

## User Manual

### SmartyCam 3 Series Release 1.14

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## 1 – SmartyCam 3 preliminary notes

This manual is intended to explain how to configure and use all versions of the new SmartyCam 3 action camera. The models are deeply different; and are intended for completely different applications; but share the same philosophy, configuration logic, operating system and internal components. In the following pages the explanations will be intended for all models, when not otherwise specified.



**SmartyCam 3 Sport**



**SmartyCam 3 Corsa**



**SmartyCam 3 Dual**



**SmartyCam 3 GP**



**SmartyCam3 GP Pro**



## 2 – SmartyCam 3 topics

### Wide Global Shutter CMOS sensor

The best way to avoid wave effects when vibrations are strong.



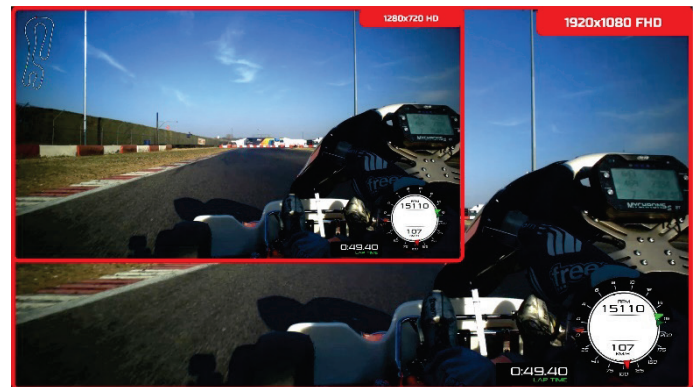
Standard action camera

### Full HD image

1920 x 1080 resolution

SmartyCam 3 Sport records video at 30 fps

SmartyCam 3 Dual and GP records video at 30 or 60 fps.



### Completely waterproof

Designed for being used in the hardest environments: water, dust, temperatures are not a problem.

### Sapphire frontal glass

The strongest glass for facing all high-speed impacts with pebbles, insects, dust that usually happen in a race.

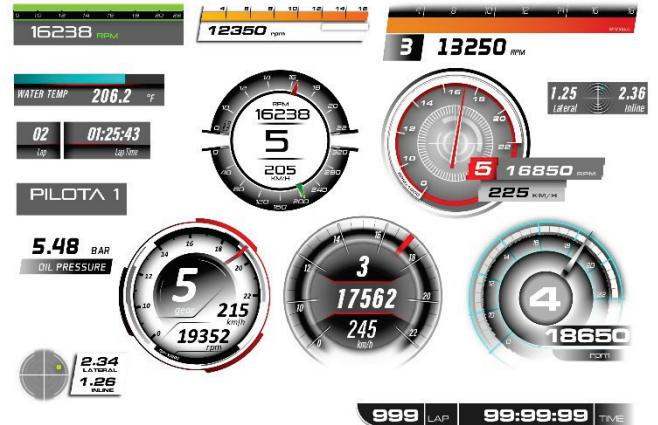






## A lot of graphic controls

Choose your preferred layout for keeping your data under control



## Secondary Camera (SmartyCam 3 Dual only)

Using Race Studio 3 software (supported from release 3.53.xx onward) you can place the video coming from the second camera where you prefer on the video, exactly as if you were adding any graphic control.



## Bullet camera (SmartyCam 3 GP and SmartyCam 3 GP Pro only)

This camera features a bullet camera whose connection cable to the main module can be from 0.5 to 4m long. It allows the user to install the camera on a bike or on a kart. This camera too needs to be configured with AiM Race Studio 3 software from release 3.57.00 onward.





## Additional internal memory (SmartyCam 3 GP Pro only)

In addition to the normal SD Card, **SmartyCam 3 GP Pro** features a 64 GB internal memory. This second memory is “round”; this means that when the memory is full older files are overwritten. No warning is given to the user.

## Auto start/stop recording

Avoid thinking at the camera while ready at the start/finish line.

## Automatic track selection

SmartyCam 3 may work connected to an AiM Logger or in a standalone installation: in the first case, it receives the track selected by the logger, while in the second case it automatically selects the proper track using the information coming from the GPS Module. In this way, it can draw the map and calculate lap number, lap times and rolling times.

## Video and data in the same file

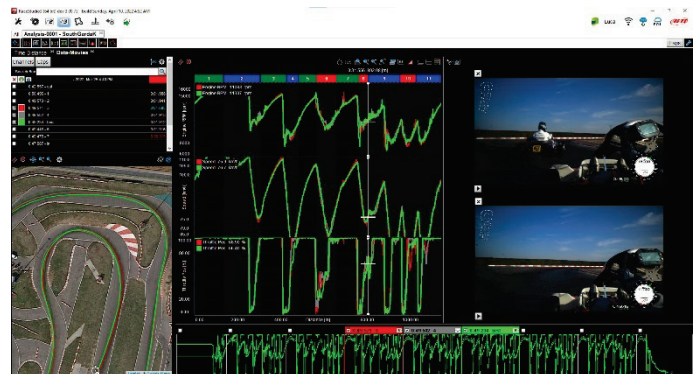
Your video and the most important data in the same MP4 file.

## Video Output (SmartyCam 3 Dual, SmartyCam 3 GP and SmartyCam 3 GP Pro only)

**SmartyCam 3 Dual, SmartyCam 3 GP and SmartyCam 3 GP Pro** feature a Video output that can be connected to an external video streamer.

## Automatic data and video synchronization

MP4 file stores the data SmartyCam 3 receives: in case they are not enough for your analysis, simply import into Analysis 3 both the video file and the data from your AiM logger and the software will automatically synchronize them: position on the track, video frame and data on the graph will be perfectly correlated



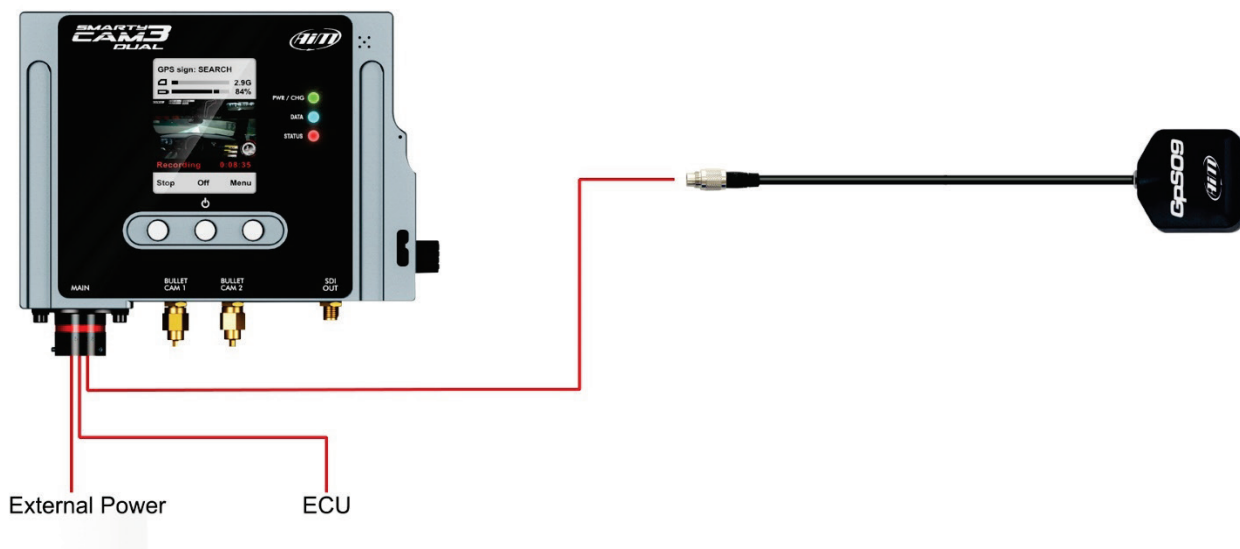
### 3 – SmartyCam 3 connections

SmartyCam 3 has an internal battery that may keep the system alive for a few minutes (around 20 min), so it is important to power it through an external 12 Volt battery. Here below you see some SmartyCam 3 connections.

To connect **SmartyCam 3 Sport** to GPS Module use the 5 pins Binder 712 female connector you find back on the camera and connect it to the 2 ways Data Hub needed to power the camera.



To connect **SmartyCam 3 Dual** to GPS Module use the "EXP" cable of 22 pins Deutsch female connector harness.



To connect **SmartyCam 3 GP** to GPS Module use the 5 pins Binder 712 female connector labelled "EXP".  
 To connect **SmartyCam 3 GP Pro** to GPS Module use the 5 pins Deutsch male connector (blue key) labelled "EXP".

SmartyCam 3 GP and  
SmartyCam 3 GP Pro



To connect **SmartyCam 3 Corsa** to GPS Module use the 5 pins Binder connector labelled "GPS".

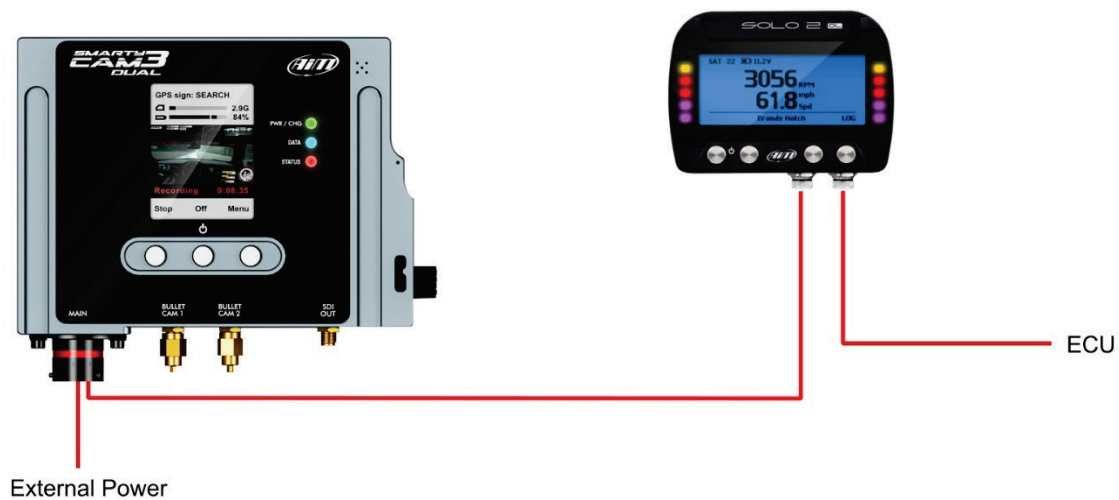






## User Guide

SmartyCam 3 can as well be connected to AiM Dashes and loggers through the AiM CAN network. The images below show some examples of connection.



SmartyCam 3 GP and  
SmartyCam 3 GP Pro



External Power

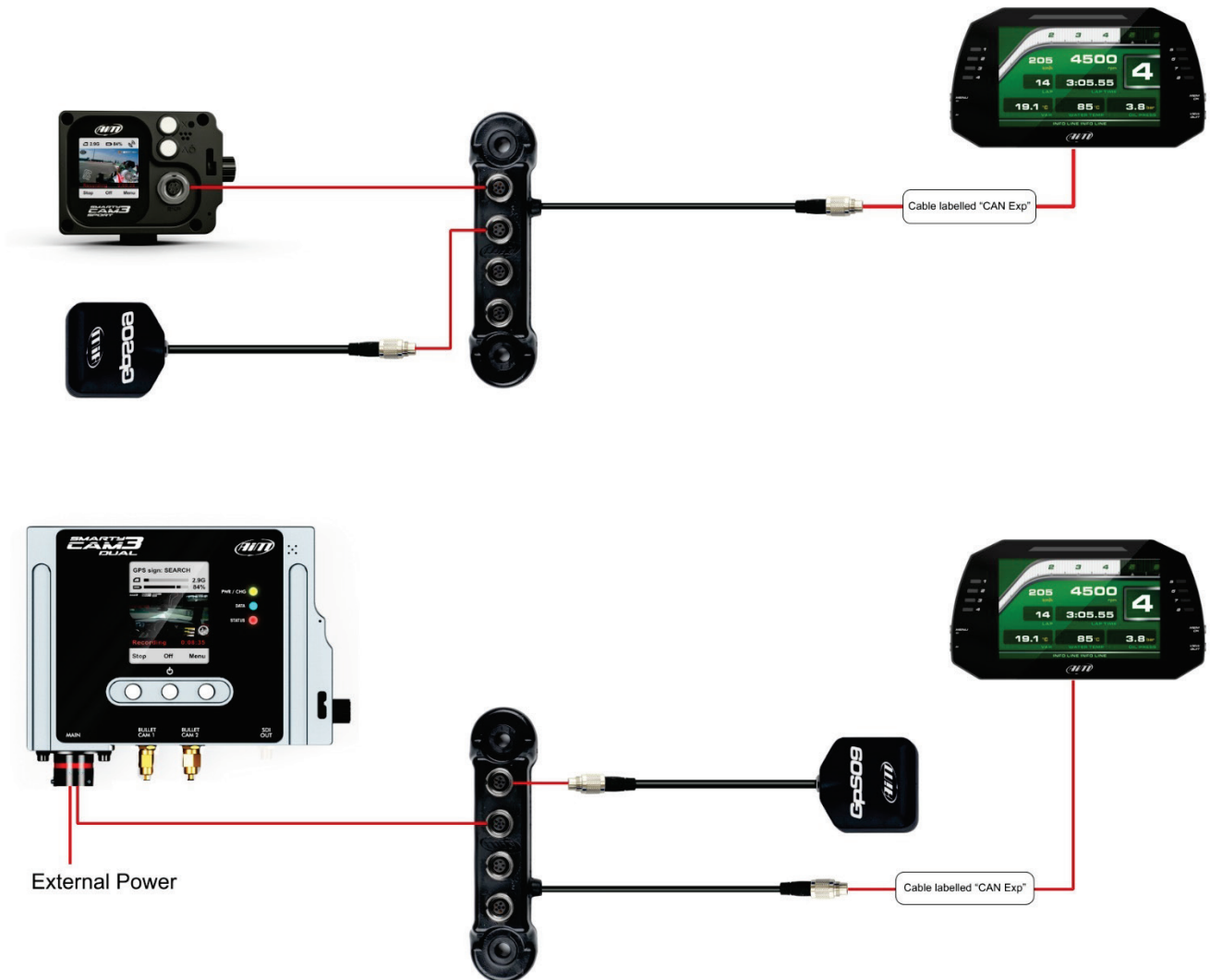
ECU



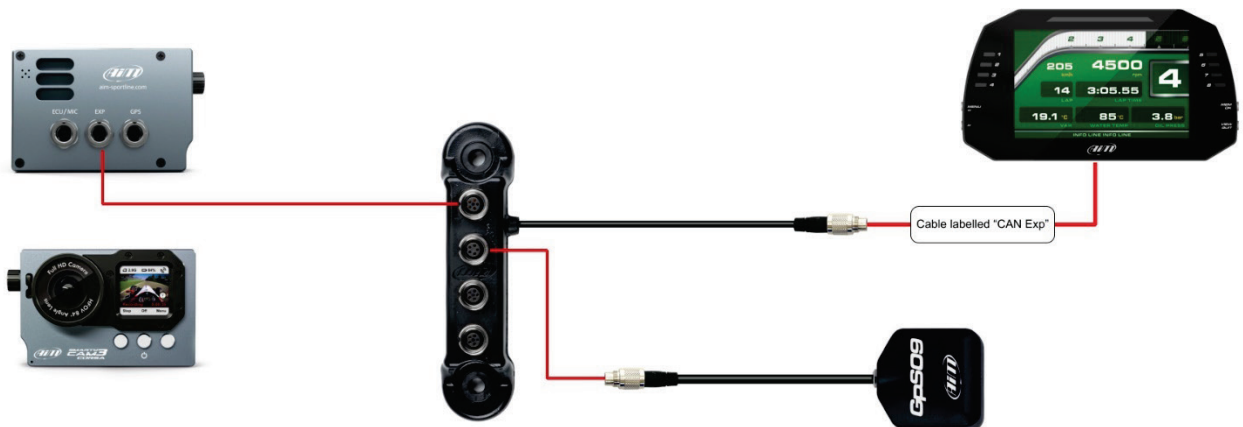
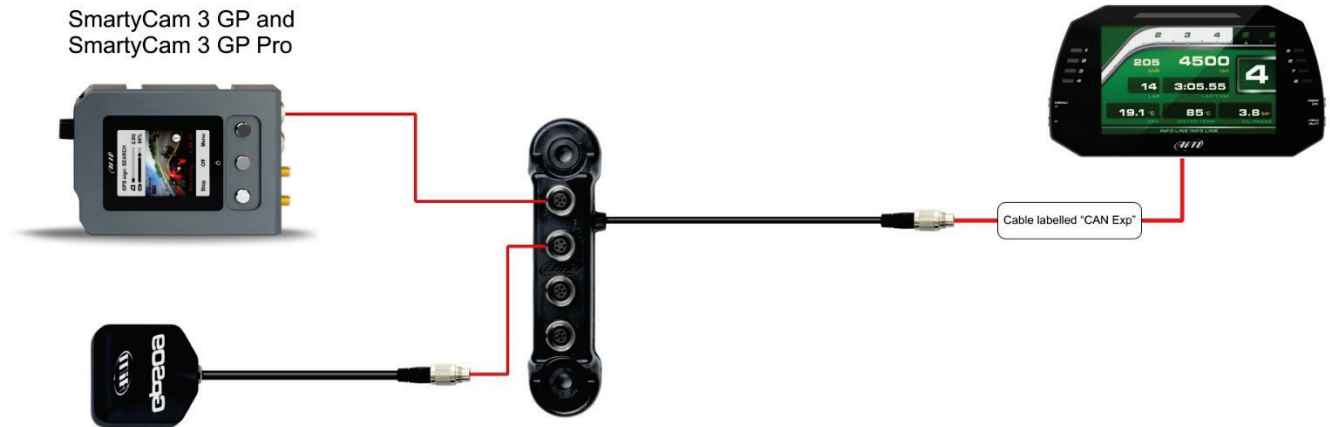
External Power

ECU

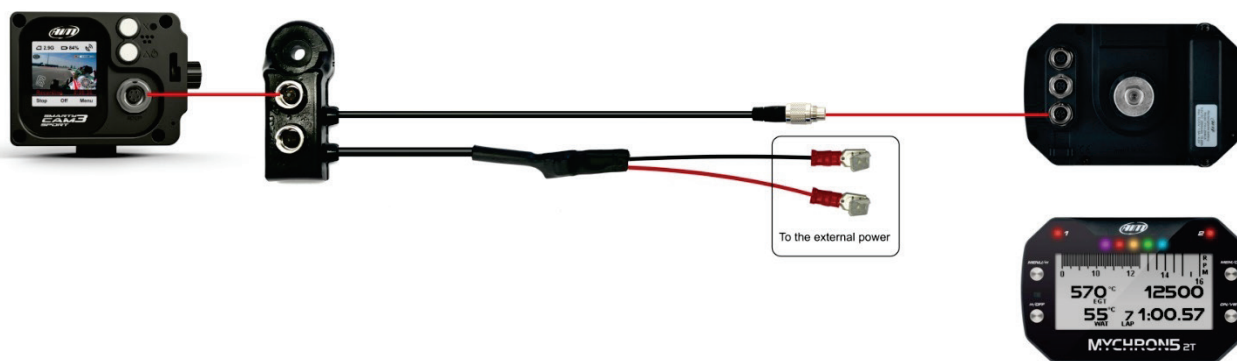




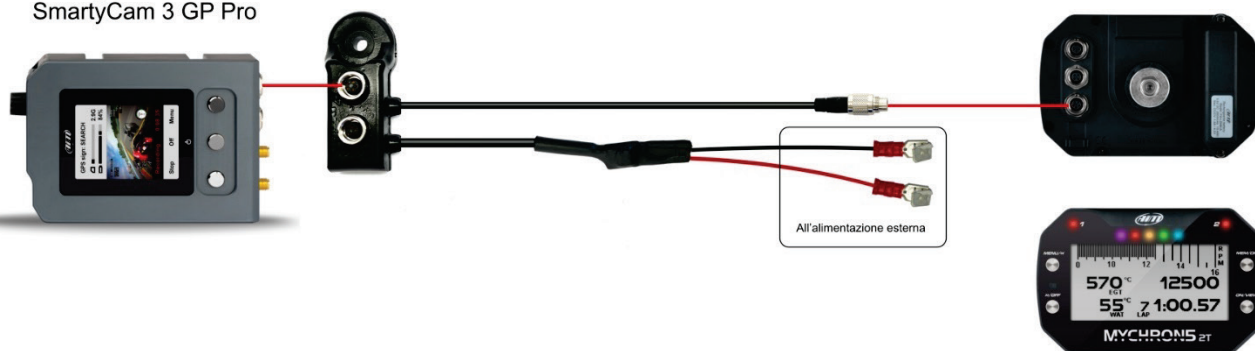
SmartyCam 3 GP and  
SmartyCam 3 GP Pro







SmartyCam 3 GP e  
SmartyCam 3 GP Pro



## 4 – SmartyCam 3 buttons, ON/OFF, powering and LEDs

### 4.1 – Pushbuttons

**SmartyCam 3 Sport** features two metal pushbuttons on its back, each of which manages two different features, in accordance to what shown in the display.



