

Racing Guide 2016



AIM SRL
Via Cavalcanti, 8
20063 Cernusco S/N (Mi)
Italy
P. (+39) 02 - 9290571
F. (+39) 02 - 92118024

www.aim-sportline.com

Made in Italy





Racing Guide 2016

02 **MXL2** Dash Logger
08 **MXG** Dash Logger
14 **MXS** Dash Logger
18 **EVO5** Logger
22 **EVO4S** Logger
26 **Solo/SoloDL** GPS Lap Times

30 **SmartyCam HD Rev.2.1** Videocamera
36 **SmartyCam GP HD** Videocamera
38 **Formula SW2** Steering Wheel
40 **GPS08/GPS08R** Accessories
42 **Memory Module** Accessories
43 **Channel Expansion** Accessories

44 **ECU Bridge** Bridge
45 **RPM Bridge** Bridge
46 **TC Hub** Accessories
47 **External Gear Flash** Accessories
48 **MyChron5** Dash Logger



MXL2

The New Dash Logger for Motorsports



- An all new high contrast LCD with an integrated graphical portion
- A dual color backlight
- Six configurable RGB alarm LEDs
- A 10 RGB LED shift light array
- WiFi connectivity
- Three CAN connections
- Connections with industry leading 700+ ECUs
- A 3-axis accelerometer + gyroscope

- 8 analog inputs at a max 1000 Hz each
- 4 digital speed inputs
- Coil RPM input
- A lap signal input
- 2 digital outputs
- Realtime fully configurable math channels

All this is housed in a waterproof aluminum chassis with sealed side mounted aluminum buttons for quick easy interaction.

Sharp Liquid Crystal

The MXL2 display features a high contrast traditional LCD, with a black to white ratio nearly double its predecessor, fused with a graphical LCD offering great flexibility in information display and alerts.

The MXL2 now offers a dual colored backlight of high contrast white and red which can also be changed conditionally.

An ambient light sensor keeps the backlight at optimum brightness levels.



Integrated Shift Light Array

An integrated shift light is a hallmark of the MXL, but an even better 10 LED shift light array is found in the MXL2. Choose from a host of advanced multicolored RGB shift light patterns that can be customized to your liking, and for each unique gear when required.



Flexible Alarms

Six configurable RGB alarm LEDs. You choose the conditions, you choose the colors. Select a solid alarm - or flashing one - and the flashing frequency, choose to have an accompanying text message, and set the alarm priorities.



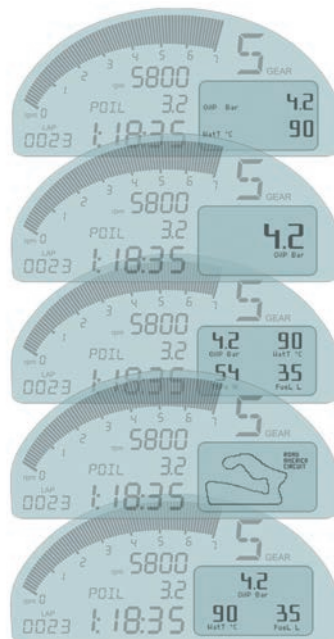
WiFi Connectivity

Configure, calibrate, and download your data wirelessly over a secure 802.11 WiFi connection.



Freely configurable pages

You can define up to eight different custom pages, choosing among a wide library of page styles, defining which data to be shown, their end of scale and measure units.



Motorsport Connectors

Lightweight aluminum mil-spec motorsport connectors are standard on the MXL2.



RaceStudio3, the almighty software

RaceStudio3 is the heart of your MXL2, as it will manage all your activities related to:

Configuration

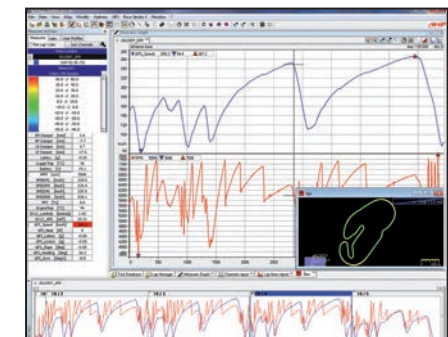
With Race Studio 3 you can create, modify, delete, import and export configurations with all channels, ECU drivers, Math channels, Display Pages, Digital outputs, Alarms, Shift Lights and all the expansions you need.

You will also be able to manage the map of all your racing tracks and compare two laps watching the video recorded by SmartyCam cameras.



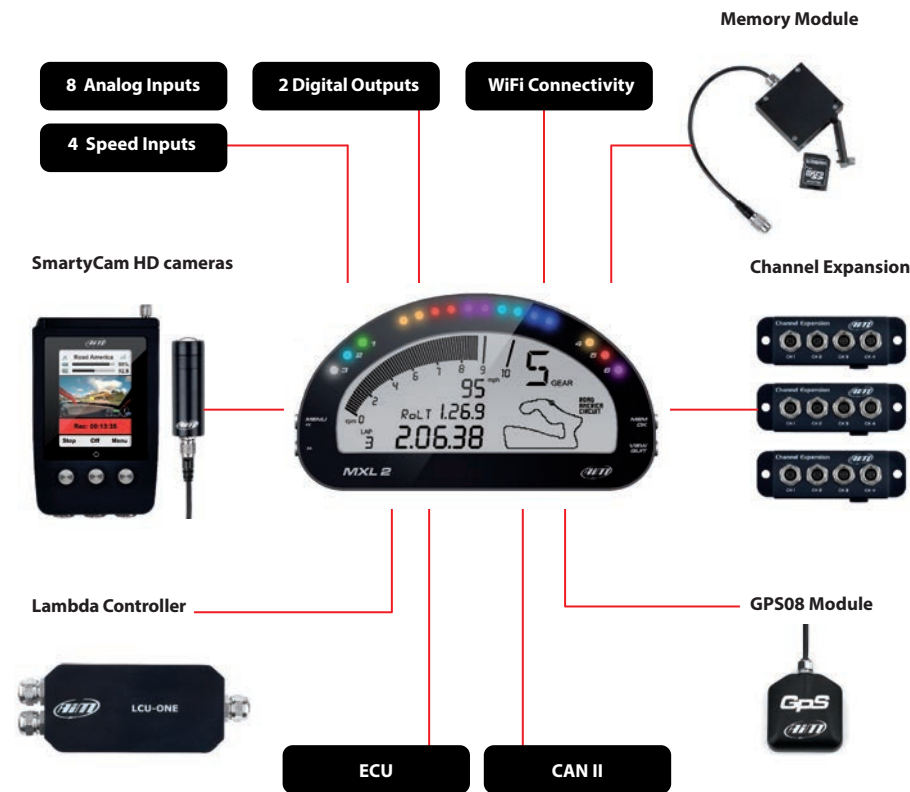
Analysis

With RaceStudio3 you can also analyse all data recorded by MXL2 and downloaded to your PC: graphs, histograms and tables will help you study your performance, providing an objective support to avoid mistakes and improve performances.



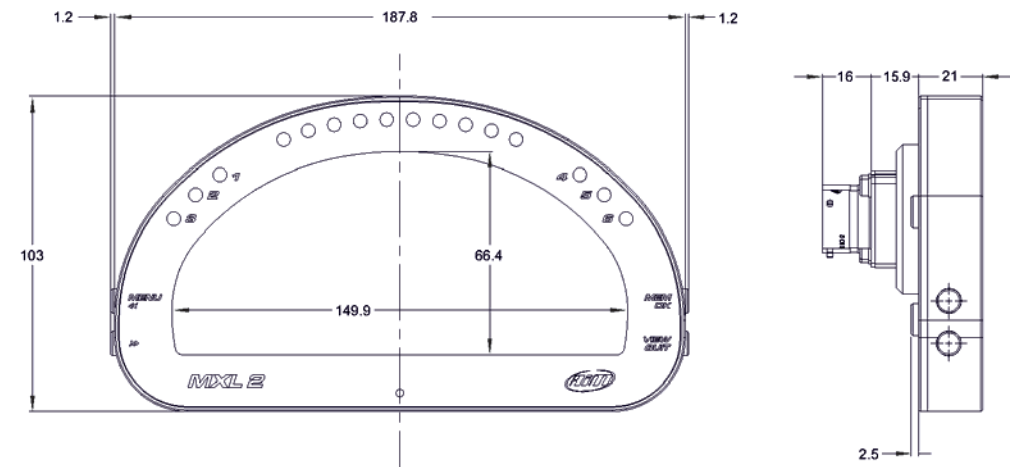
MXL2

A Modular Data Acquisition Display System for your Car



Add expansion modules via our built in CAN bus eg. GPS, external memory modules, channel expansions, lambda controllers.

