1:36.25	+19.70	1	14.55
23	23	37	#37	Chris Weidner		Porsche 963 GTP	Chris Weidner	1:50.01	+1:46.54	+1:46.54	+10.29	2	11.82

PACETEQ

The Pi Toolbox ONE TIMING iRacing Plugin brings PACETEQ's ONE TIMING timing and strategy software into Pi Toolbox for iRacing. Timing and scoring for every car in the session arrives alongside the iRacing car telemetry, so strategy and performance are worked from the same data.

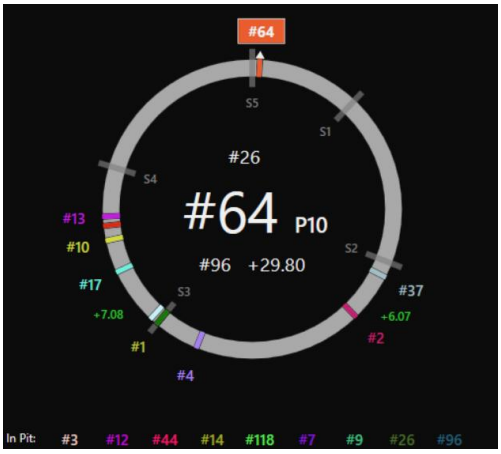
Each car's timing is delivered as its own set of channels in a parent/child outing. Position, gaps, intervals, sector times, speed-trap values, lap times, tyre compound, stint and pit-stop count can be plotted, compared and used in Pi Math like any other channel.

Two displays are added for the plugin. The Standings display is a live timing screen ordered by position. The Circle of Doom display shows every car's time-relative position around the lap, so gaps on track, pit stops and traffic are read at a glance.

Data flows one way: Pi Toolbox reads from iRacing and ONE TIMING through the Pi Toolbox iRacing Telemetry Converter and sends nothing back. Live timing arrives in Pi Toolbox as a real-time outing over telemetry, which requires a Pi Toolbox Plus licence.

With Save to PDS ticked in the converter, the timing data is saved to a PDS file alongside the telemetry. The PDS opens in any Pi Toolbox edition after the session, including Lite. The Standings and Circle of Doom displays and the timing channels are enabled by the plugin licence, whatever the edition.

SPECIFICATIONS



Software	
Host application	Pi Toolbox 14.1 and above Pi Toolbox iRacing Telemetry Converter
Edition	Pi Toolbox Plus for live timing over telemetry Saved PDS sessions open in any edition, including Lite
Displays	Standings and Circle of Doom enabled by the plugin licence on every edition
Plugin licence	Pi Toolbox ONE TIMING iRacing Plugin (36P-099177)
Activation	In Pi Toolbox or the Cosworth Software Licensing Configuration Tool

Data source	
Simulator	iRacing
Timing service	PACETEQ ONE TIMING

Data delivery	
Interface	Pi Toolbox iRacing Telemetry Converter
Data model	Per-car channels and events in a parent/child outing
Direction	One way: nothing is sent back to iRacing or ONE TIMING
Modes	Live as a real-time outing; saved to PDS for post-session review

Displays	
Standings	Live timing screen ordered by position
Circle of Doom	Time-relative position of every car around the lap
Other displays	All timing channels available to every Pi Toolbox display

Timing data	
Per car	Position, gaps, interval, sector times, speed trap, last and best lap
Race state	Class, tyre compound, stint, pit stops, track-limit warnings, status

STANDINGS DISPLAY

The Standings display presents live timing for every car in the session, ordered by current position. It updates with the latest values in a real-time outing and follows the cursor when a saved PDS is reviewed.

Right-click the display and select Layout to choose what is shown. Minimal, Standard, Class and Everything quick layouts give a starting point; individual columns, column headings, grid lines and classes can then be shown or hidden. Click any column heading to sort by it, and click again to reverse the order.

Depending on the timing supplied, the Standings display can show:

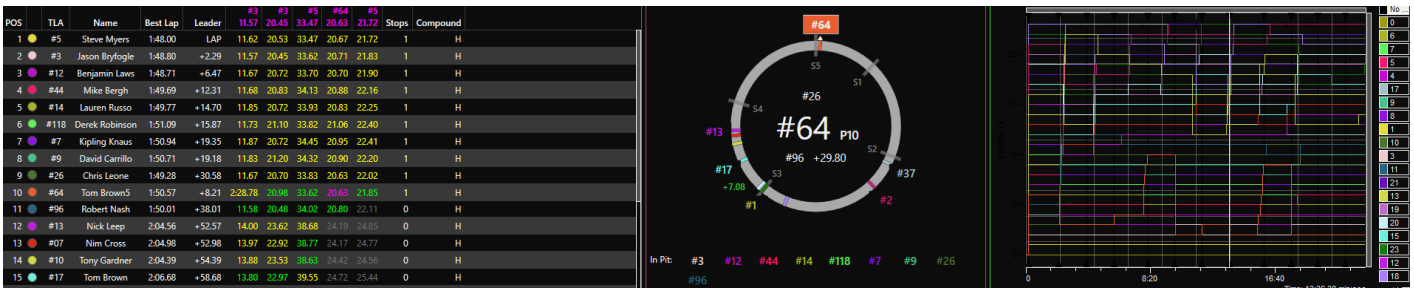
- Overall and class position
- Racing number, entrant and team
- Gap, gap in class and interval
- Laps behind the leader and the car ahead
- Sector times and speed-trap values
- Last and best lap time
- Tyre compound, lap in stint and pit-stop count
- Track-limit warning count