\* Pressione Lunga > 0.5 secondi  
Pressione breve < 0,5 secondi

The upper pushbutton manages the features corresponding to these icons:

- "X": short pressure
- ●: long pressure

While the lower pushbutton manages the features corresponding to these icons:

- △: short pressure
- ⏻: long pressure to turn OFF

**SmartyCam 3 Dual, SmartyCam 3 GP, SmartyCam 3 GP Pro and SmartyCam 3 Corsa** feature three metal pushbuttons on its front: the central one switches on/off the camera. The two lateral buttons working mode is indicated by the menu written bottom in the display.

SmartyCam 3 GP and SmartyCam 3 GP Pro



Switch on/off



Switch on/off



## 4.2 – Power ON/OFF and battery status

---

SmartyCam needs to be powered by an external power off and a battery icon on the display shows the battery charge status.

### 4.2.1 – Power ON/OFF

---

SmartyCam 3 need to be powered by an external power source to be connected:

- to the front Binder female connector for **SmartyCam 3 Sport**
- to the 22 pins Deutsch male connector harness proper wires for **SmartyCam 3 Dual**
- to the 7 pins Binder female connector for **SmartyCam 3 GP**
- to the 5 pins Deutsch male connector (blue key) labelled “EXP” for **SmartyCam 3 GP Pro**
- to the 5 pins Binder 712 female connector labelled “EXP” for **SmartyCam 3 Corsa**

SmartyCam 3 powers ON when:

- the proper pushbutton is pushed
- an external power turns ON

SmartyCam 3 turns **automatically** OFF when power input is missing and the camera is idle for the time period set in: “MENU >> SETTINGS >> AUTO POWER OFF”.

Available options are:

- 1 min
- 5 min (Default)
- 15 min
- 30 min

The camera is considered idle when:

- it is NOT recording
- there is NO active USB connection
- NO button is pressed
- SD card is not being inserted/extracted

Any change to the above conditions cancels or restarts the countdown for auto-power-off. If power input is restored the camera will NOT complete auto-power off procedure.

To **manually** power off SmartyCam 3 press the related button (⏻). The camera asks for confirmation.

**Please note:**

- **Although SmartyCam 3 Dual, SmartyCam 3 GP, SmartyCam 3 GP Pro and SmartyCam Corsa feature an USB-C connector in the (Micro) SD slot this USB-C connector CANNOT BE USED TO POWER THE CAMERA.**
- If **SmartyCam 3 Sport** is powered a steady red light is shown when the flap of the Micro SD card is open.





## 4.2.2 – Battery Status

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SmartyCam 3 display shows the battery status with the following icons:



external power unavailable and battery is nearly at full capacity



external power unavailable and battery is approximately half of its charge



external power unavailable and battery has little charge available



external power available and battery is fully charged



external power available and battery is being charged

### 4.3 – LEDs working mode (all SmartyCam 3 except for SmartyCam 3 Sport)

SmartyCam 3 Dual features three front LEDs while SmartyCam 3 GP, SmartyCam 3 GP Pro and SmartyCam 3 Corsa feature one only LED in the SD Card slot. The following paragraphs explain how they work.

#### 4.3.1 – Working Mode of SmartyCam 3 Dual frond LEDs

**SmartyCam 3 Dual** features three front LEDs labelled as follows:

- PWR/CHN (Power/Charge) on top
- DATA central
- STATUS bottom

Their appearance changes according to the message they are giving



##### PWR/CHG LED

- **Off:** external power not available
- **Blinking Red:** external power available and battery charging
- **Solid Red:** external power available and battery fully charged

##### DATA

This LED indicates the status of the connection of the two available CAN busses (CAN1 and CAN2) as follows:

- **OFF:** no data traffic, no Ethernet connection and no USB connection detected
- **Blinking Green:** non data traffic but ethernet connection detected
- **Blinking Blue:** non data traffic detected but USB connection
- **Blinking Cyan:** non data traffic detected but ethernet and USB connection detected
- **Solid Green:** data traffic available on CAN1 but not available on CAN2
- **Solid Blue:** data traffic available on CAN2 but not available on CAN1
- **Solid Cyan:** data traffic available on both CAN1 and CAN2
- **Solid Red:** mandatory data traffic is missing on either CAN1 or CAN2 interface: the failure status is determined by the current camera configuration

**Please note:** timeout condition on both CAN bus interface triggers after no data is continuously detected for 5 seconds

##### STATUS

- **Solid Red:** camera powered but unable to record data
- **Solid Blue:** camera ready to start recording
- **Solid Green:** camera currently recording

#### 4.3.2 – Working Mode of SmartyCam 3 GP, SmartyCam 3 GP Pro and SmartyCam 3 Corsa LED

SmartyCam 3 GP and  
SmartyCam 3 GP Pro



SmartyCam 3 Corsa



**SmartyCam 3 GP, SmartyCam GP Pro and SmartyCam 3 Corsa** feature a LED in the SD Card slot whose appearance change according to the message they are giving.

- **OFF:** **no** external power detected, **no** USB traffic detected, **no** CAN EXP traffic detected, **no** ECU CAN traffic detected
- **Flashing:** external power detected and internal battery charging
- **Solid:** external power detected and internal battery fully charged
- **Flashing:** USB traffic detected
- **Solid:** CAN ECU traffic detected

**Please Note:** CAN ECU takes precedence on the reporting of USB connection. When CAN ECU traffic is detected USB Connection status will not be reported anymore until a Power off/Power on cycle has been completed.

- **Solid:** CAN EXP Traffic detected

## 5 – (Micro) SD card management

SmartyCam 3 cameras can support up to 2 TB cards. **SmartyCam 3 Sport** supports Micro SD only while **SmartyCam 3 Dual**, **SmartyCam 3 GP**, **SmartyCam 3 GP Pro** and **SmartyCam 3 Corsa** support SD. **For the (Micro) SD to correctly communicate with Race Studio 3 software you need to insert the card in SmartyCam 3 slot before inserting it in the PC slot.** The (Micro) SD is used not only to store video recorded by the camera but also to load the configuration and the firmware to the camera (see paragraph 7.4 for further information).

For both cameras the housing is closed by a plastic thumb screw. To open it press and turn the plastic thumb screw clockwise as written on the camera and shown here below. To close the door, firmly shut the flap and press in the thumbscrew then turn it counter clockwise.

### SmartyCam 3 Sport



### SmartyCam 3 Dual



### SmartyCam 3 GP and SmartyCam 3 GP Pro





## 6 – SmartyCam 3 Start/Stop recording

SmartyCam 3 can start/stop recording manually or automatically.

When SmartyCam 3 is recording the display becomes red and switches off after a minute.

To **Manually Start Recording**, simply press "Rec" button. If you press it again, SmartyCam 3 stops recording

### Automatically Start Recording:

It is possible to enable the Automatic Start Recording, following this path:

- "MENU → SETTINGS → AUTO START REC →". In this case SmartyCam 3 starts and stops recording without any activity by the user.  
There are two different ways for managing this setting:
  - SmartyCam 3 is **connected to a Master**: it starts recording the video when the master starts recording data.
  - SmartyCam 3 is **in a Stand Alone Installation**: you may define the conditions for starting and stopping the videorecording. This requires configuring SmartyCam 3 parameters through the Configuration software Race Studio 3, as explained in paragraph 8.1.3.

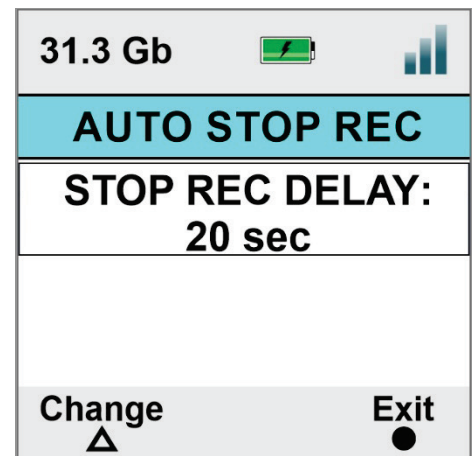


To set automatic stop recording follow this path: "MENU → SETTINGS → AUTO STOP REC"

Available options are:

- "5 sec"
- "20 sec" (default)
- "1 min"
- "2 min"
- "5 min"

The camera stops recording after the time period of inactivity here set.





## 7 – SmartyCam 3 Menu

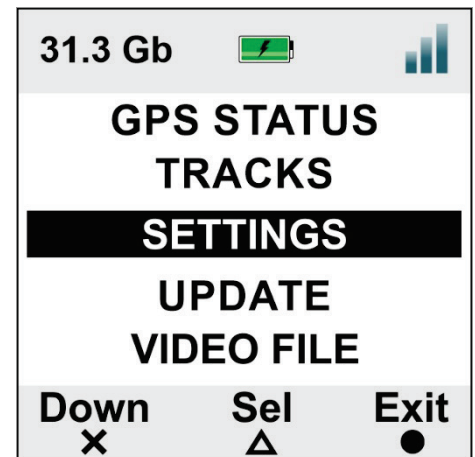
SmartyCam 3 settings can be changed using the pushbuttons. Pressing “MENU” this page shows up:

Available options are:

- **GPS STATUS:** status of the connected GPS
- **TRACKS:** to show the list
- **SETTINGS**
- **UPDATE**
- **VIDEO FILE**

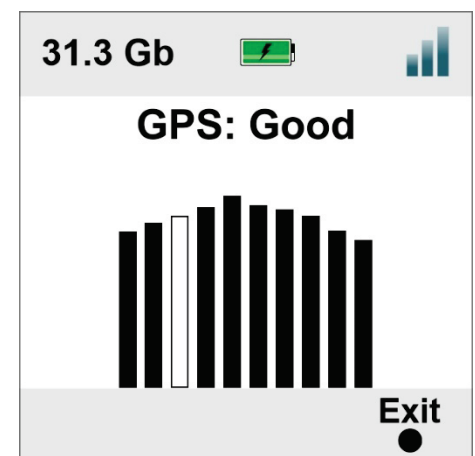
In any situation use:

- “Down” (X) button to scroll the options
- “Sel” (Δ) to select and
- “Exit” (●) to quit and save



### 7.1 – GPS Status

Shows the number of connected satellites with the related signal level.



## 7.2 – Tracks

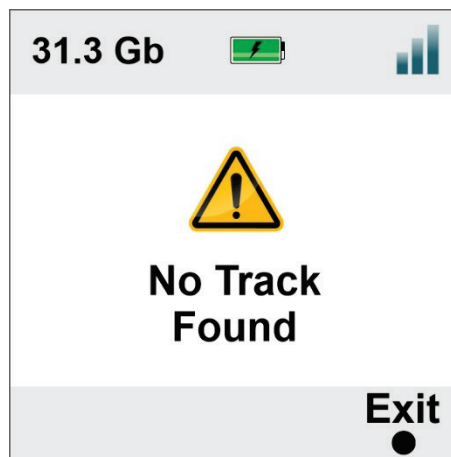
SmartyCam 3 can show the map of the circuit if loaded in its configuration (see paragraph 8.1.2 for further information) as well as the position of the vehicle on the track.



SmartyCam 3 can be installed in two ways:

- connected to an AiM logger such as : MyChron5, Solo 2 DL, MX\* loggers, SW4, PDMs and EVOs; in this case the maps are loaded on AiM logger, that automatically selects the one you are racing on and transmits it to SmartyCam 3 that shows it in the video, in the position you defined during the configuration (please refer to paragraph 8.1.2 for further information).
- Connected to a GPS Module; in this last case you need to load the track maps directly to SmartyCam 3 using
  - the (Micro) SD (all versions)
  - the Ethernet cable (**SmartyCam 3 Dual only**)
  - the USB cable (**SmartyCam 3 GP, SmartyCam 3 GP Pro and SmartyCam 3 Corsa only**)

At the very first power ON the camera has no tracks in its internal database (image below) while if connected to an AiM Logger, this last will send the tracks information to the camera, else you need to load the tracks, as explained here down.

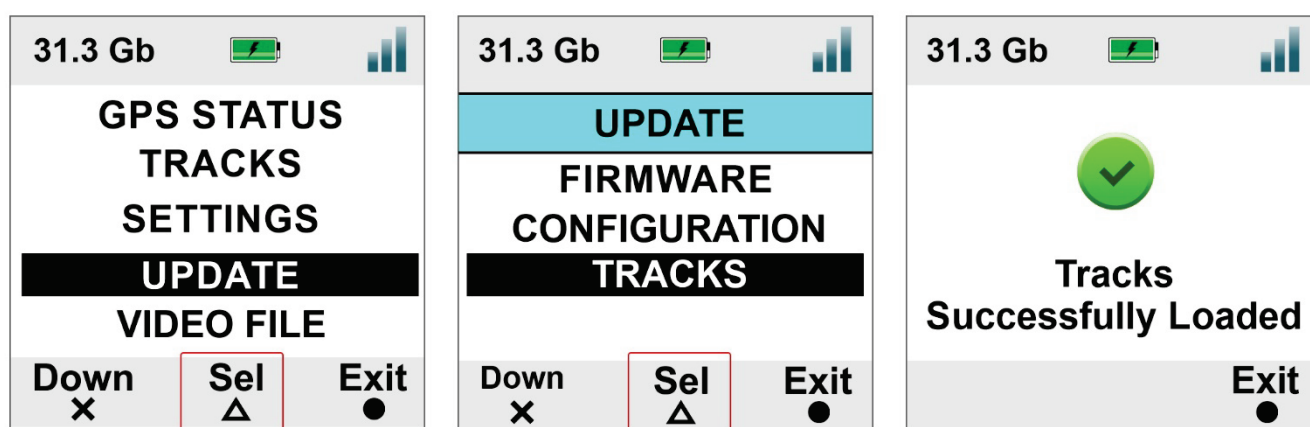


## 7.2.1 – Loading tracks to SmartyCam 3

Tracks can be loaded to SmartyCam3 through the (Micro)SD (standard procedure), through the ethernet or the USB connection according to the model you are using.

**All cameras** allow you to load tracks on SmartyCam 3 using the (Micro) SD card this way:

- place the (Micro) SD in SmartyCam3 ~~Sport~~ and power it on – to properly format the card
- remove the card from SmartyCam and insert it in the PC slot
- run Race Studio3 software and load the tracks on the (Micro) SD (refer to paragraph 8.3 for further information)
- insert the (Micro) SD in SmartyCam 3 and follow this path: MENU → UPDATE → TRACKS
- press “Sel
- in a few seconds SmartyCam 3 loads the tracks.



**SmartyCam 3 Dual** allows the user to load the track **also** using both the Ethernet cable included in standard+Ethernet and in Full harnesses or any USB-C cable; please perform these operations:

- with SmartyCam 3 Dual switched on and connected to the PC run Race Studio 3 software
- click “Track” Icon
- click on the SmartyCam 3 Dual you see bottom left of the software view
- select the tracks you want to load in the central column of the software view and drag and drop them to the right column where the tracks stored in SmartyCam are shown. Please refer to paragraph 8.3 for further information

**SmartyCam 3 Dual, SmartyCam 3 GP, SmartyCam 3 GP Pro and SmartyCam 3 Corsa** allows the user to load the track **also** using any USB-C cable; please perform these operations:

- with SmartyCam switched on and connected to the PC run Race Studio 3 software
- click “Track” Icon
- click on the SmartyCam you see bottom left of the software view
- in the central column of the software view select the tracks you want to load and drag and drop them to the right column where the tracks stored in SmartyCam are shown. Please refer to paragraph 8.3 for further information

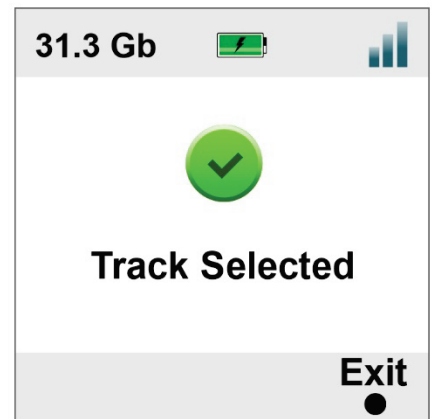
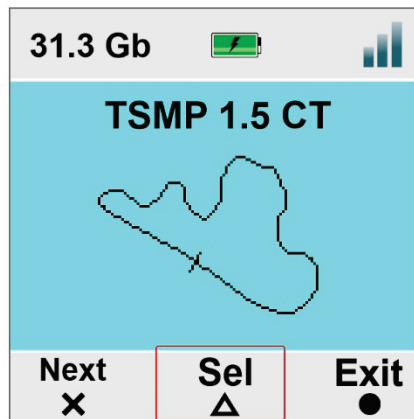
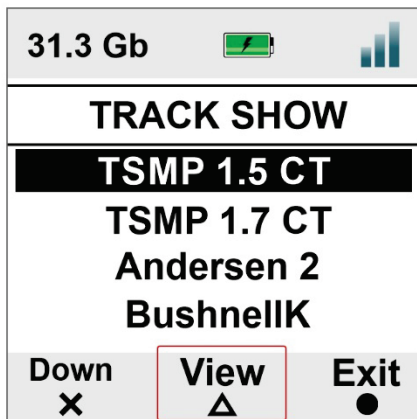
## 7.2.2 – Managing tracks on SmartyCam 3

If **SmartyCam 3** is connected to **AiM GPS09 Module only**, track selection can be managed in two ways: automatic (AUTO – default) and manual

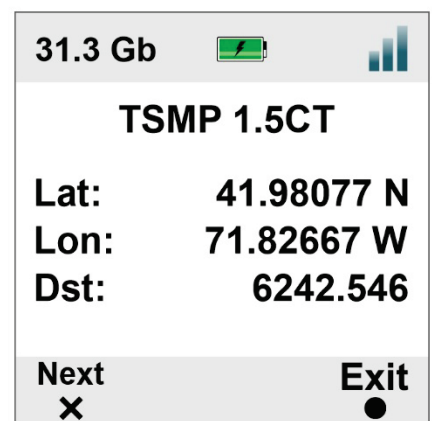
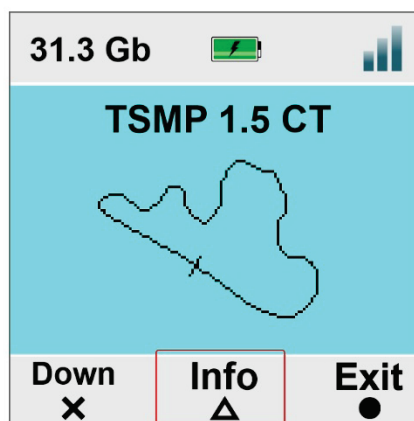
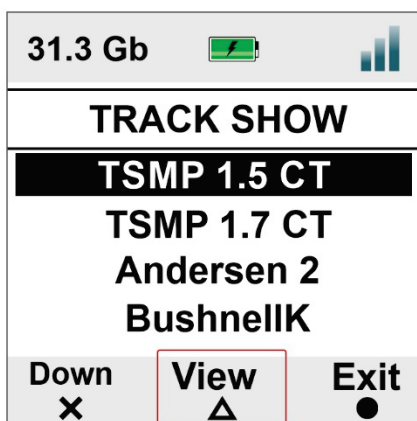
In **AUTO** mode SmartyCam 3 recognizes and selects the map of the circuit you are racing on.