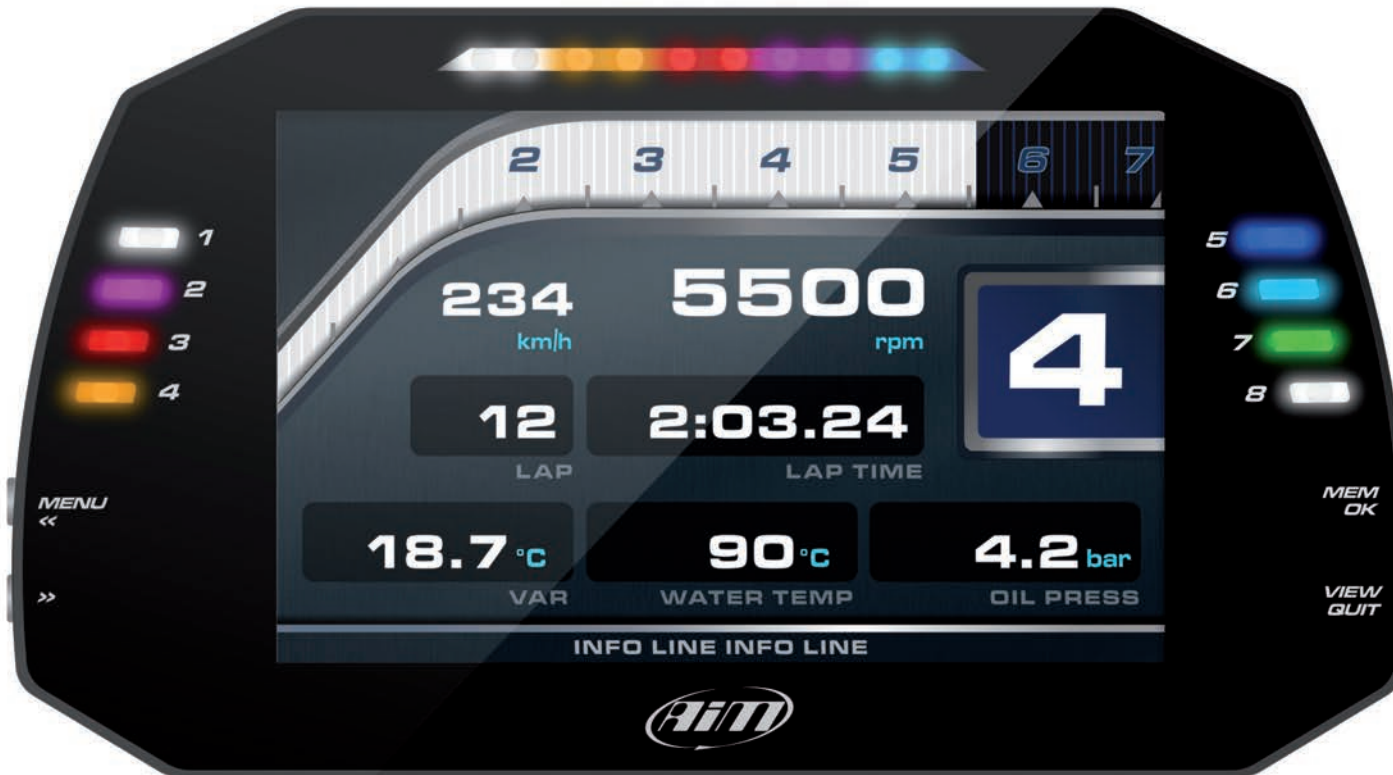
These are only some of the items that can be added to our MXL range for incrementing the performance and the data acquired.



- Display	LCD display + graphical portion
- CAN connections	3
- ECU connections	CAN, RS232 or OBDII
- External modules connection	Yes
- Expansion CAN connection	GPS, Channel expansion, Lambda Controller, SmartyCam HD
- Analog inputs	8
- Digital inputs	4 Speed inputs, 1 RPM input, lap signal
- Connectors	2 Autosport connectors
- Accelerometer + gyroscope	Internal Three-axial $\pm 5G$
- Internal memory	4 GB
- Alarm LEDs	6 RGB freely configurable
- Shift Lights	10 RGB LEDs freely configurable
- Backlight	Bicolor white or red
- Light sensor	Yes
- Body	Anodized Aluminum
- Pushbuttons	Metallic
- Dimensions	187,8x103x21mm
- Weight	530g
- Waterproof	IP65

MXG

The New Extra Wide Dash Logger for Motorsports



- Extra wide 7" TFT
High Contrast 1100 lumen TFT Display
- Fully user configurable
- Eight configurable RGB alarm LEDs
- A 10 RGB LED shift light array
- WiFi connectivity
- Three CAN connections

- Connections with industry leading
700+ ECUs
- A 3-axis accelerometer + gyroscope
- 8 analog inputs at a max 1000 Hz each
- 4 digital speed inputs
- Coil RPM input
- A lap signal input

- 2 digital outputs
- Realtime fully configurable math
channels

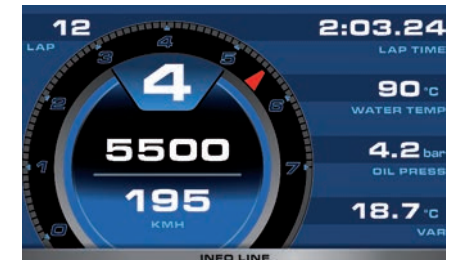
All this is housed in a waterproof aluminum chassis with sealed side mounted aluminum buttons for quick easy interaction.

Extra Wide, High Contrast 7" TFT Display

The MXG display features a high contrast 7" TFT Display, fully configurable by a dedicated software.

You can create as many pages as wished, showing in different fonts and dimensions every information received by MXG, as well as math channels.

Swapping between pages can be managed pushing one or two pushbuttons. An ambient light sensor keeps the backlight at optimum brightness levels.



Flexible Alarms

Eight configurable RGB alarm LEDs. You choose the conditions, you choose the colors. Select a solid alarm - or flashing one - and the flashing frequency, choose to have an accompanying text message, and set the alarm priorities.



Integrated Shift Light Array

Choose from a host of advanced multicoloured RGB shift light patterns that can be customized to your liking, and for each unique gear when required.



WiFi Connectivity

Configure, calibrate, and download your data wirelessly over a secure 802.11 WiFi connection.



Motorsport Connectors

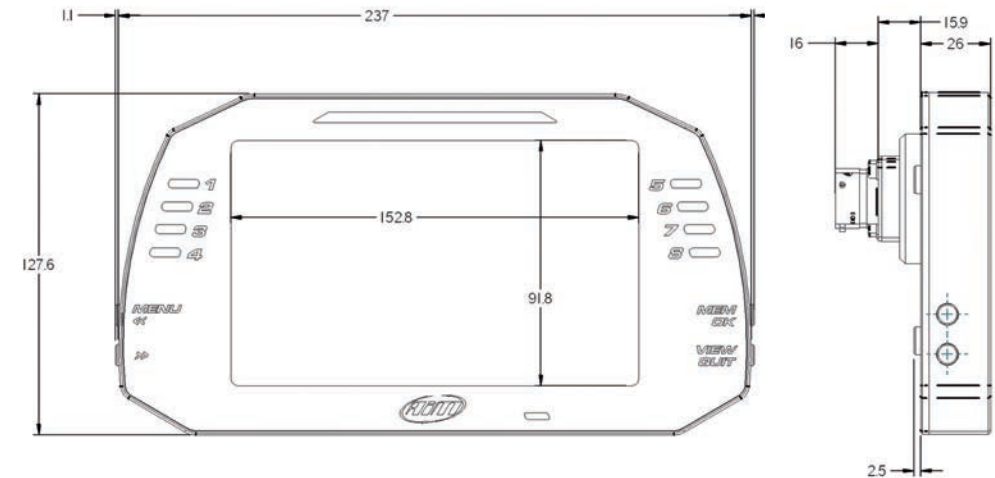
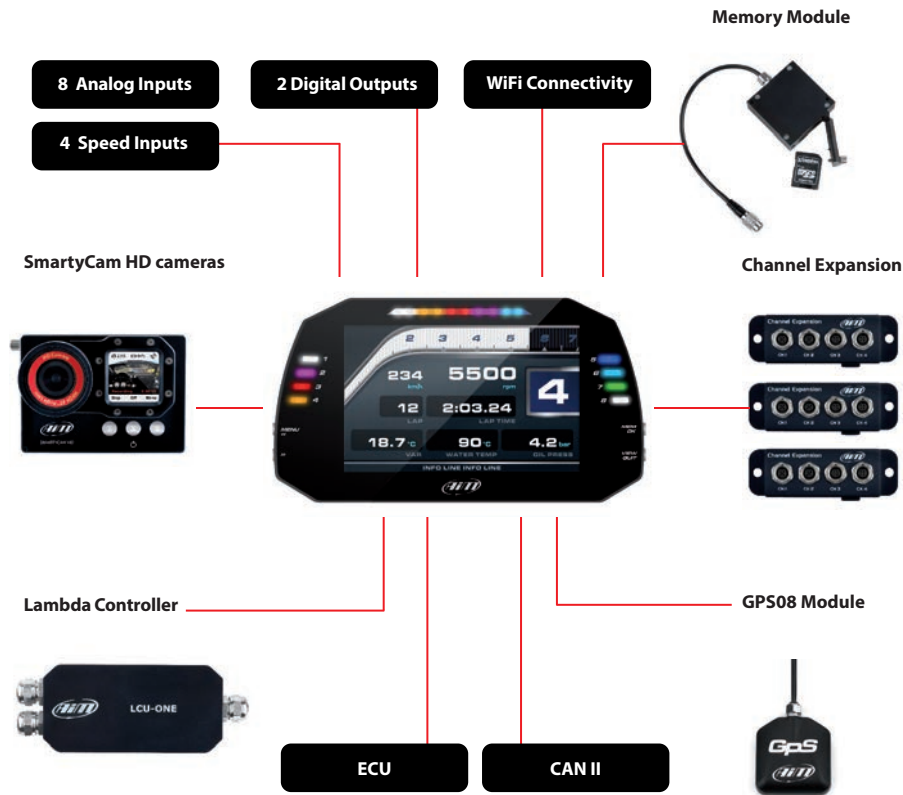
Lightweight aluminum mil-spec motorsport connectors are standard on the MXG.