CIRCLE OF DOOM DISPLAY

The Circle of Doom display shows the time-relative position of every car around a lap. Each car is a line in its entry colour, labelled with its three-letter acronym. The start/finish line sits at the top of the ring, with labelled timing markers placed around it by relative sector time.

Cars on an out lap are drawn outside the ring and cars in the pits inside it. Retired cars are listed below the ring, and an arrow marks the leader of each class.

Right-click the display and select Layout to show all classes or choose individual classes. Highlight Driver picks out one or more drivers for emphasis.



TIMING MARKER POSITIONS ARE CALIBRATED FROM LIVE SECTOR TIMES, SO THEY SETTLE ONCE SEVERAL CARS HAVE COMPLETED LAPS.

TIMING CHANNELS AND EVENTS

PER-CAR CHANNELS

Channel	Unit	Description
Position	–	Overall position
Position In Class	–	Position within class
Gap	s	To overall leader
Gap In Class	s	To class leader
Interval	s	To car ahead
Last Lap Time	s	Latest lap
Best Lap Time	s	Session best
Lap Count	–	Laps completed
Lap In Stint	–	Laps this stint
Laps Behind Leader	–	Laps down
Tire	–	Tyre compound
Speed Trap	km/h	Speed-trap value
Stop Count	–	Pit stops made
Track Limit Warning Count	–	Warnings received
Status	–	Running state
Sector times	s	One per sector
Distance	m	Where track length is known

EVENTS

Event	Raised	Description
Sector 1 to n	Per car	Each sector crossing
End of lap	Per car	Each lap completed

[NEEDS: engineering to confirm channel and event names against the 14.1 release build]

GETTING STARTED

- Install the Pi Toolbox iRacing Telemetry Converter on the iRacing PC.
- In Pi Toolbox, open Pi Toolbox Updates, tick Include pre-release (beta) versions under Update settings and select Check now, so the 14.1 build with the ONE TIMING displays is offered. Install it.
- Activate the Pi Toolbox ONE TIMING iRacing Plugin licence, and Pi Toolbox Plus for live timing, in Pi Toolbox or the Cosworth Software Licensing Configuration Tool.
- In the converter, start both the iRacing and ONE TIMING inputs. Tick Save to PDS to keep the session, including the timing data, for review afterwards.
- In Pi Toolbox, open the real-time outing. Timing arrives as a parent outing with a child outing for each car.
- Drag child outings into new tasks to manage them across the displays in the workbook, or copy and paste them into new displays. The channels shown in a display are then available for every child outing in that task.
- Add the Standings and Circle of Doom displays to the workbook and use Layout to choose classes and columns.
- After the session, open the saved PDS in Pi Toolbox, including Lite. The timing data is available again and both displays follow the cursor for debrief.

PARENT AND CHILD OUTINGS

The converter delivers each session as a parent outing for the whole session, with a child outing for every car. Each child carries that car's timing channels under the same channel names, so a display built for one car works for any other.

Child outings can be moved and copied like any other outing:

- Drag child outings into a new task to manage them together across every display in the workbook.
- Copy and paste child outings into a new display to add those cars to it directly.
- Once the cars are in a task, the channels shown in a display are available for every child outing in that task.

This lets engineers build the comparisons that matter without rebuilding displays: a task for the class leaders, another for their own car and its nearest rivals, each driving the same plots.

TASK SETTINGS FOR TIMING

Under Time Regions in the task properties, set Initial Selection to All Regions and Region finder to Outing. The whole session is then shown rather than a single lap.

With the Position channel plotted for each car in a Time/Distance display, this gives a full lap chart: every car's position across the whole session.

ORDERING INFORMATION

Description	Part number
Pi Toolbox ONE TIMING iRacing Plugin licence	36P-099177

Requires Pi Toolbox 14.1 or later and the Pi Toolbox iRacing Telemetry Converter. Live timing over telemetry requires a Pi Toolbox Plus licence; saved PDS sessions open in any edition, including Lite. The timing displays and channels need the plugin licence on every edition.

WORKS WITH

Product	Role
iRacing	Simulator
PACETEQ ONE TIMING	Timing and strategy

SOFTWARE INFORMATION

Software	Description
Pi Toolbox	Professional data analysis (v14.1 and above; Plus for live timing, Lite for saved sessions)
Pi Toolbox iRacing Telemetry Converter	Live iRacing and ONE TIMING data into Pi Toolbox, with Save to PDS

REVISION HISTORY

Document code	Revision	Date	Author	Change history
29P-099177-P	1.0	17/11/2026	Tom Brown	Released Version

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