In **MANUAL** mode you need to select the track by yourself. To **manually set a track** on SmartyCam 3:

- press “Change” (Default setting is Auto)
- the track list is shown: locate your track
- press: “View”
- press “Sel”
- SmartyCam 3 shows a confirmation message



TRACKS Menu allows to **see a preview of the track** and the related information too. In “TRACK” menu scroll to “TRACK SHOW” and press “SEL”. This is very useful in case more configurations of the same tracks are available as shown here below.





## 7.3 – Settings

---

Setting Menu is used to set:

- Auto Start Rec
- Auto Stop Rec
- Auto power off
- Export Logs
- System Time
- Video set
- Exposure set
- Audio Set
- Video Output (**SmartyCam 3 Dual and SmartyCam 3 GP/GP Pro only**)
- Rec Counter
- Overlay
- Clear Tracks
- Flip over (**SmartyCam 3 Sport and SmartyCam 3 Corsa only**)
- Factory Reset
- Info

### 7.3.1 – Auto Start Rec

---

As explained in chapter 6, SmartyCam 3 is enabled for automatically starting and stopping the video recording. This happens in two different ways:

- if connected to an AiM Logger it starts/stops recording when the logger does
- if connected to a GPS09 Module it starts recording according to the conditions set in its configuration. Please refer to paragraph 8.1.3 for further information.

### 7.3.2 – Auto Stop Rec

---

As explained in chapter 6, Auto stop recording feature sets a delay that the SmartyCam 3 respects before closing the mp4 file when the recording conditions are no longer met.

### 7.3.3 – Auto power off

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As explained in paragraph 4.2, SmartyCam 3 turns automatically OFF after a time period, here defined, of no activity detected.

### 7.3.4 – Export LOGS

---

When SmartyCam3 is on it creates a LOG FILE containing all the information that can help understanding possible problems. This file records all information from the switch on and keeps about a month time memory. In case you need help from AiM Support team, please, export the LOG file to the (Micro) SD and send it to our support team. **Please note:** logs file can only be exported to the (Micro) SD.

### 7.3.5 – System time

---

SmartyCam 3 has an internal clock powered by a battery and constantly updated by the external GPS09 Module. **Please note** that both Time Zone and Saving Time Zone are considered and automatically corrected.

In this Menu Voice you may define different date/time formats.

- Available time formats are: 0-11.59 am/pm or 1-12.59 am/pm or 0-24

Available date format are: DD/MM/YYYY or MM/DD/YYYY or YYYY/MM/DD

### 7.3.6 – Video Set (SmartyCam 3 GP only)

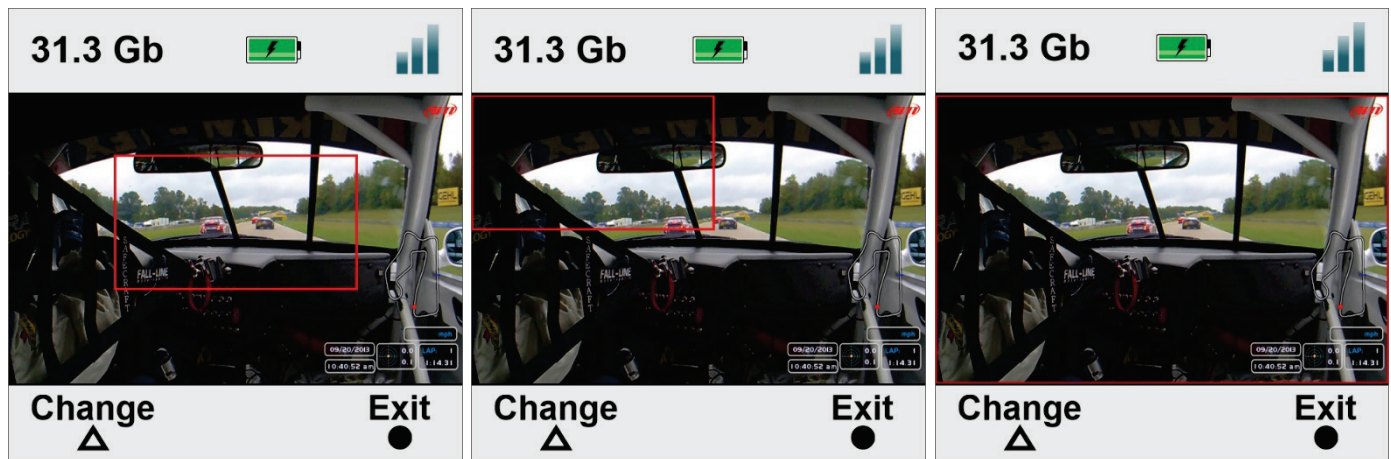
This option allows to set the frame rate. Available options are:

- 30fps (Default)
- 60 fps (please be careful when touching the camera set at 60fps because it can be very hot)

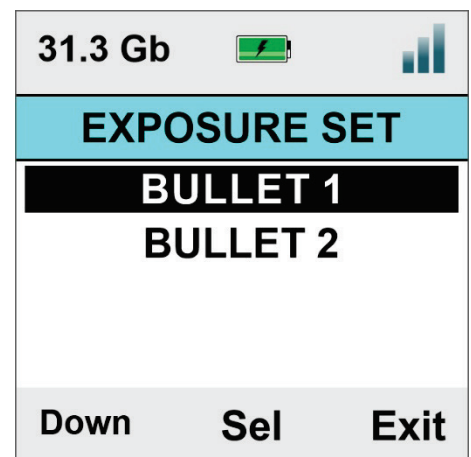
### 7.3.7 – Exposure set

This option allows to set the part of the shot to be used as reference. As shown in the images below:

- use “Change” button to modify the area to be used for adjusting the light. The area is shown through a red rectangle. Please, select the whole frame (right image below) in case of installations in open cockpits.
- use “Exit” button to save and exit



**SmartyCam 3 Dual only** has two bullet cameras: you may select the one for which you like to set the exposure.

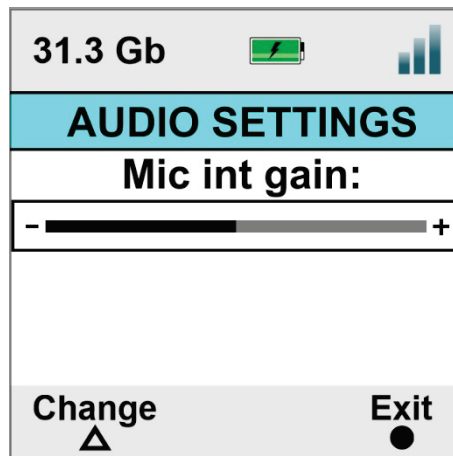




### 7.3.8 – Audio set

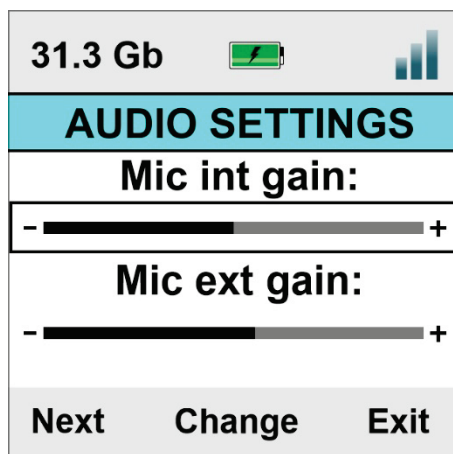
**SmartyCam 3** comes with an internal microphone. To set it.

- Use “Change” button to set the gain
- Use “Exit” button to save and exit



**SmartyCam 3 Dual**, **SmartyCam 3 GP** and **SmartyCam 3 Corsa** support an external microphone too as shown here below. To connect it you need:

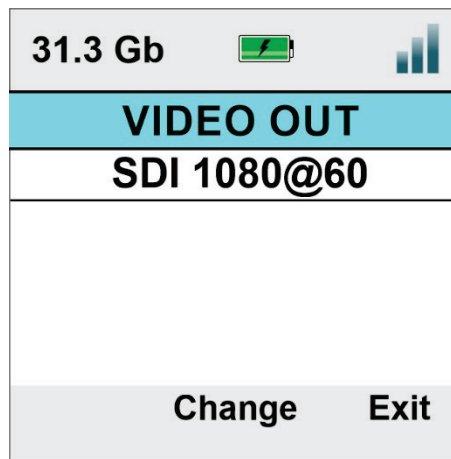
- **SmartyCam 3 Dual** full harness that can support any microphone that features a 3.5mm jack male connector
- one among these available optional cables for **SmartyCam 3 GP** and **SmartyCam 3 Corsa**, to say:
  - cable with jack for external microphone (part number **V02584040**) that can support any microphone that features a 3.5mm jack male connector
  - cable with CAN ECU and jack for external microphone (part number **V02584140**) that can support any microphone that features a 3.5mm jack male connector



### 7.3.9 – Video Out (SmartyCam 3 Dual and SmartyCam 3 GP only)

**SmartyCam 3 Dual, SmartyCam 3 GP** and **SmartyCam 3 GP Pro** feature an SDI video output that allows to send the video/audio stream to a streamer at 30/60 fps to perform a video streaming. Available options are:

- disable (default)
- 1080p 30fps
- 1080p 60fps (this setting can lead to high temperature risk)



### 7.3.10 – Rec Counter

This page shows the number of recording of SmartyCam 3. Press "Reset" to reset the counter.

### 7.3.11 – Overlay

In case you wish to record a video without Overlays, you may disable them in this voice of the menu.

### 7.3.12 – Clear tracks

Here you can clear all tracks from SmartyCam3; the system asks for confirmation.

### 7.3.13 – Flip over (SmartyCam 3 Sport and SmartyCam 3 Corsa only)

**SmartyCam 3 Sport** and **SmartyCam 3 Corsa** have a standard  $\frac{1}{4}$  thread in its base that is used for mounting it. Sometimes, in closed cars, it is more comfortable to install the camera upside down. In this case, you have to flip the video over.











### 7.3.14 – Factory reset

This menu option resets SmartyCam 3 to its default values, shown in the fourth page of Info function (Paragraph 7.3.15).



### 7.3.15 – Info

The information here shown are important in case you need help from AiM Support Team. “Restore Info” page tells you which firmware release will be restored if you decide to perform a factory reset.

31.3 Gb  	31.3 Gb  	31.3 Gb  	31.3 Gb  
<b>SYSTEM INFO</b>	<b>CONNECTION INFO</b>	<b>HW INFO</b>	<b>RESTORE INFO</b>
Fw-Rel: 00.00.32 Fw-Date: 06/04/2022 Fw-Hour: 17.33 SN: 11112	AiM-SC3 - 11112	Hw Rel: SMC10C Date: 2022-02-17	Rel: 00.00.27 Date: 06/04/2022 Hour: 17.33
Next X	Next X	Next X	Next X
Exit ●	Exit ●	Exit ●	Exit ●



### 7.4 – Update

It allows to update:

- SmartyCam 3 Firmware version
- Configuration (the overlay transmitted to SmartyCam3); the camera can load one configuration at a time only}
- Tracks

Updating can be performed in three ways:

- exporting firmware, configuration or tracks to the (Micro) SD through AiM RaceStudio 3 software and loading them to SmartyCam 3
- through the USB-C connection (**except for SmartyCam 3 Sport**)
- through the Ethernet connection (**SmartyCam 3 Dual only**).

31.3 Gb  
<b>UPDATE</b>
<b>FIRMWARE</b>
<b>CONFIGURATION</b>
<b>TRACKS</b>
Down X
Sel Δ
Exit ●

### 7.4.1 – Firmup

**All SmartyCam 3** can update the firmware through the (Micro) SD following this procedure:

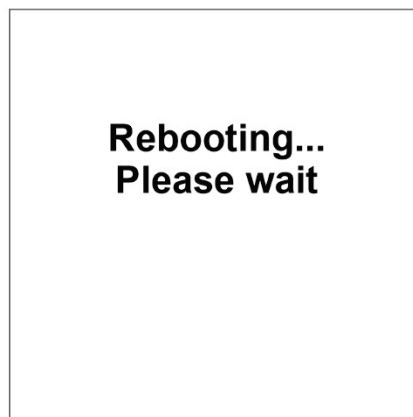
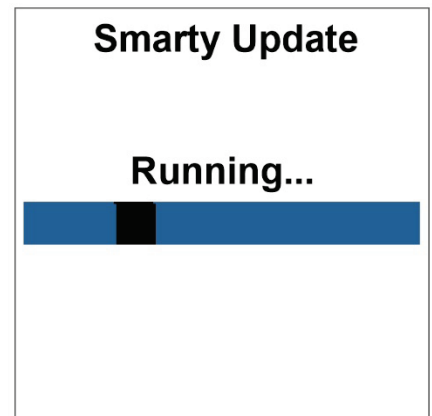
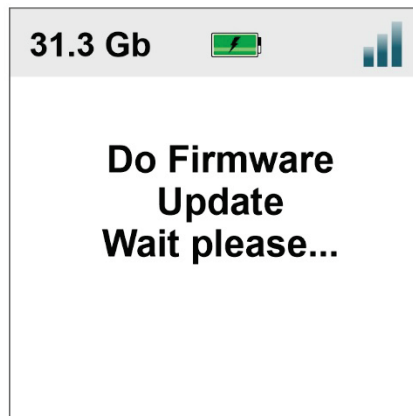
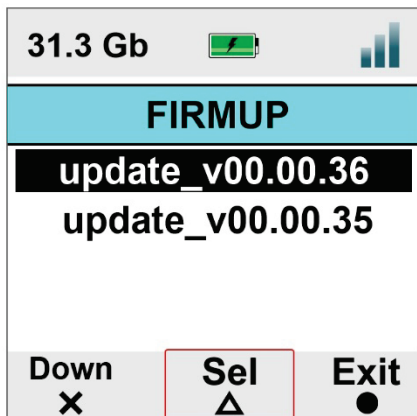
- insert the (Micro) SD in SmartyCam 3 slot and switch the camera on so that Race Studio 3 will correctly communicate with it
- remove the card from SmartyCam 3 and insert it in the PC Slot
- run Race Studio 3 and navigate to the top right “web updates” cloud icon
- if a new SmartyCam 3 firmware is available check mark it and click “download”
- the software detects SmartyCam 3 (Micro) SD and – as you click “update device” – loads the firmware on it
- replace the (Micro) SD in SmartyCam 3 slot and switch the camera on
- follow this path MENU >> FIRMUP
- the camera shows the available firmware releases
- select the one you want to install and wait; in a few moments the camera will reboot and the new firmware is installed.

**SmartyCam 3 Dual** can update the firmware **also** through the Ethernet connection: connect the camera to the PC using the proper cable:

- run Race Studio 3 and navigate to the top right “web updates” cloud icon
- If there is a new SmartyCam 3 firmware check mark it and click “download”
- once the firmware downloaded click “update device” and wait; in a few moments the camera will reboot and be updated.

**SmartyCam 3 Dual, SmartyCam 3 GP, SmartyCam 3 GP Pro and SmartyCam 3 Corsa** can update the firmware **also** through the USB-C connection placed in the camera Micro (SD) slot: connect SmartyCam 3 to the PC using the proper cable:

- run Race Studio 3 and navigate to the top right “web updates” cloud icon
- If there is a new SmartyCam 3 firmware check mark it and click “download”
- once the firmware downloaded click “update device” and wait; in a few moments the camera will reboot and be updated.





### 7.4.2 – Tracks update



Tracks can be updated as the firmware does. Please refer to paragraph 7.4.

### 7.5 – Video file

This page shows the list of video file stored in SmartyCam 3 (Micro) SD card.

31.3 Gb  		
VIDEO LIST		
04/15 09:52 2.2M		
04/27 10:44 0.3G		
04/27 13:47 0.4G		
04/28 11:49 0.3G		
Down X	Del △	Exit ●

**SmartyCam 3 GP Pro** features an additional 64 Gb internal memory too; entering “Video File” function the system asks the user to select the storage device to manage.