MXG

A Modular Data Acquisition Display System for your car

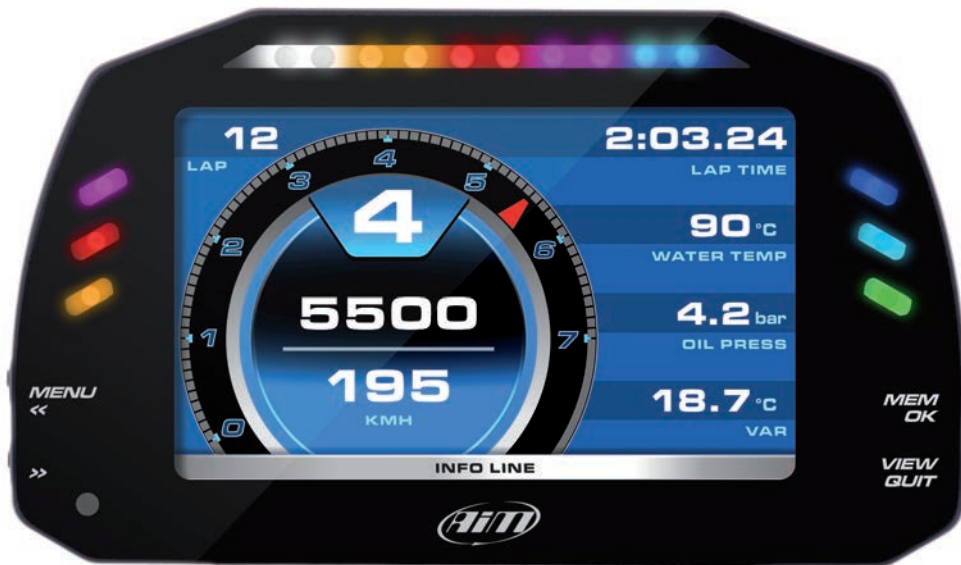
Add expansion modules via our built in CAN bus eg. GPS, external memory modules, channel expansions, lambda controllers. These are only some of the items that can be added to our MXG range for incrementing the performance and the data acquired.



- Display	7" TFT
- N. Pixel	800x480
- Contrast	1000:1
- Brightness	700cd/m2
- Light sensor	Yes
- Alarm LEDs	8 RGB freely configurable
- Shift Lights	10 RGB LEDs freely configurable
- CAN connections	3
- ECU connections	CAN, RS232 or K-line
- External modules connection	Yes
- Expansion CAN connection	GPS, Channel expansion, Lambda Controller, SmartyCam HD
- Analog inputs	8 fully configurable
- Digital inputs	4 Speed inputs, 1 RPM input, lap signal
- Connectors	2 Motorsport connectors
- Accelerometer + gyroscope	Internal Three-axial $\pm 5G$ +Gyro
- Internal memory	4 GB
- Body	Anodized Aluminum
- Pushbuttons	Metallic
- Dimensions	237x127,6x26mm
- Weight	950g
- Waterproof	IP65

MXS

The New Compact Dash Logger 5" TFT Display for Motorsports



- Compact 5" TFT High Contrast Display
- Fully user configurable
- 6 configurable RGB alarm LEDs
- A 10 RGB LED shift light array
- WiFi connectivity
- Three CAN connections
- Connections with industry leading 700+ ECUs
- A 3-axis accelerometer + gyroscope
- 8 analog inputs at a max 1000 Hz each

- 4 digital speed inputs
- Coil RPM input
- A lap signal input
- 2 digital outputs
- Realtime fully configurable math channels

All this is housed in a waterproof aluminum chassis with sealed side mounted aluminum buttons for quick easy interaction.

Compact, High Contrast 5" TFT Display

The MXS display features a high contrast 5" TFT Display, fully configurable by a dedicated software.

You can create as many pages as wished, showing in different fonts and dimensions every information received by MXS, as well as math channels.

Swapping between pages can be managed pushing one or two pushbuttons.

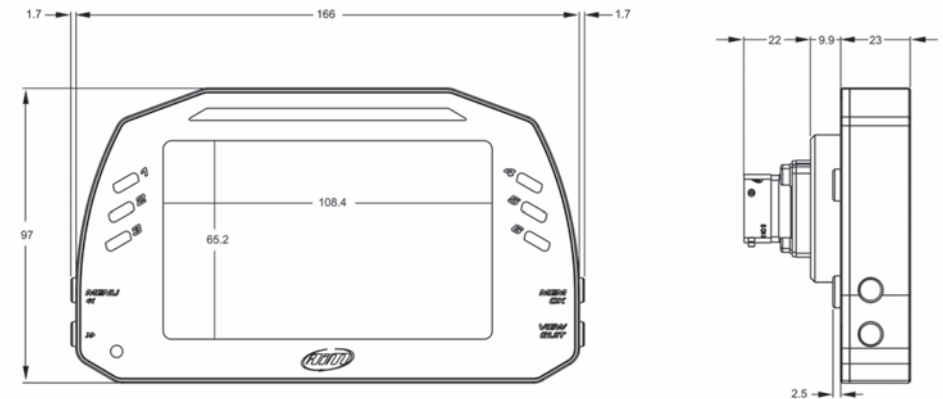
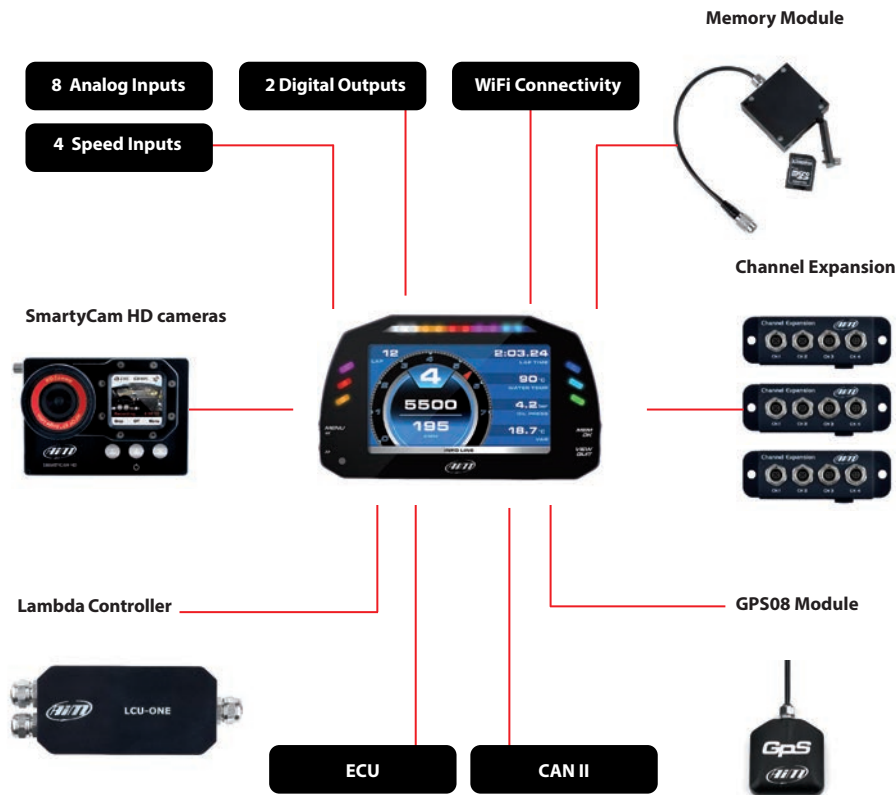
An ambient light sensor keeps the backlight at optimum brightness levels.



