

# Analysis Tool WinDarab V7



- ▶ State of the art user interface, versatile diagrams
- ▶ Numerous analysis functions
- ▶ Customizable mathematical channels and filters
- ▶ User constants and scripting in math editor makes building advanced analysis functions easier
- ▶ Online Feedback System for Troubleshooting and help

WinDarab V7 is an evaluation tool for monitoring and analyzing of logged data and is specially designed for motorsport use. Monitor vehicle data using on-line telemetry and compare logged data by reading out your data logger. WinDarab V7 features a state of the art user interface and reads out both engine and chassis data.

Additional licensed COM-API offers flexibility to control and handle WinDarab and Data externally.

Choose between the *Free* and the *Expert* version depending on your purpose.

The enormous bandwidth of features makes WinDarab V7 a perfect evaluation tool for motorsport engineers.

## Application

### Diagrams

- Oscilloscope
- X-/Y-plot to create scatterbands
- Histogram
- 3D-diagram

### Analysis

- Overlay of different laps
- Time or distance based analysis
- Absolute and relative values
- One-touch channel statistics (min./max., avg., etc.)
- Regression lines, user defined lines
- Lap reports and lap based comparisons
- Replay offline data in realtime

### Advanced Analysis

- User defined math channels

User defined conditions to filter data

FFT analysis

### Racetracks

- Racetrack creation based on v/acc or GPS data
- Racetrack segmentation

### Telemetry

- Replay online data in realtime
- Gauges for realtime visualization

### User Interface

- Flexible display setup and arrangement
- Storable display setup and arrangement
- Lap browser

### Data Transmission

- Direct data input without intermediate hardware
- Protection/encryption of logged data files
- ASCII import and export

### License System

- Dongle-free working in all WinDarab V7 variations
- Activation/update via internet
- Annual maintenance for up-to-date versions

### Additional

- Map Creator for easier calibration data analysis and preparation
- Outing/Lap based analysis for circuit racing and alternative layout for rally or test bench usage with configurable file layout (e.g. Road/stage mode-based layout)
- Persistent math channels allow saving math channel in original data file
- Hardware or user defined events with configurable rules

Video analysis with local video files or network stream (with telemetry)

### Environment

#### PC

IBM PC Pentium/AMD Athlon compatible, min. 1.6 GHz

Min. 1 GB RAM

Min. 1 GB free HD space

VGA / WGA monitor (min. 1,024 x 768)

Recommended Operation System: Windows 10 or 11

### Installation Notes

Yearly maintenance is recommended, no components to replace

Programming interface COM-API requires active maintenance

### Legal Restrictions

Generally blocked are direct and indirect business involving high risk destinations, including Russia, Belarus, Cuba, Iran, North Korea, Syria, Libya, Afgh-

anistan, and certain non-governmental controlled Ukrainian regions. This list may change as geopolitics evolve.

### Ordering Information

#### WinDarab Free Version

Order number **free download at our homepage**

#### WinDarab Expert

1 User license

Order number **BG02.000.076**

#### WinDarab Expert

3 User license

Order number **BG02.000.006**

#### WinDarab Yearly Maintenance

Order number **BG02.000.007**

### Software Options

#### COM-API for WinDarab Expert

Yearly License

Order number **BG02.000.008**

#### WinDarab Telemetry External Data Stream

Yearly License

Order number **BG02.000.066**

**Dimensions**

**WinDarab Features and Versions Overview (v7.11)**

	Free	Oder Number BG02.000.076 Expert (1 User licence)	Oder Number BG02.000.006 Expert (3 User licence)
Max. open files	2	unlimited	unlimited
Max. measuring data windows	4	unlimited	unlimited
Max. areas in measuring data windows	2	+	+
Histogram	+	+	+
x/y plot	+	+	+
Distribution	+	+	+
Map Creator	+	+	+
min/max-tables	+	+	+
Fourier-transformation	+	+	+
Outing report	+	+	+
Lap analysis	-	+	+
Flowcharts	-	+	+
Instrument panel	+	+	+
User defined physical units	+	+	+
Racetrack generation via speed/lateral G or GPS	+	+	+
Video analysis (local video or network stream)	-	+	+
Available operators for math channels	+, -, *, /, ^, sqrt (x),	All	All
User constants	-	+	+
Persistent math channels	-	+	+
Events, Hardware and User Defined Rules	-	+	+
Extras settings/comments	-	+	+
Desktop load/save	+	+	+
Telemetry Bosch	+	+	+
Telemetry External Data Stream	-	Additional yearly license (BG02.000.066)	Additional yearly license (BG02.000.066)
ASCII export	-	+	+
Data file types supported	.bmsbin	All (.bmsbin, .ascii, .mf4 etc.)	All (.bmsbin, .ascii, .mf4 etc.)
COM-API	-	Additional yearly license (BG02.000.008) + valid maintenance required	Additional yearly license (BG02.000.008) + valid maintenance required
Maintenance and support	no support	Yearly maintenance for updates and support. Support through built-in Feedback System. License migration 1 time per year. OEM users and dealers self management through RaceConnect cloud possible.	Yearly maintenance for updates and support. Support through built-in Feedback System. License migration 3 times per year. OEM users and dealers self management through RaceConnect cloud possible.

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