31.3 Gb  		
STORAGE		
INT. DISK		
SD CARD		
Down X	Sel △	Exit ●

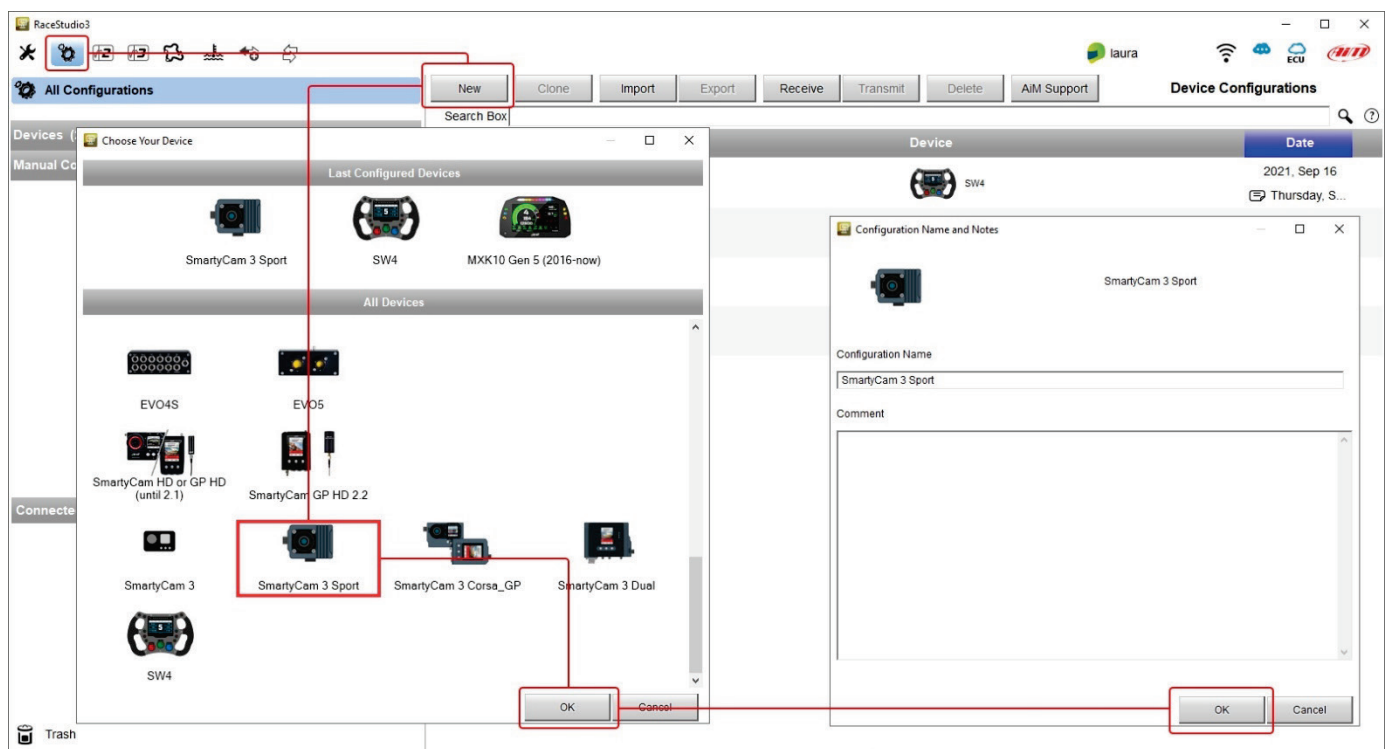
## 8 – SmartyCam 3 and the PC

As for Firmware Updating, Tracks and Configuration Loading SmartyCam 3 can be configured using the (Micro) SD but, in addition to this mode, SmartyCam 3 Dual can be configured also connecting it directly to the PC through Ethernet or USB – C connection.

### 8.1 – Creating SmartyCam 3 configuration

To create SmartyCam 3 configuration:

- Run Race Studio 3 software
- press “NEW” to create a new configuration
- “New configuration” panel appears
- select your “SmartyCam 3”
- fill in the panel that is prompted and press “OK”



Race Studio 3 software enters directly SmartyCam 3 overlay tab. The tabs to configure change according to your camera model. SmartyCam 3 can be connected to a **MASTER** (any **AiM Logger**): in this case, it must be configured in “**SLAVE MODE**” and will receive all the information to be shown from the logger

**Standalone:** in this case it can be connected to:

- AiM GPS Module only and will show only GPS data (position, speed, accelerations, Lap Number, Lap Time – **SmartyCam 3 Sport**)
- AiM GPS Module and the vehicle ECU showing all data coming from both (**SmartyCam 3 Dual**, and **SmartyCam 3 GP** **SmartyCam 3 GP Pro** and **SmartyCam3 Corsa**)







If **SmartyCam 3 Sport** is **standalone**, you need to set:

- “Overlay” tab
- “Parameters” tab



If **SmartyCam 3 Dual**, **SmartyCam 3 GP**, **SmartyCam 3 GP Pro** or **SmartyCam 3 Corsa** are standalone you need to set:

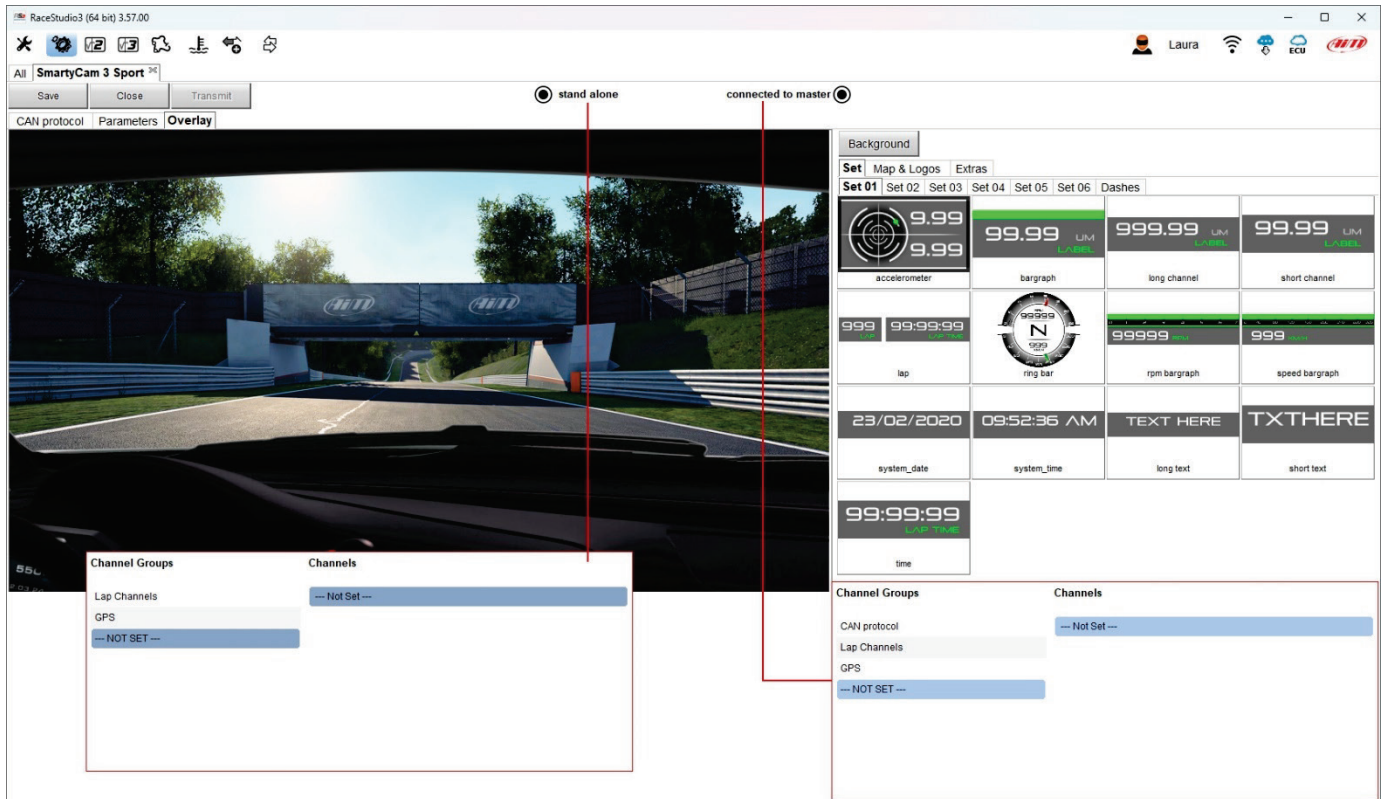
- “ECU Stream” tab
- “Parameters” tab
- “Overlay” tab



If **SmartyCam 3** (all models) is **connected to a master**, you also need to set “CAN Protocol” tab.

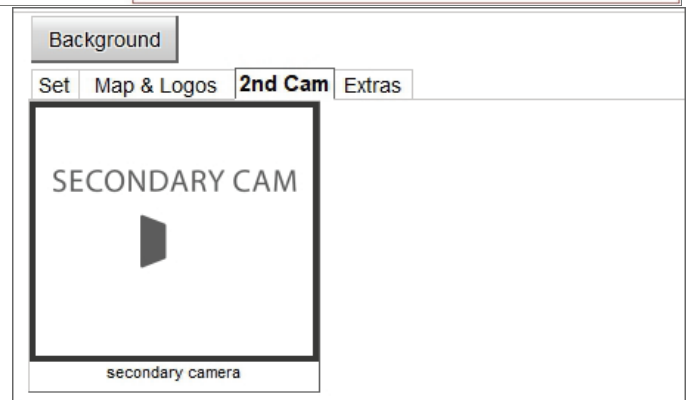
## 8.1.1 – Configuring SmartyCam 3 overlay

Overlay configuration tab changes according to your SmartyCam 3 setting.



The overlays you may add to your video are:

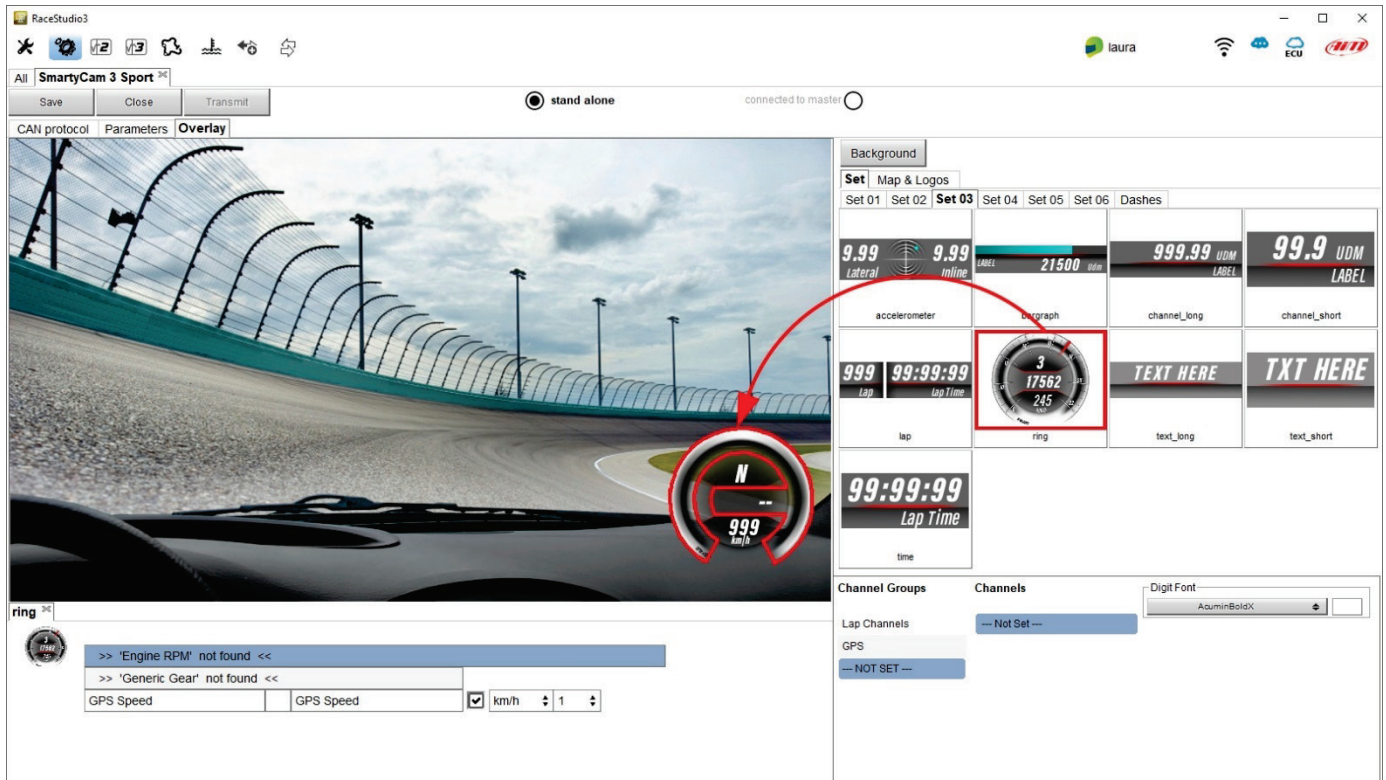
- Graphical data
- Track Map and Logos
- Second Camera as **P in P** (picture in picture – **SmartyCam 3 Dual only**) as shown here on the right
- Extras:
  - generic graphic controls like coloured bar graph you can match to any channel
  - specific graphic controls that match specific channels indicated in the bottom left panel of the page when you drag and drop the control in the preview part of the page.



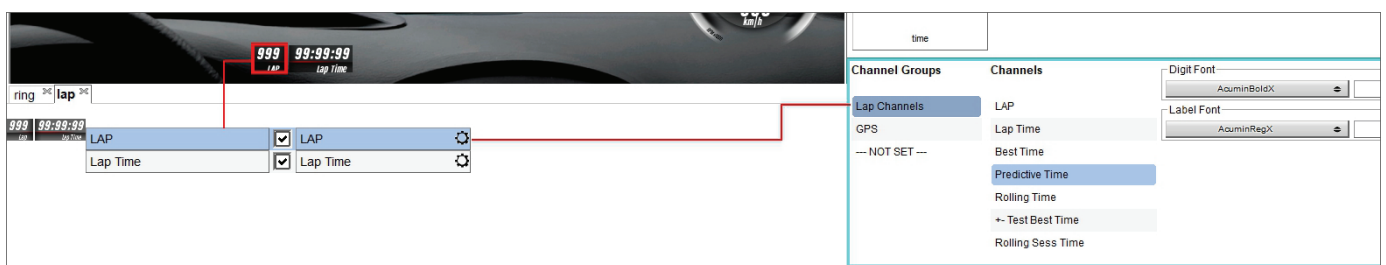


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You may choose in a wide set of graphical controls double clicking on the one you prefer or dragging and dropping it to the desired position in the video preview.



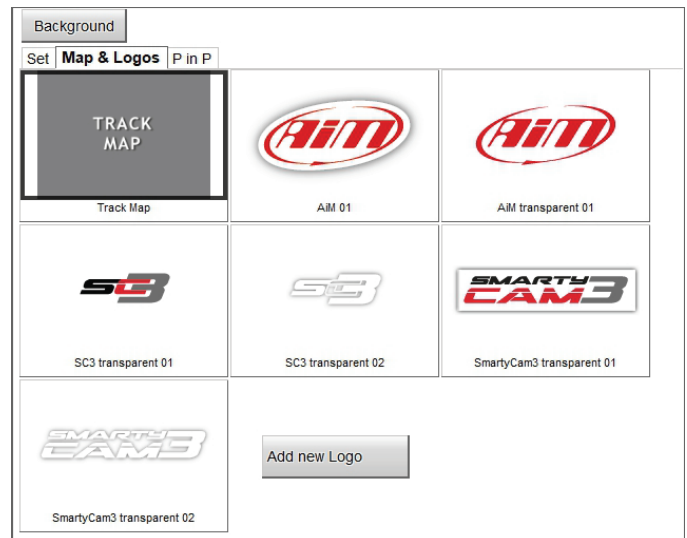
If a graphical control may show a range of possible information, you must select the appropriate channel. In the example below you are configuring a control that may show Lap Number, Lap Time, best Time, Predictive Time etc.: simply click on the desired information and you will set it.





## 8.1.2 – Logos & MAP and second camera (SmartyCam 3 dual only) setting

To add the map of the circuit or a logo to the video please click on Maps & Logos and drop the logo or the Track Map in the desired position. You may easily change shape, dimension, and position or add a new logo.



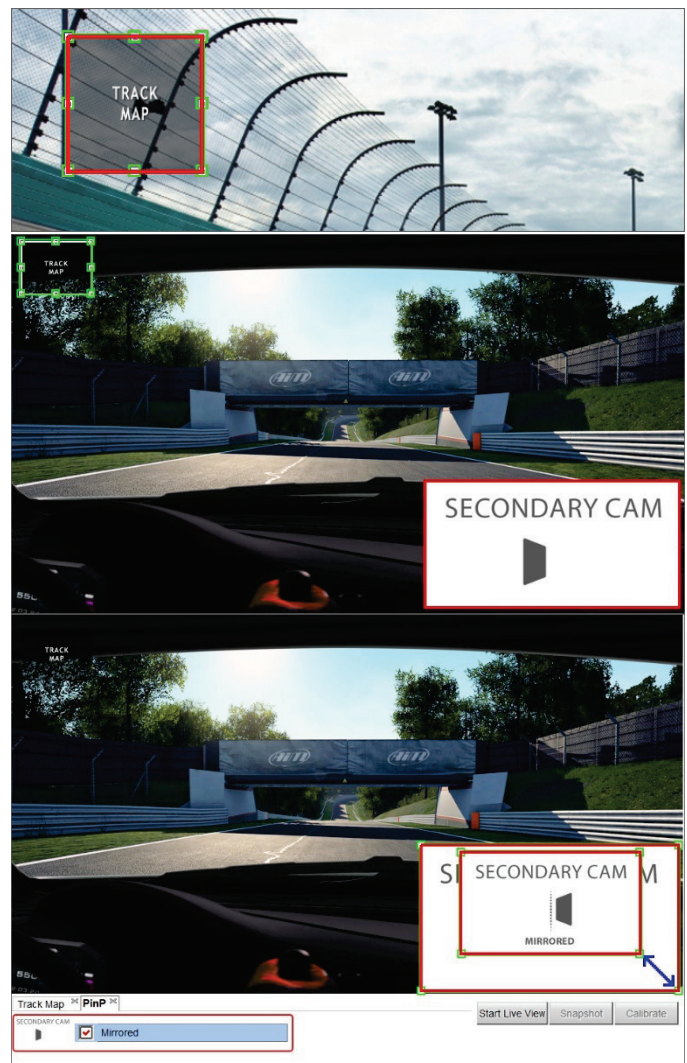
Please, note that, when configuring SmartyCam 3, you only set position and dimension of the track map while the shape of the circuit dynamically changes according to the circuit you are racing on.

Here on the right you see an overlay where both track map and secondary camera as Picture in picture (**SmartyCam 3 dual only**) are set.