MXS

A Modular Data Acquisition Display System for your car

Add expansion modules via our built in CAN bus eg. GPS, external memory modules, channel expansions, lambda controllers. These are only some of the items that can be added to our MXS range for incrementing the performance and the data acquired.



- Display	5" TFT
- Resolution	800x480 pixels
- Contrast	600:1
- Brightness	700cd/m2
- Ambient Light sensor	Yes
- Alarm LEDs	6 RGB freely configurable
- Shift Lights	10 RGB LEDs freely configurable
- CAN connections	3
- ECU connections	CAN, RS232 or K- line
- External modules connection	Yes
- Expansion CAN connection	GPS, Channel expansion, Thermocouples expansions , Lambda Controller, SmartyCam HD
- Analog inputs	8 fully configurable
- Digital inputs	4 Speed inputs, 1 RPM input
- Connectors	2 Motorsport connectors
- Accelerometer + gyroscope	Internal Three-axial $\pm 5G$ +Gyro
- Internal memory	4 GB
- Body	Anodized Aluminum
- Pushbuttons	Metallic
- Dimensions	169,4x97x23mm
- Weight	670g
- Waterproof	IP65

NEW

EVO5

The fifth evolution of our datalogger



AiM introduces the evolution of the datalogger that, all over the years, has become a standard de facto acquisition system in a huge amount of championships.

A compact aluminum body, with two multichannels Motorsports connectors and internal SD closed by a waterproof door. It is so small that you can install it everywhere, and the internal SD card guarantees an unlimited capability to record all your possible data.

ECU connection to over 700 different ECUs

The ECU connection features all the possible hardware compatibilities (CAN,

RS232, OBDII) in order to guarantee the possibility to receive a huge amount of data from all the possible available ECUs, both in motorsports and in stock installations. Of course, the unit is completely configurable, in order to offer the maximum flexibility.

An extra CAN connection

Many times you wish to get data not only from your ECU but also from other electronic devices you have in your car.

The extra CAN is intended to offer this possibility.

2 motorsport connectors

Lightweight aluminum mil-spec motorsport connectors are standard on the MXG.

WiFi connectivity

Configure, calibrate and download your data over a secure 802.11 WiFi connection, even if your car is at 100 meters far from you.

Internal SD for data recording

No way to have a faster data downloading: you remove the SD and... it is done! Of course, also USB connection is available, just in case the logger is hidden somewhere.

Internal three-axial accelerometer and gyro sensor

A built-in inertial platform lets you have the most powerful system for understanding oversteering, understeering, banking, etc.

Expansions

EVO5 is of course freely expandable: you can add GPS05 Module, analog input channel expansions, Lambda controllers and our new powerful SmartyCam HD and GP HD.



Inputs/outputs

8 freely configurable analog inputs (0-5 V, 0-500 mv, thermocouples, thermoresistances) at frequencies from 0.1 to 5000 Hz), 2 speed signal inputs, 1 rpm input and 2 digital outputs let you have all the data you really need for fully understanding the behaviour of your car in every possible condition.

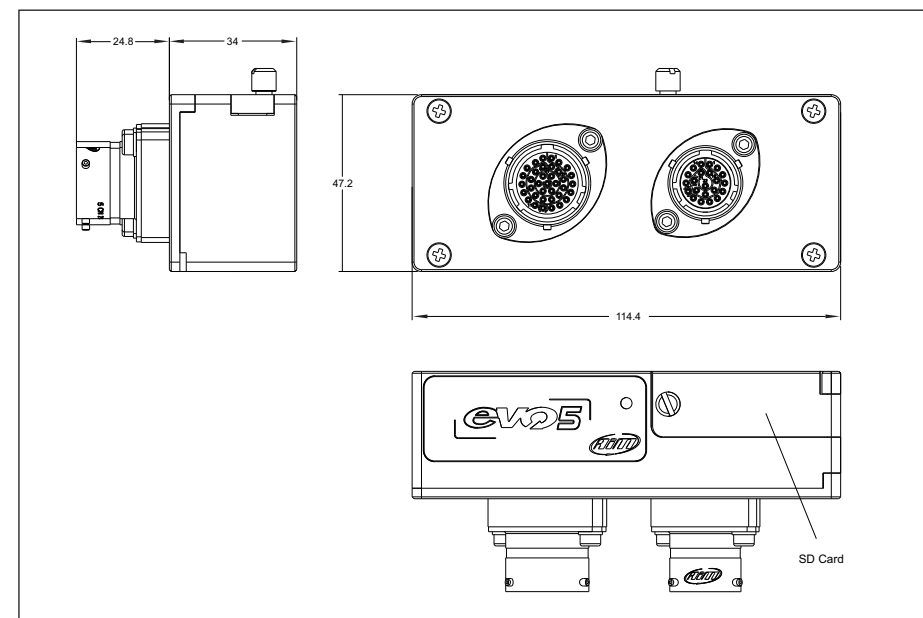
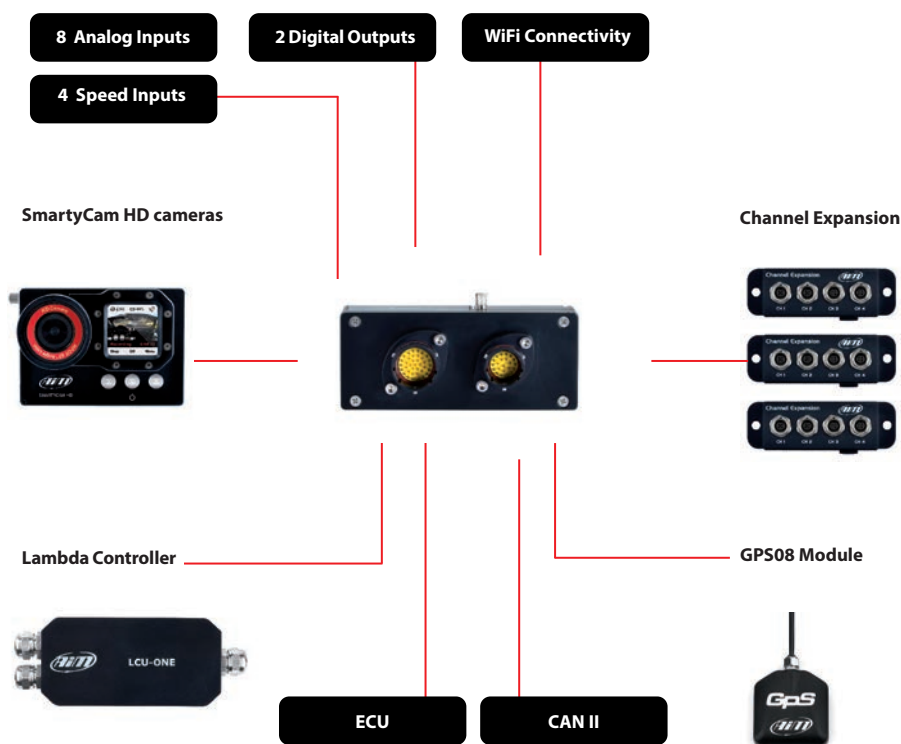


EVO5

A Modular Data Acquisition System for your car

Add expansion modules via our built in CAN bus eg. GPS, channel expansions, lambda controllers.

These are only some of the items that can be added to our EVO5 range for incrementing the performance and the data acquired.



- ECU connection	CAN, RS232, K-Line
- Second CAN	YES
- External modules connection	YES: GPS module, Channel expansion, Lambda controller, SmartyCam HD
- Analog inputs	8 fully configurable: 0-5V, 0-12V, K thermocouples. Max freq 1 KHz each
- Digital inputs	Coil RPM and 4 speed inputs
- Inertial platform	Internal 3 axis +-5G accelerometer + 3 axis gyro
- WiFi connection	YES
- Internal memory	4 gigabytes
- SD card	Internal: up to 128 gigabytes
- Digital outputs	2, up to 1 Amp each
- Body	Anodized aluminum
- Dimension	114,4X47,2X58,8mm
- Weight	300g
- Waterproof	IP65



EVO4S

Powerful and flexible datalogger



EVO4s is the evolution of the well known EVO4. It maintains the same connection logic, one connector per channel, but with a completely redesigned internal electronic

board, fully compatible with the last generation of AiM dash/logger and ready for the future developments of the software Race Studio 3.