Starting from:

- SmartyCam Dual firmware version 1.03.05
- and Race Studio 3 software version 3.55.07

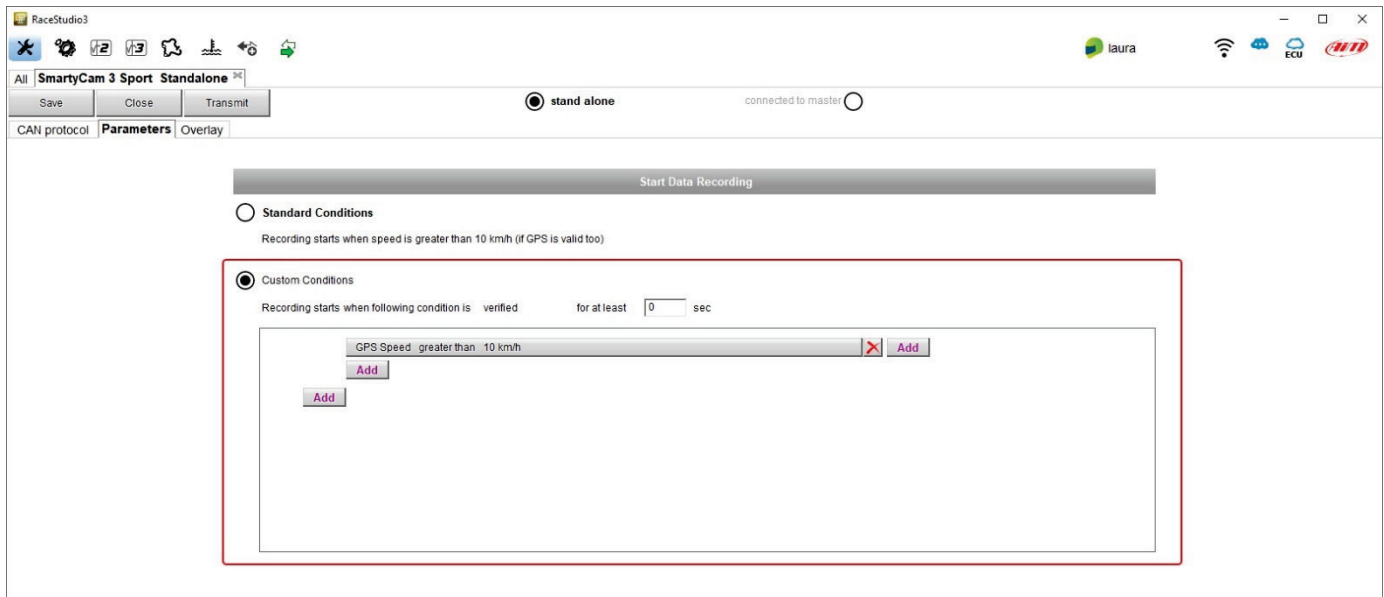
it is possible to resize and mirror the secondary camera as shown here on the right.



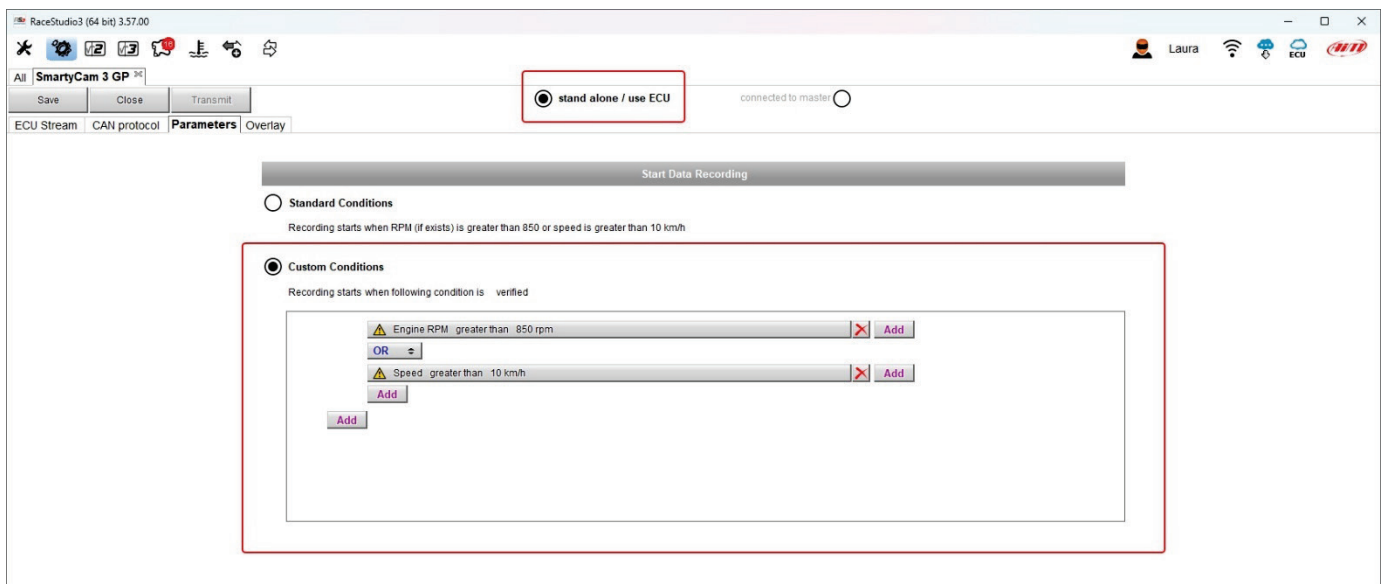
### 8.1.3 – Configuring SmartyCam 3 parameters

If SmartyCam 3 is **connected to a Master** it starts recording when the master does.

In case of a **Stand-Alone** installation SmartyCam3 start recording at different condition according to the model you are using.  
**SmartyCam 3 Sport** starts recording when speed is greater than 10kmh (if GPS is valid too) but you can set a custom condition.



**SmartyCam 3 Dual, SmartyCam 3GP, SmartyCam 3 GP Pro and SmartyCam 3 Corsa** start recording when RPM (if available) is greater than 850 or speed is greater than 10kmh but you can set custom condition, using an ECU channel too as shown here below.



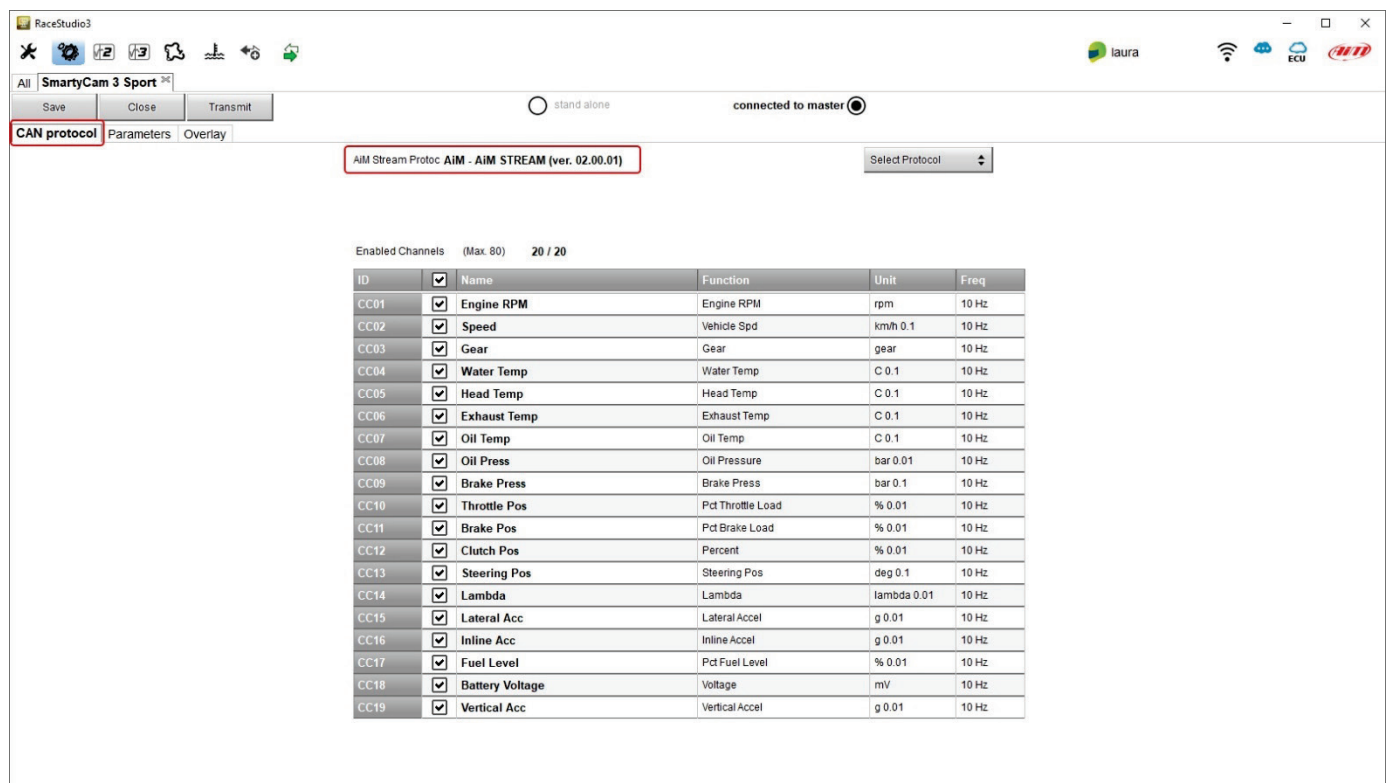


### 8.1.4 – Configuring CAN Protocol (SmartyCam 3 connected to a master only)

The connection between any AiM Logger and SmartyCam3 is made through the CAN bus. The logger transmits data to the camera in two slightly different ways:

- AiM default Protocol
- Advanced Protocol

AiM Default Protocol transmits a rather limited range of information, enough for a wide range of installations. They are shown below:



ID	Enabled	Name	Function	Unit	Freq
CC01	<input checked="" type="checkbox"/>	Engine RPM	Engine RPM	rpm	10 Hz
CC02	<input checked="" type="checkbox"/>	Speed	Vehicle Spd	km/h 0.1	10 Hz
CC03	<input checked="" type="checkbox"/>	Gear	Gear	gear	10 Hz
CC04	<input checked="" type="checkbox"/>	Water Temp	Water Temp	C 0.1	10 Hz
CC05	<input checked="" type="checkbox"/>	Head Temp	Head Temp	C 0.1	10 Hz
CC06	<input checked="" type="checkbox"/>	Exhaust Temp	Exhaust Temp	C 0.1	10 Hz
CC07	<input checked="" type="checkbox"/>	Oil Temp	Oil Temp	C 0.1	10 Hz
CC08	<input checked="" type="checkbox"/>	Oil Press	Oil Pressure	bar 0.01	10 Hz
CC09	<input checked="" type="checkbox"/>	Brake Press	Brake Press	bar 0.1	10 Hz
CC10	<input checked="" type="checkbox"/>	Throttle Pos	Pct Throttle Load	% 0.01	10 Hz
CC11	<input checked="" type="checkbox"/>	Brake Pos	Pct Brake Load	% 0.01	10 Hz
CC12	<input checked="" type="checkbox"/>	Clutch Pos	Percent	% 0.01	10 Hz
CC13	<input checked="" type="checkbox"/>	Steering Pos	Steering Pos	deg 0.1	10 Hz
CC14	<input checked="" type="checkbox"/>	Lambda	Lambda	lambda 0.01	10 Hz
CC15	<input checked="" type="checkbox"/>	Lateral Acc	Lateral Accel	g 0.01	10 Hz
CC16	<input checked="" type="checkbox"/>	Inline Acc	Inline Accel	g 0.01	10 Hz
CC17	<input checked="" type="checkbox"/>	Fuel Level	Pct Fuel Level	% 0.01	10 Hz
CC18	<input checked="" type="checkbox"/>	Battery Voltage	Voltage	mV	10 Hz
CC19	<input checked="" type="checkbox"/>	Vertical Acc	Vertical Accel	g 0.01	10 Hz

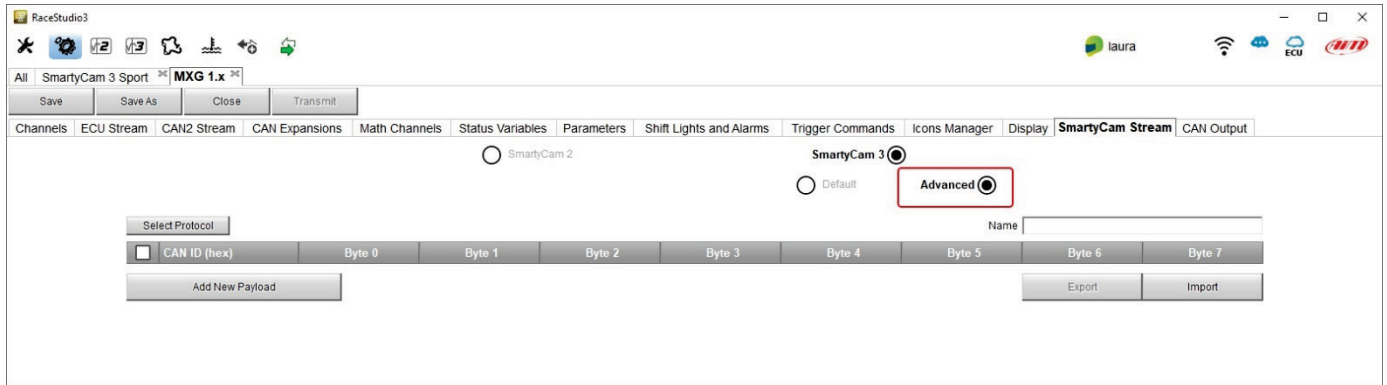
If you wish to transmit a different set of information, you may do as follows:

- Configure your Logger in order to transmit a different SmartyCam Stream
- Select the desired SmartyCam Stream in SmartyCam 3 configuration

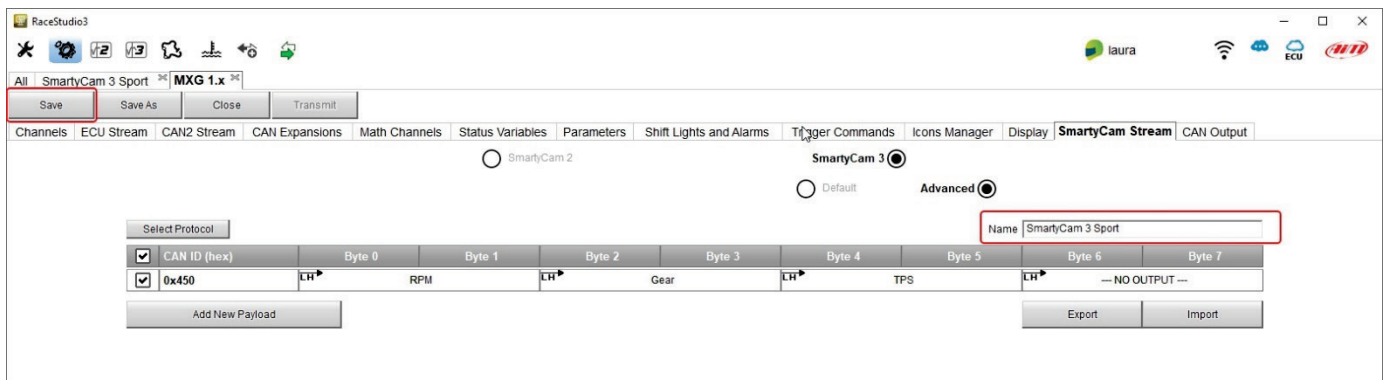


Follow the steps shown in the following figures:

- while configuring AiM logger select “Advanced” option in SmartyCam Stream layer.



- Create your desired Stream, defining the required IDs and fields
- Name the protocol and save it







- Once the Logger configuration saved, you may import the protocol in SmartyCam 3 configuration and use the channels as required.

**Please, note that ALL data transmitted to SmartyCam3 are stored as metadata directly in the .mp4 file in order to be analysed by RaceStudio3 Analysis**

Enabled Channels (Max: 80)

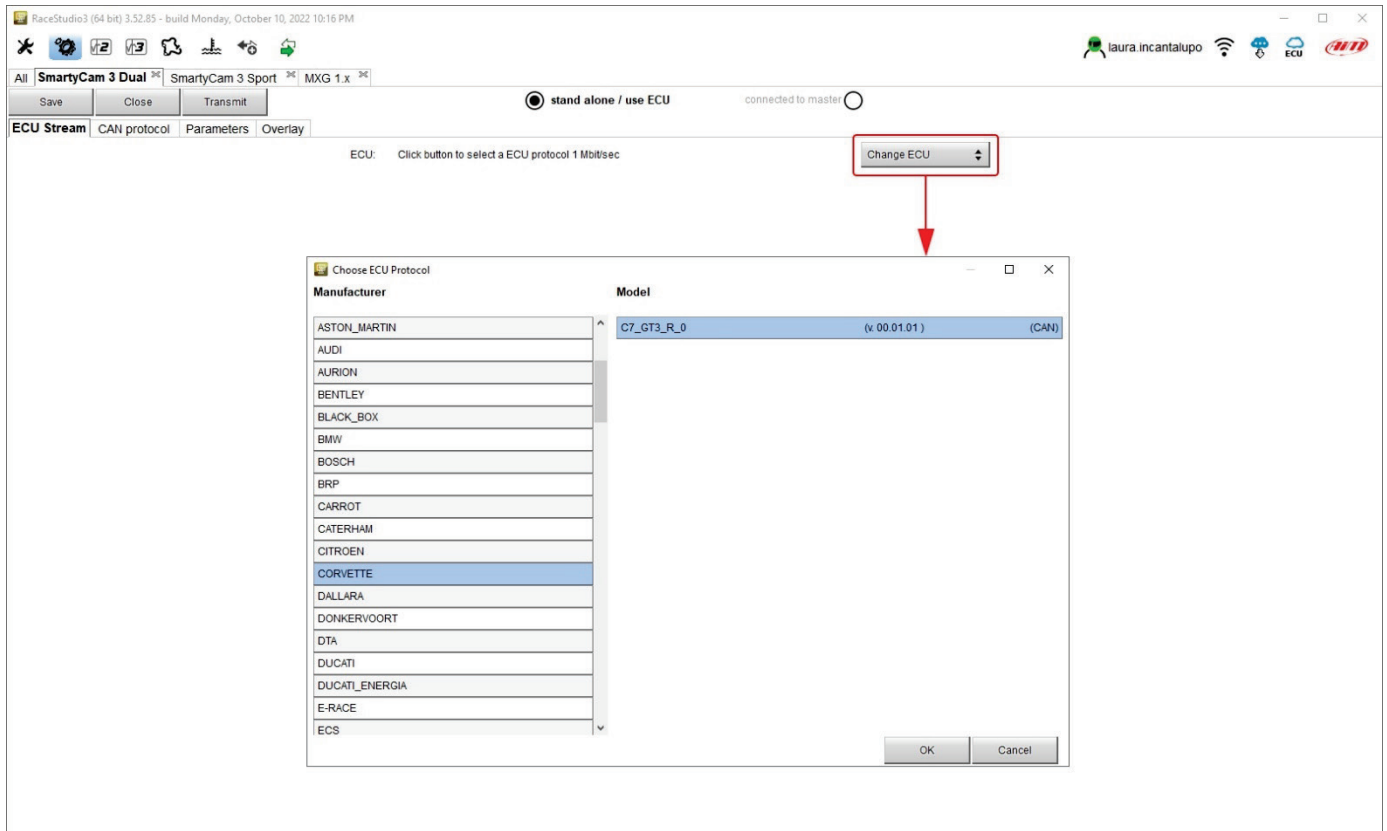
ID	✓	Name
CC01	✓	Engine R
CC02	✓	Speed
CC03	✓	Gear
CC04	✓	Water Temp
CC05	✓	Head Temp
CC06	✓	Exhaust Temp
CC07	✓	Oil Temp
CC08	✓	Oil Press
CC09	✓	Brake Press
CC10	✓	Throttle Pos
CC11	✓	Brake Pos
CC12	✓	Clutch Pos
CC13	✓	Steering Pos
CC14	✓	Lambda
CC15	✓	Lateral Acc
CC16	✓	Inline Acc
CC17	✓	Fuel Level
CC18	✓	Battery Voltage
CC19	✓	Vertical Acc
CC20	✓	Logger Temp

Protocol name	Configuration
SmartyCam 3 Sport	MXG 1.x

OK Cancel

### 8.1.5 – ECU Stream (all SmartyCam 3 except for SmartyCam 3 Sport)

**SmartyCam 3 Dual, SmartyCam3 GP, SmartyCam 3 GP Pro** and **SmartyCam 3 Corsa** feature a second CAN protocol that allows the user to set the ECU Stream of a wide number of supported ECUs. At the very first configuration “ECU Stream” tab prompts the panel to set as shown here below. To change it in a second moment press “Change ECU” button and the panel will be prompted again.

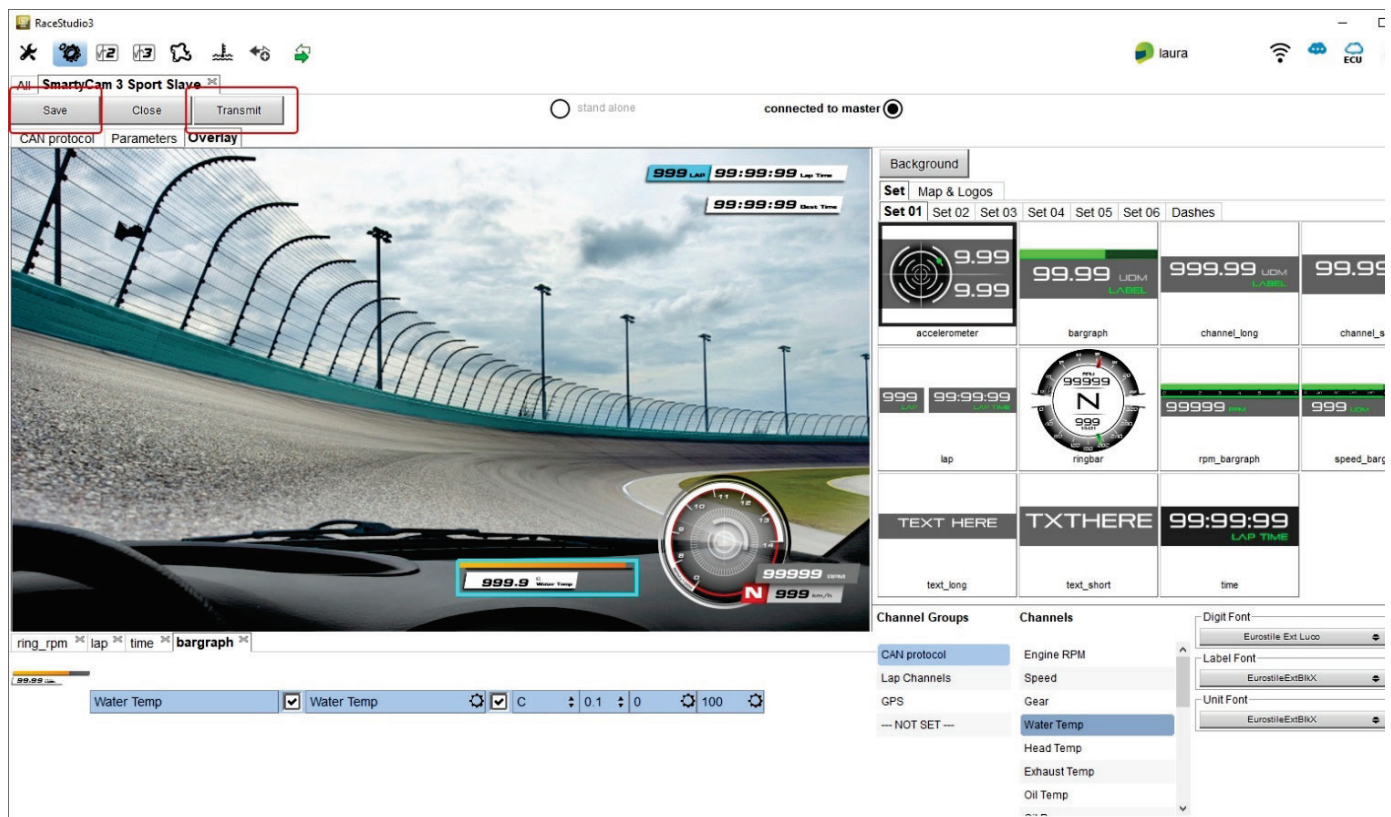


## 8.2 – Loading the configuration to SmartyCam 3

All cameras allow the transmission of the configuration through the (Micro) SD card. **SmartyCam 3 Dual**, **SmartyCam 3 GP**, **SmartyCam 3 GP Pro** and **SmartyCam 3 Corsa** allow the transmission of the configuration through the USB-C connection too. **SmartyCam 3 Dual** allows the transmission of the configuration through Ethernet/USB-C connection too.

### Configuration transmission through (Micro) SD Card (SmartyCam 3 all models)

- Save the configuration pressing “Save” button top left of the page
- insert a (Micro) SD in SmartyCam3 slot
- remove the (Micro) SD from SmartyCam3 slot and insert it the PC slot
- press “Transmit” button; the software recognizes the (Micro) SD and loads the configuration
- remove the (Micro) SD from the PC slot and insert it in SmartyCam3 slot
- follow this path: “MENU” -> “UPDATE” -> “CONFIGURATION” and load the configuration to SmartyCam 3



### Configuration transmission through Ethernet or USB-C connection

**SmartyCam 3 Dual**, **SmartyCam 3 GP**, **SmartyCam 3 GP Pro** and **SmartyCam 3 Corsa** allow you to transmit the configuration to the camera using the USB-C connection while **SmartyCam 3 Dual** also allows transmission through the Ethernet connection. To do so, with the camera switched on and connected to the PC:

- Press “Save” top left on the software view
- Press “Transmit” and the camera will receive the configuration
- Follow this path on SmartyCam 3 Dual: “MENU” -> “UPDATE” -> “CONFIGURATION” and the configuration is loaded to SmartyCam 3.

### 8.3 – Track Management

Track Manager is the software section dedicated to tracks management. Here you can create and delete new tracks, modify the settings as well as load them to the Card or straight to SmartyCam 3 (except for SmartyCam 3 Sport). Press “Tracks” on Race Studio 3 top left keyboard.



The main page is divided in three columns: on the **Left**:

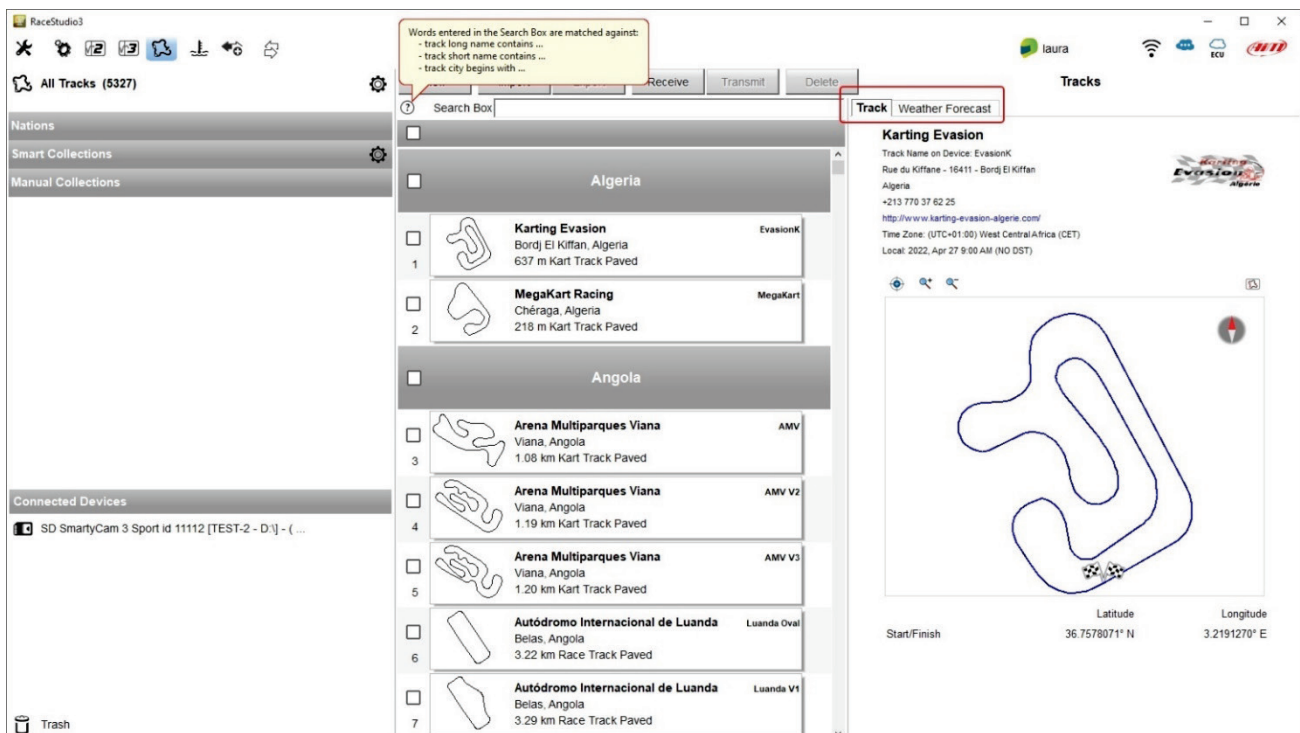
- on top the filters to collect the tracks; by default all tracks are shown – “All Tracks (5327)” in the image below. The filters are:
  - nations: select the nation you want to see the tracks of
  - smart collections: clicking the setting icon a panel that allows to select continent, nation, circuit type and road surface is prompted; select the criteria you wish and name the collection specifying the used filter if you like it
  - manual: clicking the setting icon a new collection panel is prompted: name it and drag and drop the tracks in it
- bottom the connected devices in the image SmartyCam 3 Sport “SmartyCam 3 ID 4111112 [TEST-2 – D:]”

The column **in the middle** shows:

- on top a fast search bar, that allows to select the tracks which satisfy personal research criteria; pressing “?” a tooltip explains the research criteria (highlighted in red below); to say:
  - track long name contains...: long name is the name in bold in each track box
  - track short name contains...: short name is the track name shown top right of each track box
  - track city begins with...: is the name of the city the track is located in
- all the tracks listed in Race Studio 3 database. You can update your track database at start up if a connection to the Internet is available.

The column on the **Right** shows two tabs:

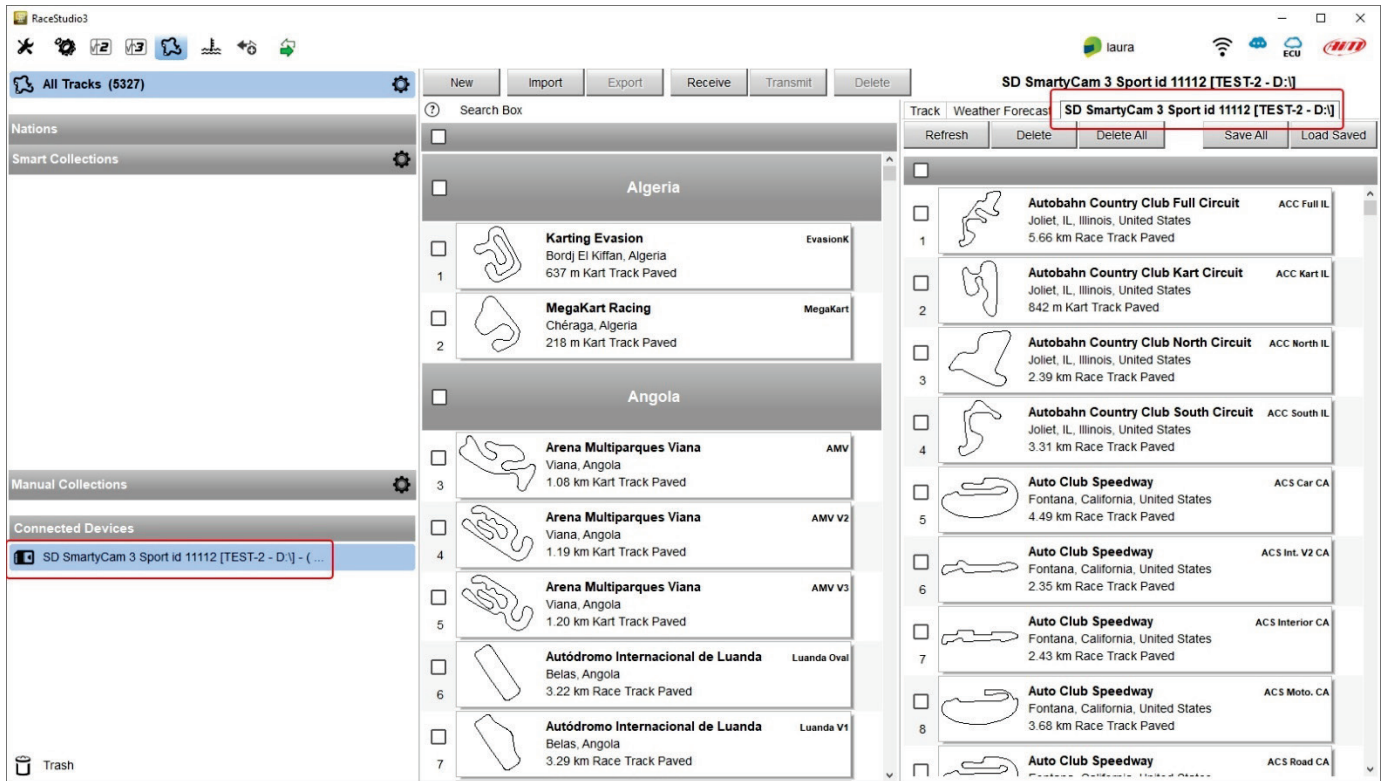
- the data sheet of the track you are mousing over and
- its weather forecast if available.





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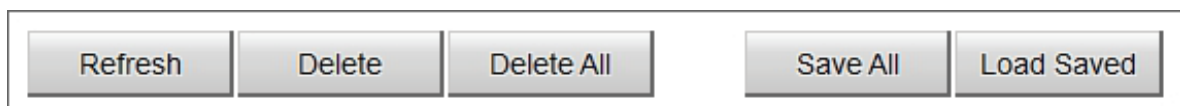
SmartyCam 3 (or its card) is shown left bottom of the page; clicking it an additional tab is prompted in the right column and tracks stored in the camera or in the (Micro) SD are shown. Tracks created by the user are labelled "User"; any difference among tracks stored and the same track included in AiM database is notified.



The page keyboards are for:



- **New:** create a new track
- **Import:** import one or more tracks stored in SmartyCam 3 or on another external device
- **Export:** export one or more tracks to a specific PC folder or to another peripheral device
- **Receive:** receive from SmartyCam 3 the tracks created by the user (if no device is connected the button is disabled)
- **Transmit:** transmit one or more tracks from the PC to SmartyCam 3 (if no device is connected the button is disabled)
- **Delete:** delete one or more tracks from Race Studio 3 Database



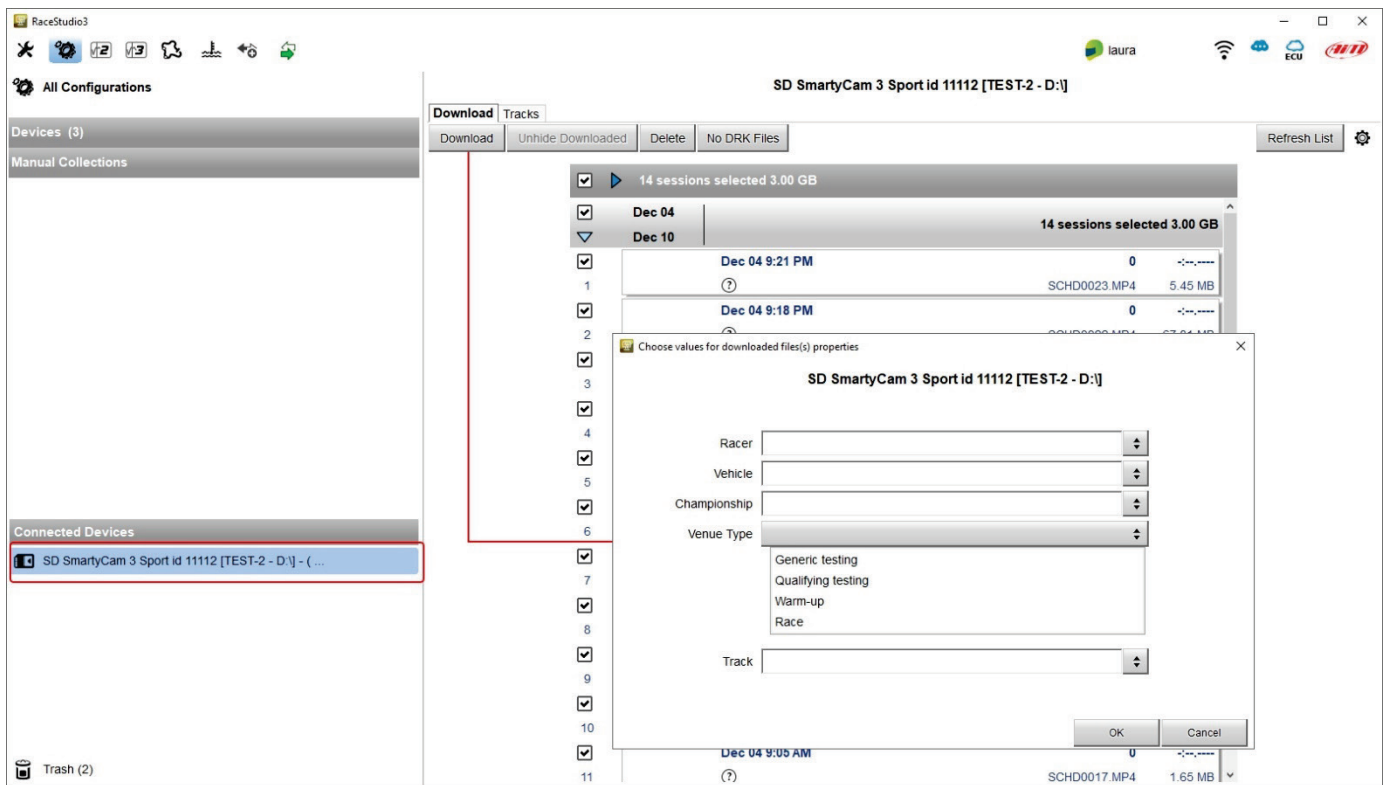
- **Refresh:** refresh the track list stored in SmartyCam 3
- **Delete:** delete one or more tracks from SmartyCam 3 card
- **Delete All:** delete all tracks stored in SmartyCam 3 card
- **Save all:** save all the tracks stored in SmartyCam 3 card creating creates a zip file that can be loaded to another AiM device
- **Load Saved:** load the tracks previously saved in SmartyCam 3 card.