ECU connection to over 700 different ECUs

The ECU connection features all the possible hardware compatibilities (CAN, RS232, OBDII) in order to guarantee the possibility to receive a huge amount of data from all the possible available ECUs, both in motorsports and in stock installations. Of course, the unit is completely configurable, in order to offer the maximum flexibility.

One single connector per channel

In order to avoid big and expensive harnesses, and improve the flexibility, EVO4S features one connector per every channel.

Internal three-axial accelerometer and gyro sensor

A built-in inertial platform lets you have the most powerful system for understanding oversteering, understeering, banking, etc.

Expansions

EVO5 is of course freely expandable: you can add GPS05 Module, analog input channel expansions, Lambda controllers and our new powerful SmartyCam HD and GP HD.

Inputs/outputs

8 freely configurable analog inputs (0-5 V, 0-500 mv, thermocouples, thermoresistances) at frequencies from 0.1 to 5000 Hz), 2 speed signal inputs, 1 rpm input and 2 digital outputs let you have all the data you really need for fully understanding the behaviour of your car in every possible condition.

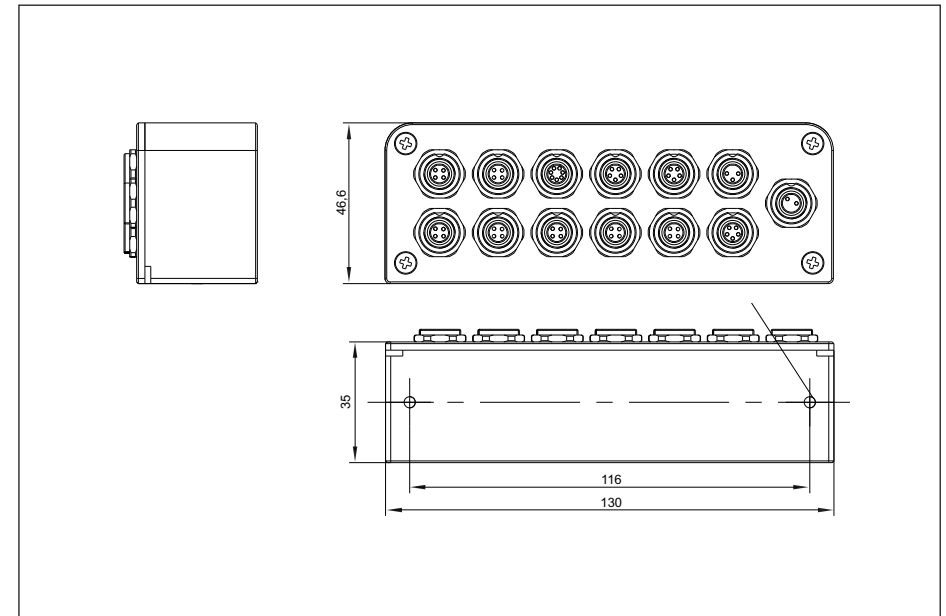
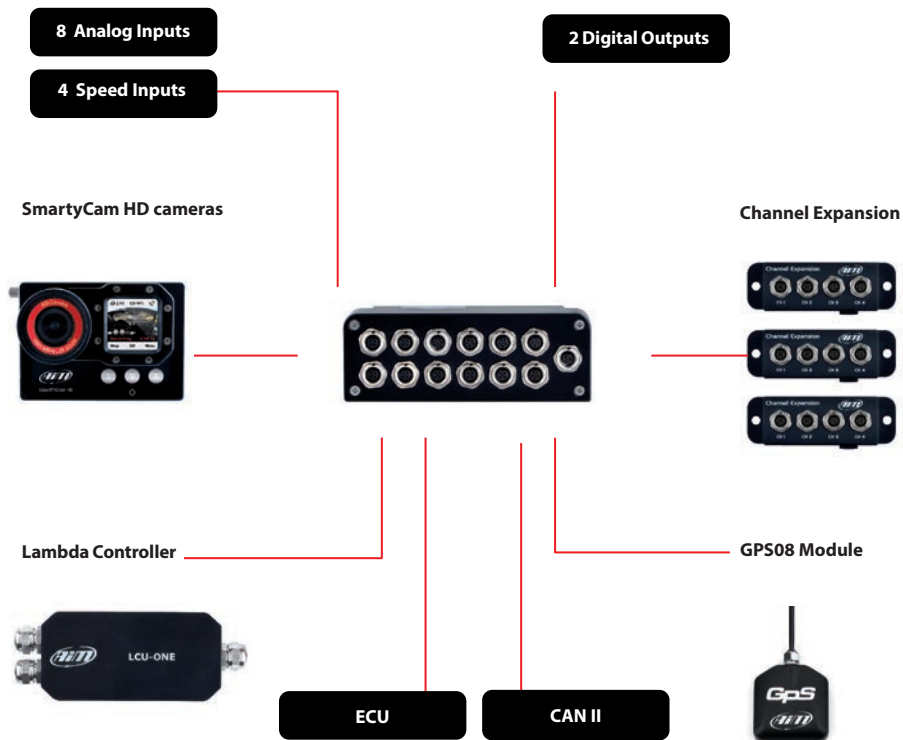


EVO4S

A Modular Data Acquisition System for your car

Add expansion modules via our built in CAN bus eg. GPS, channel expansions, lambda controllers.

These are only some of the items that can be added to our EVO4s range for incrementing the performance and the data acquired.



- ECU connection	CAN, RS232, K-Line
- External modules connection	YES: GPS module, Channel expansion, Lambda controller, SmartyCam HD
- Analog inputs	5 fully configurable: 0-5V, 0-12V, K thermocouples. Max freq 1 KHz each
- Digital inputs	Coil RPM and 2 speed inputs
- Inertial platform	Internal 3 axis +-5G accelerometer + 3 axis gyro
- WiFi connection	YES
- Internal memory	4 gigabytes
- Digital outputs	1, up to 1 Amp each
- Body	Anodized aluminum
- Dimension	130X46,6X35mm
- Weight	330g
- Waterproof	IP65

Solo/SoloDL

The GPS Lap Timer for Motorsports

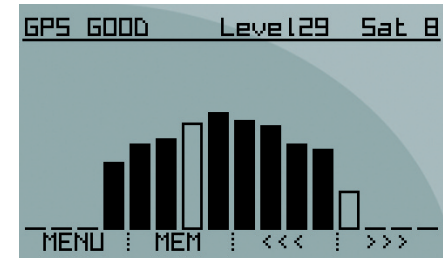


- Automatic Lap time calculation based upon GPS technology
- Wide internal Track Database with more than 200 tracks
- Automatic track recognition at power on
- Freely configurable display

- Freely selectable race Mode: Speed, Performance, Point to Point, Autocross
- Internal 32 megabytes datalogger
- SoloDL: connectable to every ECU for getting and recording all ECU data

Find your track thanks GPS

Thanks to its integrated track database Solo automatically recognizes which track you are racing and determines the starting line position in order to calculate your lap times.



Select your race mode

With a simple keyboard configuration Solo can manage four different forms of motorsports:

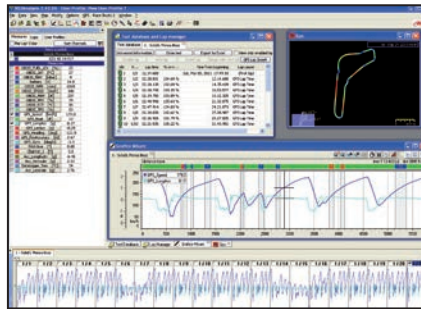
- Speed races in a closed circuit
- Point-to-point races
- Regularity
- Performance tests

In all of these different situations Solo gives the proper information during the test and powerful data review immediately after each session.



Data recall on screen or on your PC

At the end of your test, you can review all the key information on Solo or download them in order to study your performance on your PC.