## 8.4 – Video Management

Once a track session is over it is possible to review SmartyCam 3 video on a PC using the (Micro) SD (**all cameras**), the USB-C connection (**all SmartyCam3 except for SmartyCam 3 Sport**) or the Ethernet connection (**SmartyCam 3 Dual** only)

To manage video **using the (Micro) SD (all cameras)**:

- remove card from the camera
- place it in the PC slot and manage it as an USB peripheral
- run Race Studio3 software
- click on the card bottom left of the software page
- the list of the video stored in the card is prompted right of the page
- press “Download” button on the top keyboard
- fill in the panel that is prompted
- press “OK”



As said before **SmartyCam 3 Dual**, **SmartyCam 3 GP**, **SmartyCam 3 GP Pro** and **SmartyCam 3 Corsa** don't need to remove the SD from the camera slot. Using the USB-C cable or the Ethernet port (**SmartyCam 3 Dual** only) you can download the video file directly from the connected camera.

With SmartyCam switched on and connected simply press “Download” button and the file are downloaded on your PC.

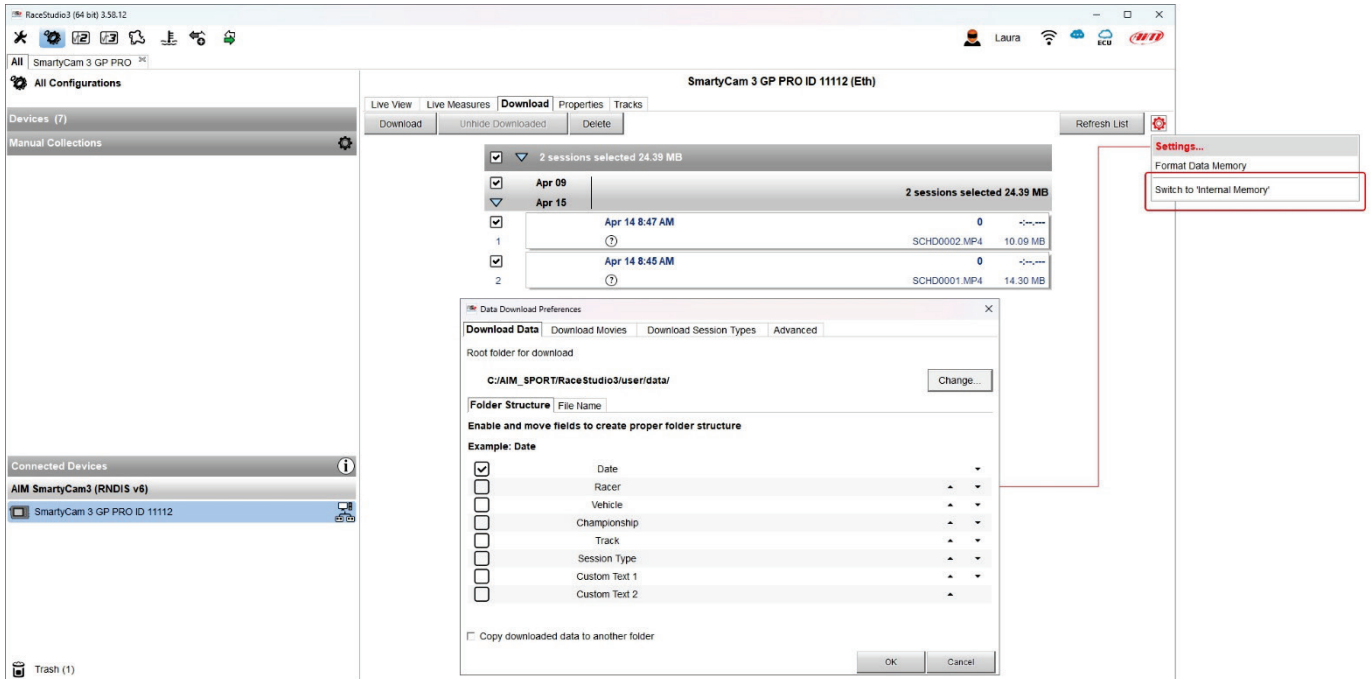




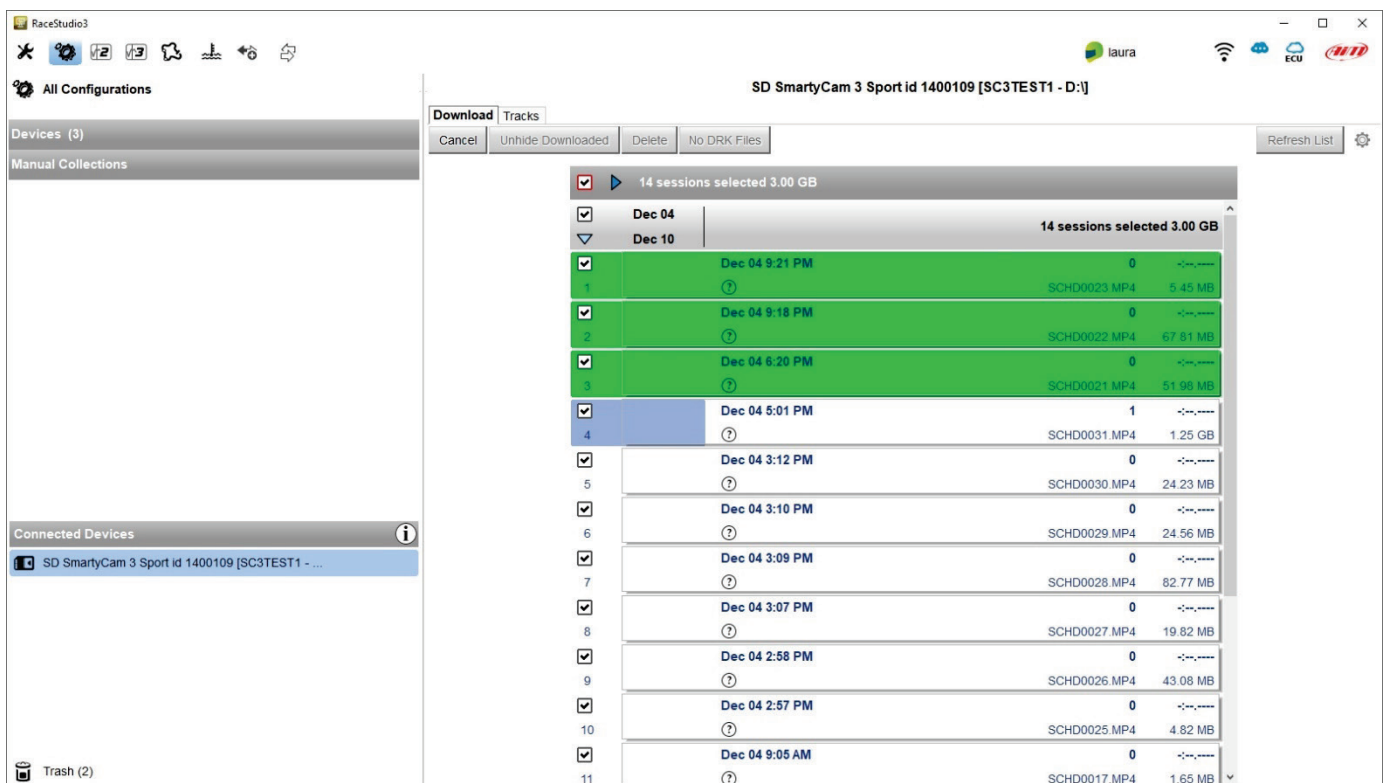
# User Guide

Right of download view is a setting icon (in red here below). Clicking it a menu panel is prompted. Here you can:

- manage download settings
- format the (Micro)SD card
- switch to internal memory (**SmartyCam 3 GP Pro only**)



Pressing "download" button top of the view video download starts.



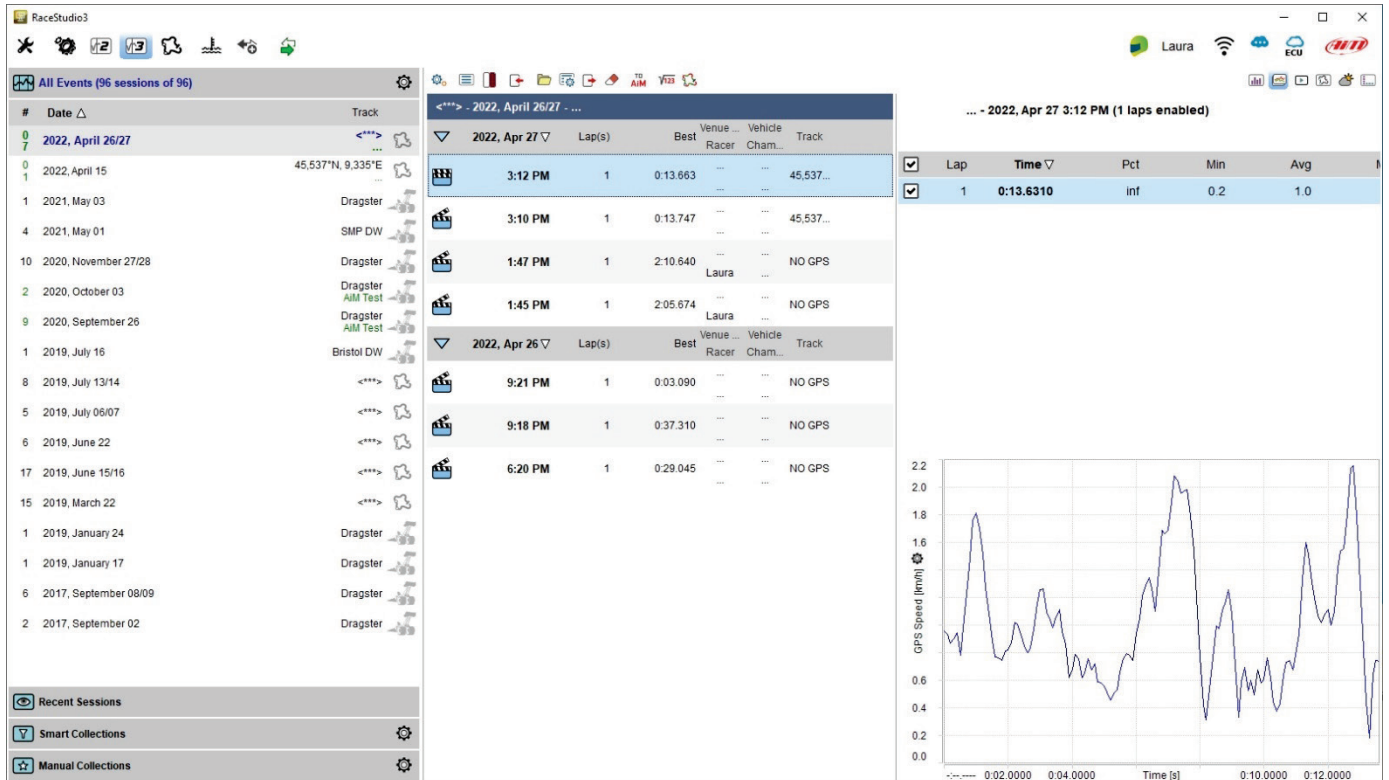




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When all files have been downloaded run Race Studio3 Analysis and the video just downloaded are prompted in the central column of the page. Click on any video to start watching it.

Please refer to RaceStudio3 Analysis user manual for any further information concerning the software working mode.





## 9 – Technical specifications and drawings

### 9.1 – Technical Specifications

#### SmartyCam 3 Sport

Video format	H264 – 1920x1080 pixels at 30 fps
Display resolution	128x128 pixels
Lens	Low distortion camera lens
CMOS Sensor	Global shutter
Field of view	67° or 84°
External power	9-15V
Supported (Micro) Card (not included)	up to 2Tb
Connector	1 Binder 712 female
Working temperature range	-10°C/+50°C
Auto power ON	Yes
Auto power OFF	Yes
Auto Start/Stop recording	Yes
Body	Nylon fiberglass charged and coated aluminium
Dimensions	79.9x54x46.5
Weight	200g battery included
Waterproof	IP65

#### SmartyCam 3 Dual

Video format	H264 – 1920x1080 pixels at 60 fps
Display resolution	2,4" 240x320 pixels
Lens	Low distortion camera lens
CMOS Sensor	Global shutter
Field of view	67°, 84° or 120
Internal battery	rechargeable lithium battery
Video Output	3G-SDI
External power	9-15V
Supported SD Card (not included)	up to 2Tb
Connectors	1 Deutsch 22 pins 1 SMA SDI Video Out 2 SMA bullet connection 1 USB-C
Working temperature range	-10°C/+50°C
Auto power ON	Yes
Auto power OFF	Yes
Auto Start/Stop recording	Yes
Body	Aluminium
Dimensions	Main Unit 154.4x109.6x45mm bullet cameras diameter 24x48.2mm
Weight	Main unit 800g battery included bullet 45g each
Waterproof	IP65



## SmartyCam 3 GP

Video format	H264 – 1920x1080 pixels at 60 fps
Display resolution	2,4" 240x320 pixels
Lens	Low distortion camera lens
CMOS Sensor	Global shutter
Field of view	67°, 84° or 120
Internal battery	rechargeable lithium battery
Video Output	3G-SDI
External power	9-15V
Supported SD Card (not included)	up to 2Tb
Connectors	1 Binder 7 pins 1 Binder 5 pins 1 SMA bullet connection 1 SMA SDI video output connection 1 USB-C
Working temperature range	-10°C/+50°C
Auto power ON	Yes
Auto power OFF	Yes
Auto Start/Stop recording	Yes
Body	Aluminium
Dimensions	Main Unit 120.8x80.2x30.9mm bullet camera diameter 24x46 mm (120° lens) bullet camera diameter 24x41mm (67-84° lens) Main unit 320g battery included bullet 45g each
Weight	IP65
Waterproof	

## SmartyCam 3 GP Pro

Video format	H264 – 1920x1080 pixels at 60 fps
Display resolution	2,4" 240x320 pixels
Lens	Low distortion camera lens
CMOS Sensor	Global shutter
Field of view	67°, 84° or 120
Internal battery	rechargeable lithium battery
Video Output	3G-SDI
External power	9-15V
Supported SD Card (not included)	up to 2Tb
Internal EMMC	64GB
Connectors	2 AS micro Xtra lite HE 5ways Deutsch 2 SMA female 1 USB-C
Working temperature range	-10°C/+50°C
Auto power ON	Yes
Auto power OFF	Yes
Auto Start/Stop recording	Yes
Body	Aluminium
Dimensions	Main Unit 120.8x80.2x30.9mm bullet camera diameter 24x46 mm (120° lens) bullet camera diameter 24x41mm (67-84° lens) Main unit 320g battery included bullet 45g each
Weight	IP65
Waterproof	



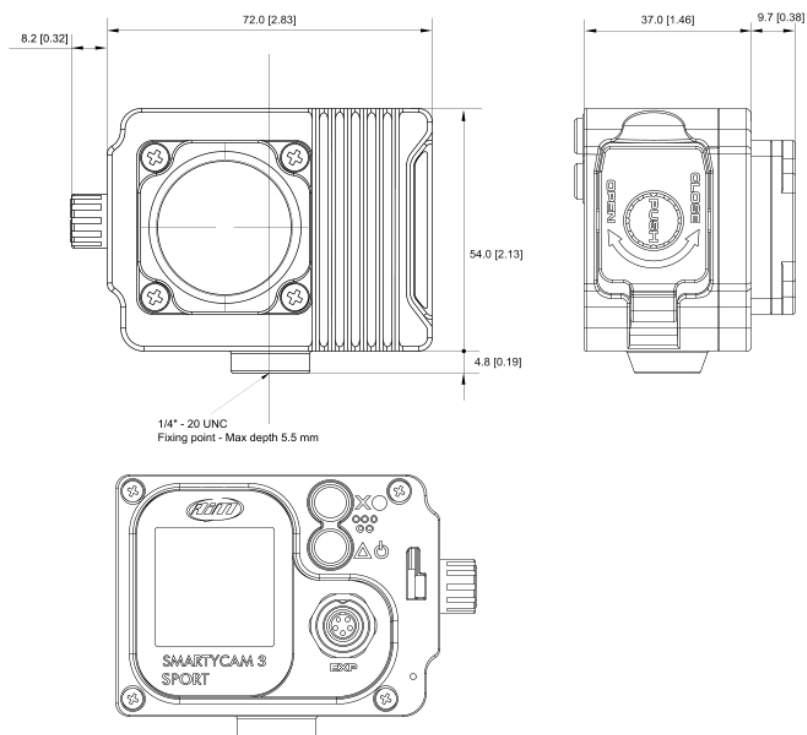
### **SmartyCam 3 Corsa**

Video format	H264 – 1920x1080 pixels at 60 fps
Display resolution	128x128 pixels
Lens	Low distortion camera lens
CMOS Sensor	Global shutter
Field of view	67° or 84°
Internal battery	rechargeable lithium battery
External power	9-15V
Supported SD Card (not included)	up to 2Tb
Connectors	1 Binder 7 pins 2 Binder 5 pins 1 USB-C
Working temperature range	-10°C/+50°C
Auto power ON	Yes
Auto power OFF	Yes
Auto Start/Stop recording	Yes
Body	Aluminium
Dimensions	102.2x63x46.5mm
Weight	280g battery included bullet 45g each
Waterproof	IP65

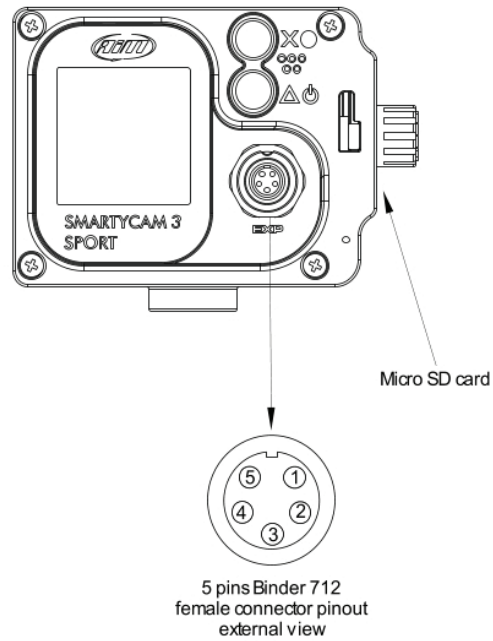
## 9.2 – Drawings

### 9.2.1 – SmartyCam 3 Sport

SmartyCam 3 Sport dimensions in mm [inches]