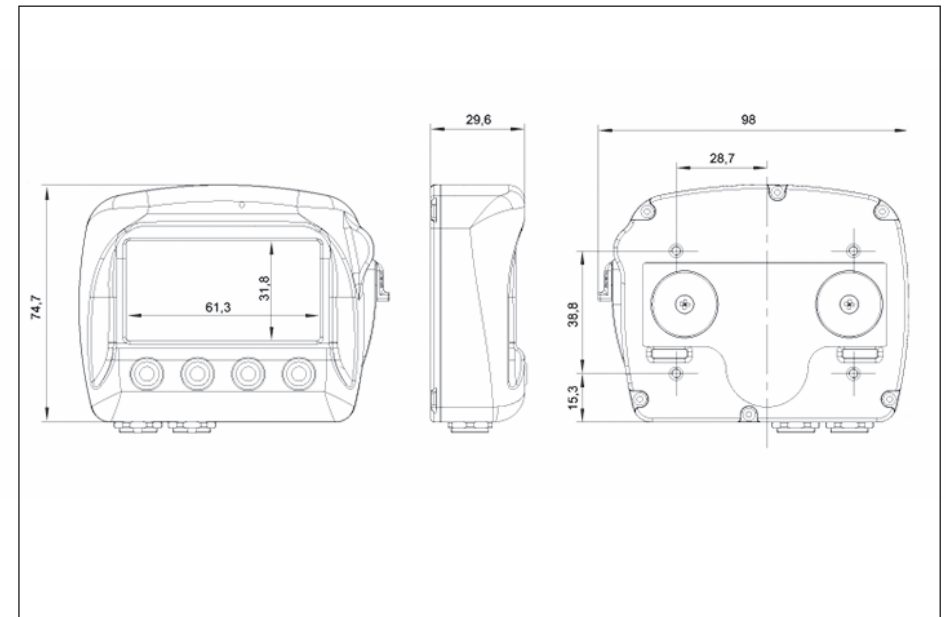
SoloDL The GPS Lap Timer with ECU connection

SoloDL offers all the functions of Solo, plus the ability to connect to your car's Engine Control Unit (ECU) and to the optional camera, SmartyCam HD: a powerful data acquisition system recording important data - like RPM, throttle position and much more - linked to your position on track.

All this without additional sensors thanks to the ECU connection.



ECU



- Display	Graphical
- Display resolution	128x64 pixels
- Display pages	Up to 8 freely configurable
- Backlight	White
- Integrated Track database	Yes
- Accelerometer	Tri-axial $\pm 6G$
- Internal battery	Yes
- Battery type	Rechargeable lithium
- External power	12 V
- Memory	16 Mb
- GPS	10 Hz
- ECU connections (SoloDL)	CAN, K Line, RS232
- Dimensions	98x77,7x29,6 mm
- Weight	240g, battery included
- Waterproof	IP65

SmartyCam HD Rev.2.1

The Videocamera Designed for Motorsports



67°- 84°-120° Lens



Improved waterproof
internal microphone

SmartyCam HD Rev.2.1 has been designed for motorsports with a single purpose: providing great videos that include all the technical information that will help you improve your performance.

All this in the most robust and reliable system ever. In its new version, the electronics/mechanics have been further improved, and SmartyCam HD is now even easier to manage.

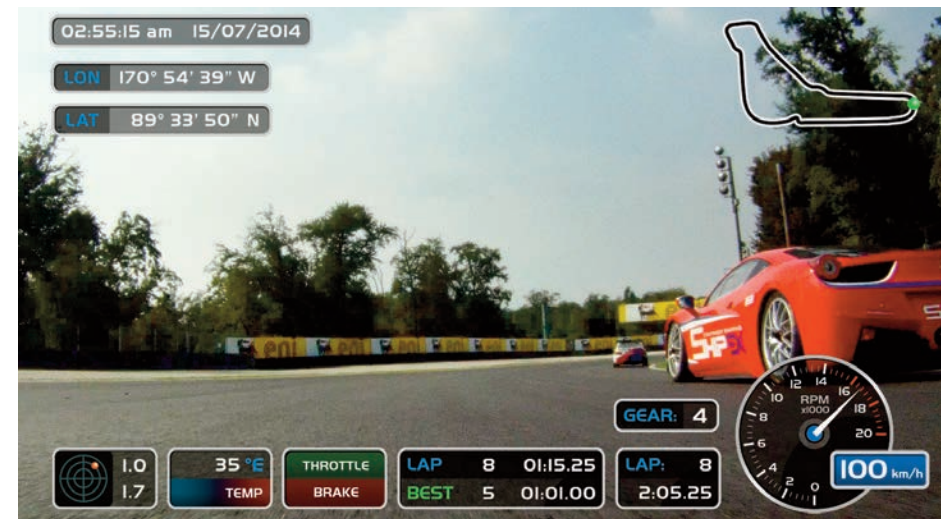
Competitive Advantages

Real time
data overlayed
on videos

Automatic
Start&Stop

No Wave effect
with Global Shutter
CMOS Sensor

Proprietary
lenses designed for
motorsport



Front mount
color TFT display

High Quality
small-size video
files

Extreme
on track working
conditions

Compact
handy and easy
to install

Real Time Data Overlayed on Videos

SmartyCam HD Rev.2,1 overlays all the data you need from different sources.

■ From GPS:
track map and vehicle position, as well as speed, lap and split times.

■ From AiM loggers connected to your ECU: RPM, throttle, engaged gear, acceleration, temperatures, pressures and - in presence of additional sensors - also their values.

All these info will be overlayed on videos in each single point of the track.

Racestudio3

Your software for video configuration and analysis

SmartyCam HD uses the newest RaceStudio3, the powerful software which allows to configure all details of your videos and to get plenty of fun and information out of them.

■ Configuration

You can configure your overlays in a virtually infinite variety of modes: add your logo and the track map, and choose your graphic objects from a list of pre-determined sets with same layout or even single objects from different sets. Your videos will be truly "yours" in all details, from the data to their graphic layouts.

■ Video Analysis

The video of a whole session, once downloaded on your PC, can now be split - with a simple click - in individual videos of each lap: so that you can simultaneously watch two of them and check where you were faster or slower. The same operation can be performed with any SmartyCam HD video recorded on the same track: you will be able to compare your best lap with your friends personal best!



No "Wave Effect" with Global Shutter CMOS Sensor

Engine rumble causes vibrations, which are not a good thing for video recording.

Never again will you experience that seasick "wave effect" you get when watching videos recorded by a generic camera, when the car rolls at 7000 RPM.

SmartyCam HD has been designed for that environment and for those vibrations.

"Wave effect" is just a memory.



Automatic Start & Stop

You are on the starting grid, ready to sprint, your adrenaline reaching the climax: the last thing you can worry about is... switching on the camera.

You have other things to worry about. SmartyCam HD is aware of that. That is why it switches on/off automatically and starts/stops recording the same way.



Designed to withstand extreme on-track working conditions

Frail things have a bad time on track.

An on-board camera designed for motorsports must guarantee great resistance against the extreme working conditions typical of racing and against the most adverse weather, such as: strong and prolonged vibrations, storms, continuous rain, and extremely high and low temperatures.

That is why SmartyCam HD is made in machinery molded aluminum, just like many competition car parts.



Hight quality with small size video files

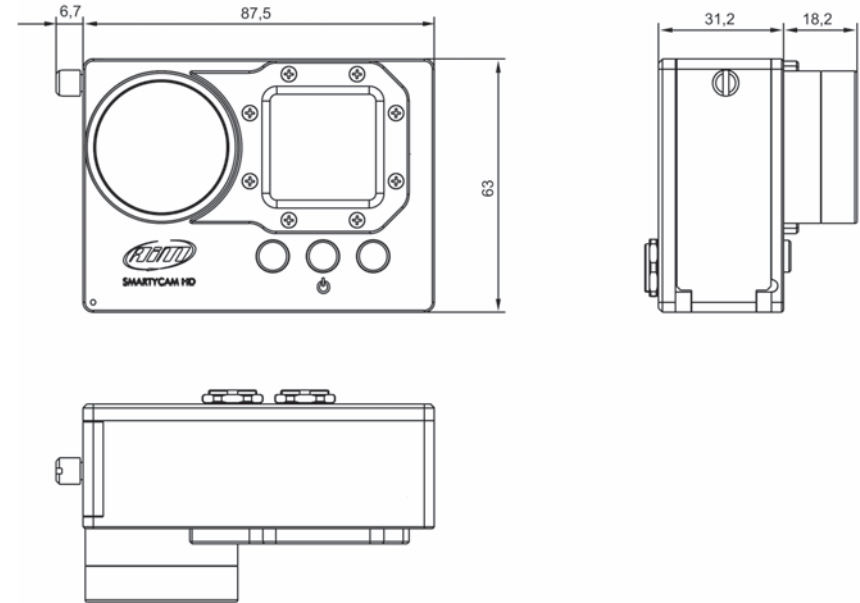


Generic HD cameras are focused on the highest pixel number. The result is that their video files are far too large, taking too much memory.

SmartyCam HD videos have the same quality as other HD cameras but their files are smaller because the H264 compression system parameters have been optimized to a perfect balance between video quality and file size.

You can choose among three video file quality levels: one-hour recording takes 4GB (high quality), 2GB (normal) or 1,5GB (low).

Files are stored on SD cards: with current SD cards reaching 128GB capacity, you can record more than 30 hours of high-quality videos without changing the card.



- Video format	H.264 1280x720 pixel @ 30fps 1,5-4Gb/hour
- Field of view	67° - 84° - 120°
- Lens	Telecentric with 6 elements
- Supported SD card	Up to 128 Gb
- Display	Frontal 128x128 pixel
- Accelerometer	Three-axial ± 5G
- Internal battery	Rechargeable Lithium battery 1.040 mAh
- Battery charge	700 mAh 12V
- Internal battery duration	70 - 80 min. of recording
- External power	9 - 15 Volt
- Auto Power On/Off	Yes, if connected to an AiM logger
- Auto Power Off	Yes
- Auto Start/Stop Recording	Yes
- Usage temperature	-10°C / + 60°C
- Body	Anodized Aluminum

- Dimensions	87,5x63x49,1mm
- Weight	250g battery included
- Waterproof	IP67

SmartyCam GP HD

The Videocamera Bullet Version



The professional on-board camera with data overlay with remote bullet-cam.

If you have a formula car, or a bike, or in every situation in which SmartyCam is not so comfortable to install, here is the version with remotet bullet-cam, SmartyCam GP HD.



Same video quality, same connections to Master Loggers, same features but a completely different look. It is in black anodized aluminum, billet machined with a light, robust, and really small Bullet-Camera.



SmartyCam GP HD is very flexible: you can add optional modules to fit it perfectly to your needs, like the ECU Bridge to connect it directly to the Engine Control Unit, the GPS, or the external microphone/jack.

- Video format	H.264 -1280 x 720 pixel @ 30fps 1,5-4Gb/hour
- Field of view	67° - 84° - 120°
- Lens	Telecentric with 6 elements
- Supported SD card	Up to 128 Gb
- Display	2,4" 240x320 pixel
- Accelerometer	Three-axial ± 5G
- Internal battery	Rechargeable Lithium battery 1.040 mAh
- Battery charge	700 mAh 12V
- Internal battery duration	60 - 70 min. of recording
- External power	9 -15 Volt
- Auto Power On/Off	Yes, if connected to an AiM logger
- Auto Power Off	Yes
- Auto Start/Stop Recording	Yes
- Usage temperature	-10°C / + 60°C
- Body	Anodized Aluminum
- Dimensions	Main box 102.5x65.2x26,5mm Bullet camera diam 24mm x 73,5mm
- Bullet cable	0,5 - 1,0 - 1,5 - 2,0 mt
- Weight	Main box 260g - Bullet camera 55g
- Waterproof	IP67

Formula Steering Wheel 2 For Formula and Sport cars



Formula Steering Wheel, for dimensions (270mm) and structure, has been specifically designed for Formula and Sport cars. It offers the opportunity to visualize in real time all key parameters and shows a typical "racing" look. Formula Steering Wheel is robust, for its

anodized aluminum chassis, comfortable and ergonomic: maximum grip is guaranteed by its shape and its finishing with hand-sewn shammy leather.

Reliable: with its backlit display and waterproof structure it can be used in all conditions of light and weather.

Its digital display shows data sampled by EVO4 logger, coming from Engine Control Unit and sensors.

With Formula Steering Wheel you keep constantly monitored:

- Lap/split times and lap number
- Speed or RPM graphical view
- 8 channels (2 per page) selected configuring EVO4 with Race Studio2 software.

Formula Steering Wheel also displays:

- 4 alarm leds, associated to the desired channels
- Configurable shift lights

It also features switch buttons to remote 4 functions among the options available in your car, like speed limiter, traction control, neutral, etc. You can also visualize GPS signal strength and - if the circuit is not included in the tracklist - to fix finish-line and split points.



- Display	Graphical
- Alarms LEDs	4 RGB freely configurable
- Shift Lights	5 RGB freely configurable
- Display pages	Up to 8 freely configurable
- BackLight	White
- Display Pushbuttons	4
- User Pushbuttons	4
- Chassis	Anodized Aluminum
- Finishing	Hand-sewn shammy leather
- Paddleshift SX-DX	Optional
- Dimensions	270x184x48 mm
- Weight	1.400g
- Waterproof	IP65



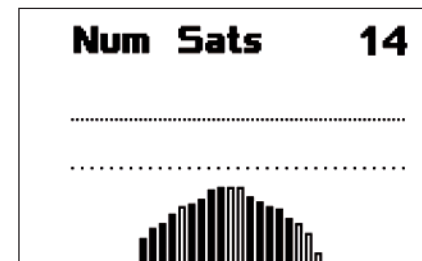
GPS08/GPS08R
GPS Module



GPS08 Module and AiM logger, perfect synergy

GPS08 module connected to an AiM logger allows you to monitor your position and speed at any point of the track.

Now it is possible to start running and immediately get lap times without any previous operation, leaving old systems out: neither infrared or magnetic beacons nor track inspections before tests.



A real breakthrough in data analysis

GPS08 the new module receives both GPS and GLONASS satellites signals and offers many improvements:

- Higher accuracy, particularly in the corners
- Faster response at power on
- Higher reliability in adverse situations

Lightweight and waterproof, GPS08 module is connectable to AiM logger via CAN connection.

The software for managing the tracks database is now fully integrated in Race Studio 3. Thanks to GPS08 Module you'll get: Position, Speed, Cornering in-line and lateral G, automatic lap times.



You can review your driving performance through real images, exporting all these data into Google Earth®.

GPS08R, to be installed on the roof of the car.

Memory Module

Manages SD Cards up to 128 Gb



Forget the slow data downloading thanks to this new small add-on: Memory Module manages an SD memory in order to record all the data of your test in a file that can be easily and quickly moved to your PC for further analysis. The available memory is much more you will ever need: up to 128 Gb. Memory Module can be connected through CAN bus to all AiM Loggers (EVO4, EVO5, MXL, MXL2, MXG, MXS).

Dimensions: 55,5x78,3x18mm
Weight: 100 g
Waterproof: IP65

Channel Expansion

CAN Device

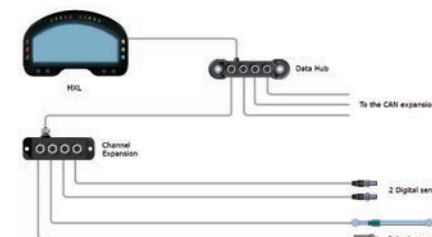


Enhance your logger performance

This compact CAN device provides virtually endless data acquisition system expansion options. Channel Expansion hub adds up to four freely configurable analog (or two digital and two analog) channels without occupying or modifying any of the existing system channels.

By using advanced CAN technology, wiring is simplified from four cables into just a single connection, thereby reducing possible and unnecessary points of failure. It is also possible - via Data Hub - to connect to the Master as many Channel Expansion as needed.

Its aluminium chassis makes it resistant and waterproof.



Dimensions: 105x33x28,4mm
Weight: 170 g
Waterproof: IP65

ECU Bridge / RPM Bridge

The easiest way to show engine data on visors and SmartyCam videos



Engine Data Bridges

ECU Bridge and RPM Bridge: these two systems are needed whenever engine data are to be visualized on a display or on a SmartyCam HD video, if no recording is required.

They are compatible with MXL Dash, G-Dash and Formula/GT Steering Wheels, and of course with the SmartyCam HD and SmartyCam GP HD.

ECU Bridge is to be used in case the Engine Control Unit transmits data in the following hardware protocols: OBDII, CAN or RS232.

AiM has developed hundreds of different protocols, to make compatibility with virtually all ECUs possible, either stock and after market ECUs.

Dimensions: 123x30x23mm

Weight: 150 g

Waterproof: IP65

ECU Bridge has to be properly configured with Race Studio 2 software to communicate with the different visors/cameras on one side and ECUs on the other side.

ECU Bridge is available in two variants: With OBDII connector, for immediate plug&play connection to the OBDII port of cars with stock ECUs.

With CAN/RS232 connection, for direct installation on aftermarket ECUs. RPM Bridge is to be used whenever the car has got no ECU (i.e. classic cars). In this case RPM data can be obtained with connection to the coil or reading a square wave signal generated by the ignition system.

Dimensions: 123x30x23mm

Weight: 150 g

Waterproof: IP65



TC Hub

Thermocouples Multiplier



Keep all temperatures
of your engine under control

TC Hub allows you to connect via CAN bus four additional thermocouples to AiM loggers: you can of course use more TC Hubs to have all desired temperature sensors at your disposal.

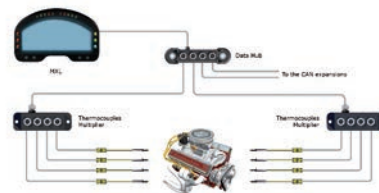
With TC Hub you can keep regularly under control exhaust gas temperature of each cylinder in addition to water, oil and head temperatures.

Moreover, thanks to TC Hub, wires overall is reduced to the minimum. Its aluminum chassis makes it resistant and waterproof.

Dimensions: 105x33x28,4mm

Weight: 170 g

Waterproof: IP65



External Gear Flash



10 completely configurable RGB LEDs help you in keeping your engine under control.

You can easily set the LED color, the RPM value at which turn it ON, also in dependence upon the gear number.

CAN compatible with the following AiM systems:

- MXL2
- MXS
- MXG
- EVO5
- EVO4S

Dimensions: 116x27x17

Weight: 70g

Waterproof: IP65

New MyChron5



MyChron5

An integrated High Technology Dash Logger for kart drivers



- Integrated GPS
- Wide display with configurable multicolor backlight
- Graphical display resolution
- Completely configurable pages
- Calculated Gear Number
- 2 freely configurable RGB Alarm LEDs
- 5 freely configurable RGB ShiftLight LEDs
- Nylon body
- Metallic pushbuttons
- Rechargeable Lithium Iones Battery
- WiFi connection
- Compatible with MyChron4 add-ons
- Waterproof IP65

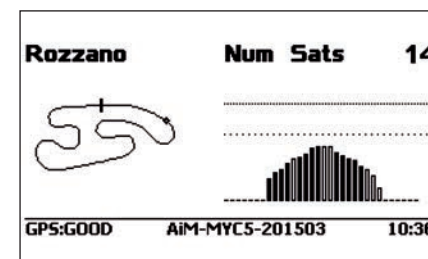
Integrated GPS

Our technicians have worked for many years for making GPS technology useful and reliable in the motorsport environment.

We have reached such a good level that we decided to integrate GPS module inside MyChron5.

The system takes advantage from an internal wide track dbase, in order to automatically understand in which track you are, where and how many are the magnetic strips: without any further sensor or configuration you will automatically get lap times, predictive lap times and split times.

GPS data, acquired ten times per second, are of course recorded with other signals in the internal datalogger, in order to offer the possibility of a deep analysis of your performance.



A robust housing with wider display

The new Nylon chassis with metallic pushbuttons guarantees even more resistance to shocks and water.

The anti-scratch non-reflecting polycarbonate screen and the wider display ensure great readability.



Completely configurable pages

Define as many pages as you wish, showing graphic bars or just digits, via software or directly on your system.

In case your kart is a shift kart, you can decide to show the gear number, automatically calculated in a few hundredths of meters while you are driving.



Ambient Light Sensor

MyChron5 provides optimum viewing in diverse lighting conditions: the display brightness is automatically adjusted according to the environment light.



Wide display with configurable multicolour backlight

More data require more space for looking at them. MyChron5 features a wide high resolution display with fully configurable backlight.



Rechargeable Lithium Battery

No problems with traditional batteries anymore: MyChron5 is powered by a dedicated rechargeable - and removable - lithium battery. It is long-lasting (about 10 hours duration) and easy to recharge, placed on its magnetic basement connected to the power adapter. The usual external power connection is also available.



ShiftLight and Alarm LEDs

Five RGB shift lights can be configured for each gear, choosing LED color and RPM threshold values which will turn them on/off. They also allow RPM monitoring in a glance.

Even alarms are managed in a very flexible way: you choose the situation that generates the alarm, the LED behavior (blinking frequency and color) when the alarm appears and the conditions for its switch-off.



WiFi connection

Download your data to your PC, look at the OnLine measures, upgrade your firmware, transmit parameters using the well known DataKey or through fast WiFi connection.



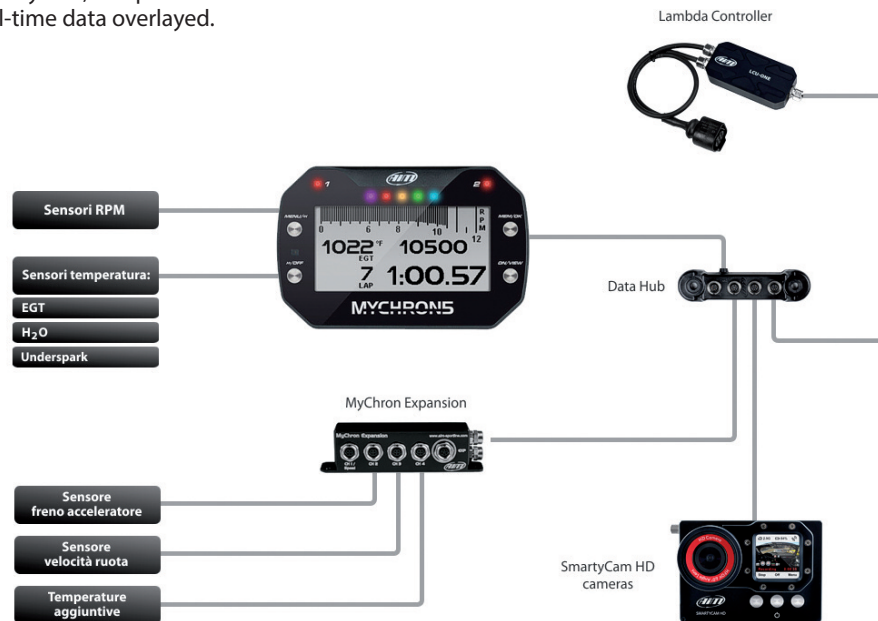
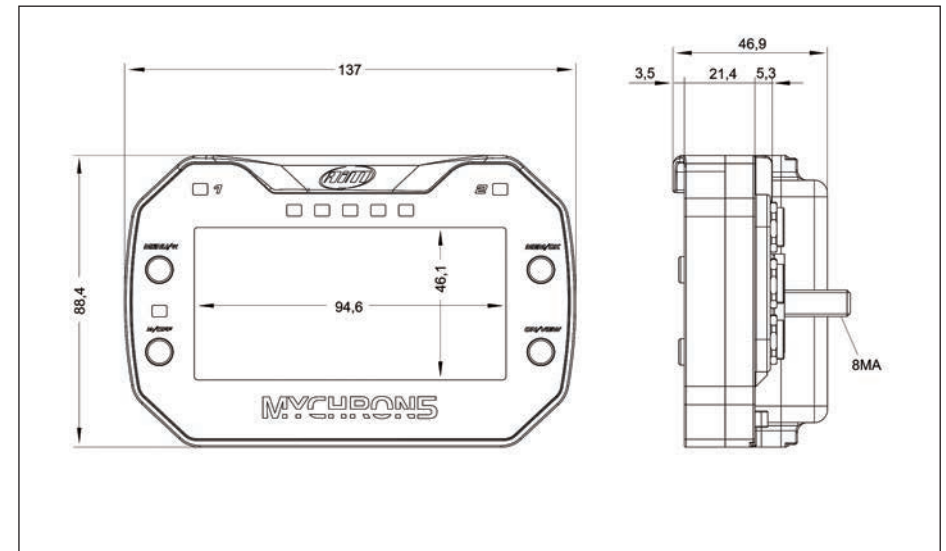
MyChron5 2T

Like its predecessor, MyChron5 2T gives the chance to control two engine temperatures instead of one, coming from thermocouples or thermoresistors.

Compatible with MyChron4 add-ons

Adding new modules you will get all the additional information you need:
LCU-One, perfectly tuning the carburetion of your engine.
Channel Expansion, the channel multiplier that permits to check when you brake and accelerate, as well as Power Valve behaviour

Smartycam, for professional videos with real-time data overlayed.



- GPS integrated	10 Hz GPS + Glonass Costellations
- RPM	Up to 25.000 RPM
- Temperature	Thermocouple/ Thermoresistance
- Lap time	GPS based (included)
	Optical or Magnetic receiver (optional)
- Inertial Platform	For steering wheel position (included)
- WiFi connection to PC	Yes
- Memory	4 Gb - more than 3.000 hours of continuous logging
- Display resolution	268x128 pxl
- Backlight	Multicolor, freely configurable
- Alarm	2 freely configurable RGB LEDs
- ShiftLights	5 freely configurable RGB LEDs
- Battery	Rechargeable 3 Amp Lithium Ion
- Battery duration	Up to 10 hours
- Battery charger	Included
- Body	Nylon fiberglass
- Dimensions	137x88,4x29mm
- Weight	390g battery included
- Analysis software	Freely downloadable RaceStudio

AiM SPORTS LLC

31889 Corydon Street, Suite130
Lake Elsinore, CA 92530
U.S.A.

AiM SPORTS LLC SE

1636 9th Street Southeast, Unit B
Roanoke, VA 24013
U.S.A.

Toll Free 800.718.9090

www.aimsports.com



AiM SRL

Via Cavalcanti, 8
20063 Cernusco S/N (Mi)
Italy
P. (+39) 02 - 9290571
F. (+39) 02 - 92118024

www.aim-sportline.com