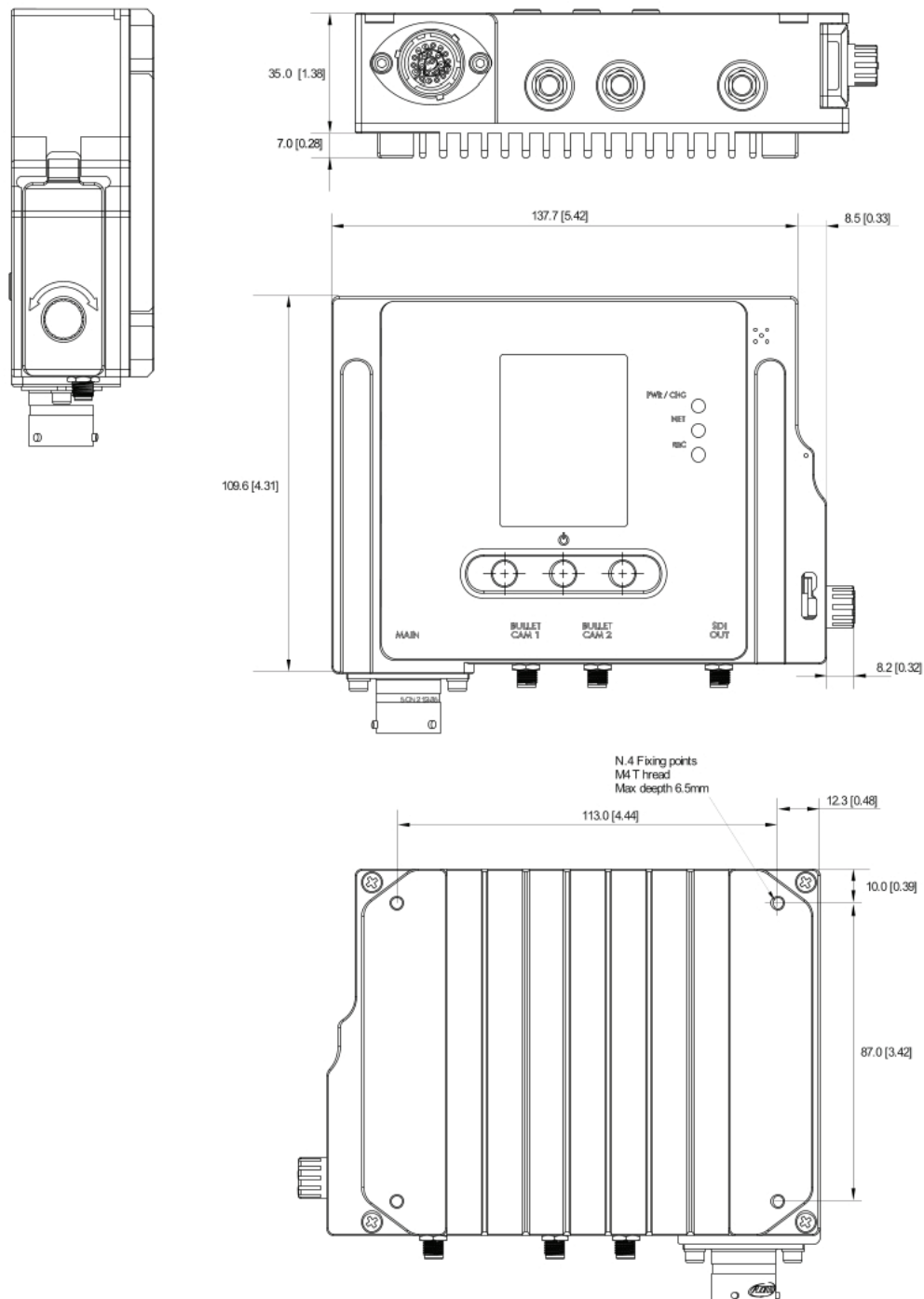
## SmartyCam 3 Sport pinout



EXP	
1	CAN+
2	GND
3	+Vb out
4	CAN-
5	+Vb ext

## 9.2.2 – SmartyCam 3 Dual

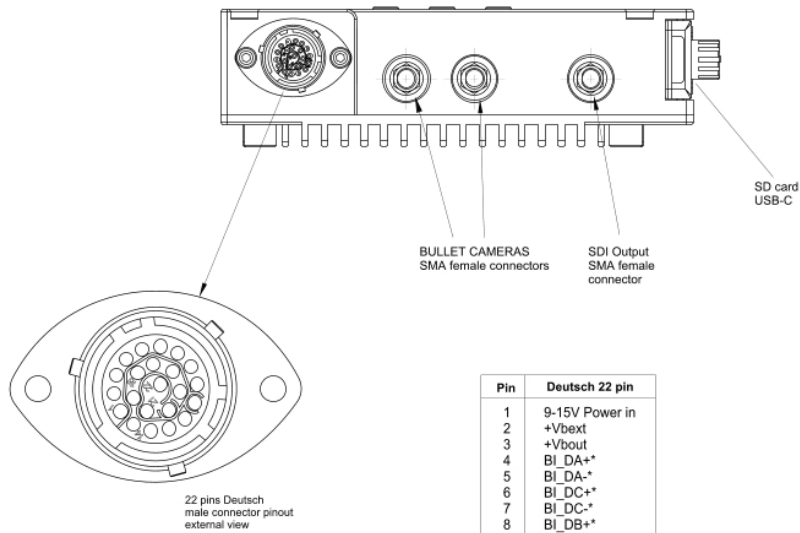
### SmartyCam 3 Dual Dimensions in mm [inches]







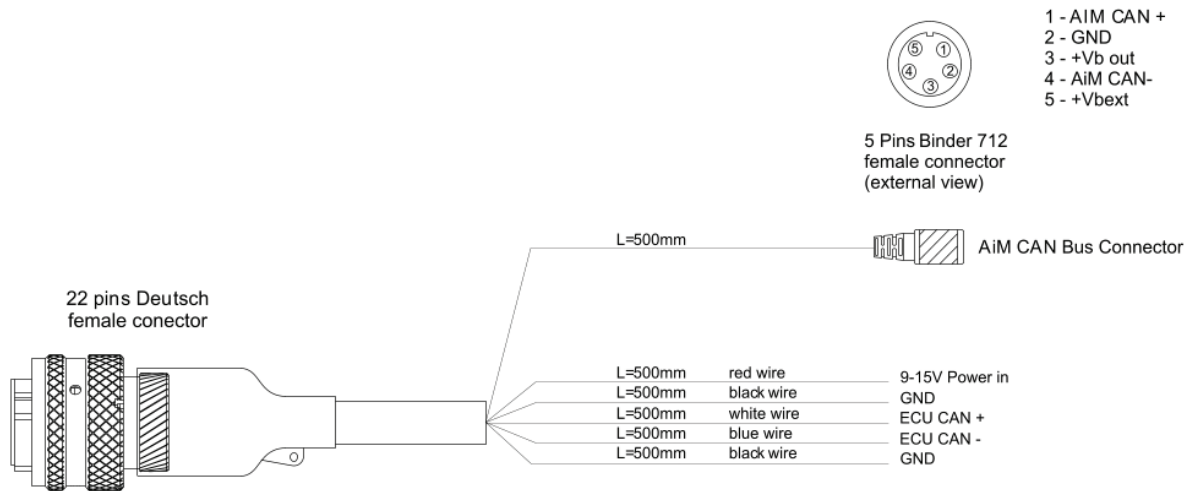
## SmartyCam 3 Dual pinout



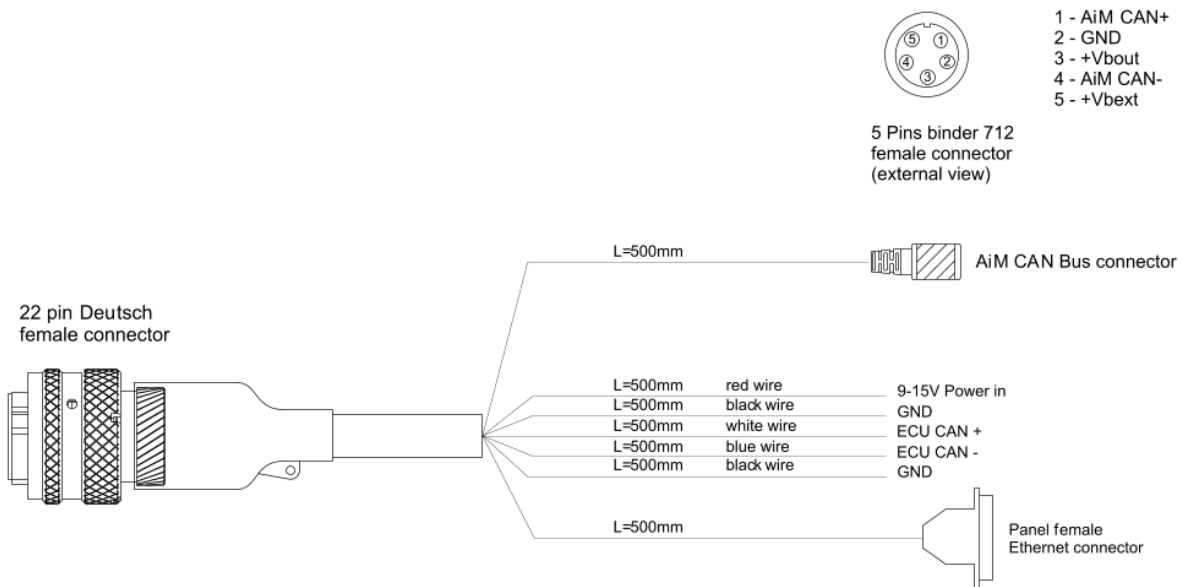
Pin	Deutsch 22 pin
1	9-15V Power in
2	+Vbext
3	+Vbout
4	BI_DA+*
5	BI_DA-*
6	BI_DC+*
7	BI_DC-*
8	BI_DB+*
9	BI_DB-*
10	GND
11	GND
12	Not connected
13	ECU CAN-
14	Ext MIC-
15	Ext MIC+
16	AIM CAN-
17	AIM CAN+
18	BI_DD-*
19	BI_DD+*
20	GND
21	ECU CAN+
22	Not connected

\* Ethernet

## SmartyCam 3 Dual Standard harness (part number V02584300)

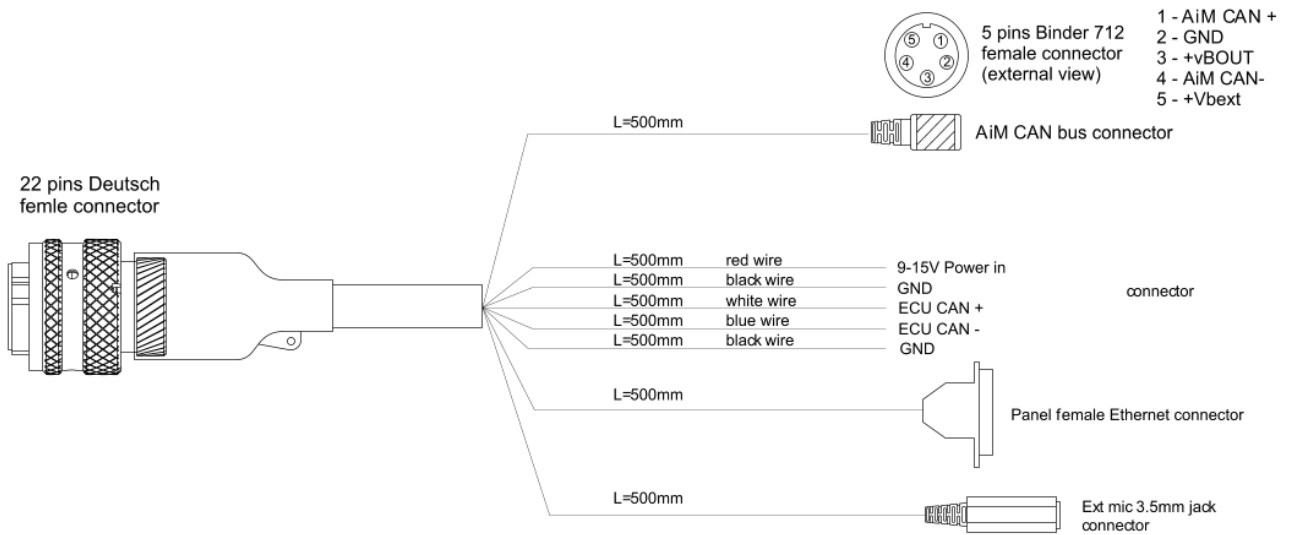


## SmartyCam 3 Dual Standard+Ethernet harness (part number V02584350)



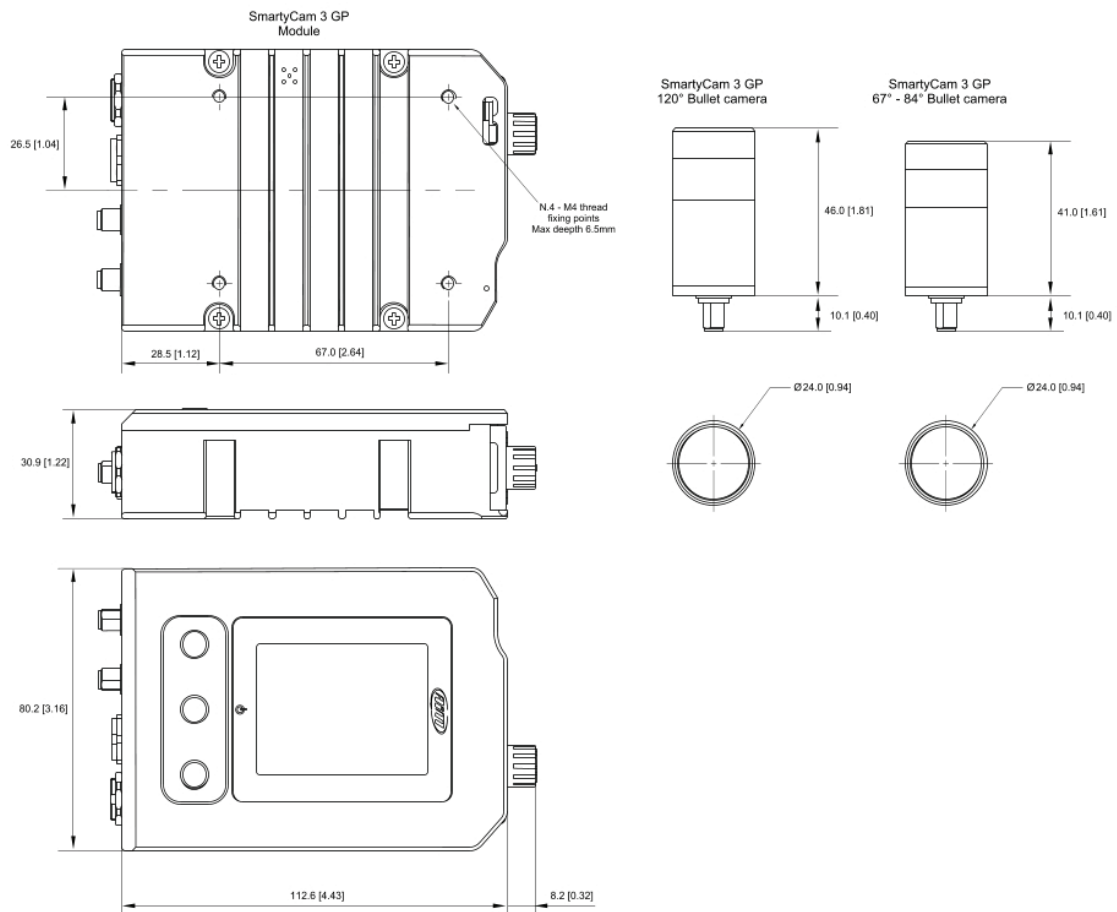


## SmartyCam 3 Dual Full harness (part number V02584290)

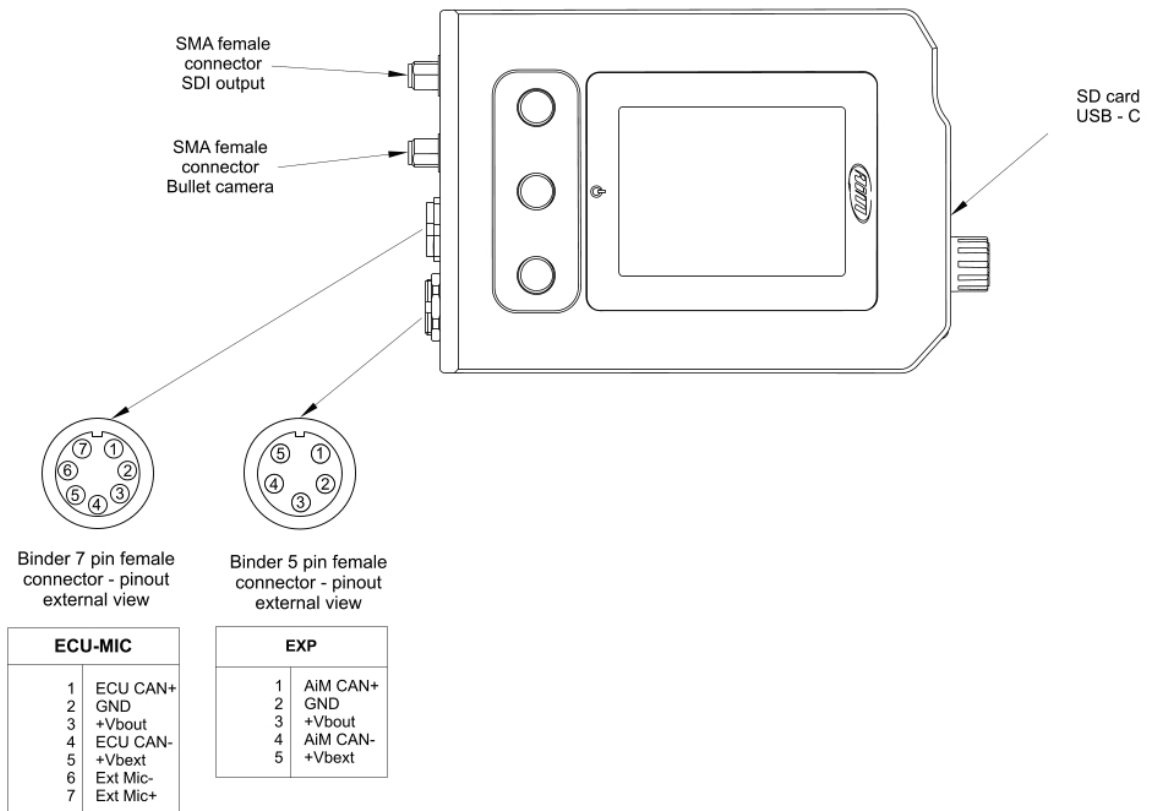


## 9.2.3 – SmartyCam 3 GP

### SmartyCam 3 GP dimensions in mm [inches]

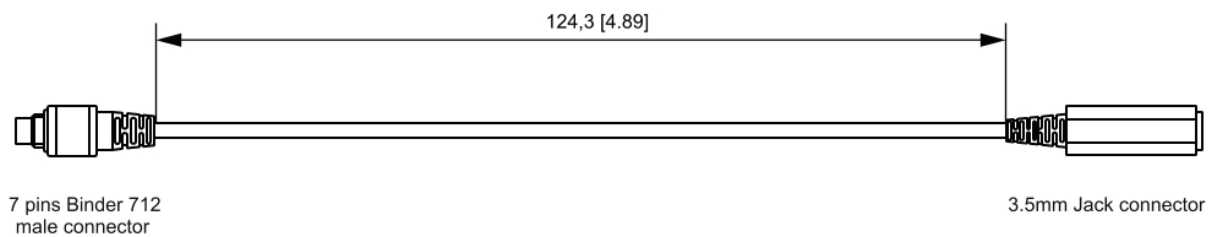


## SmartyCam 3 GP Pinout



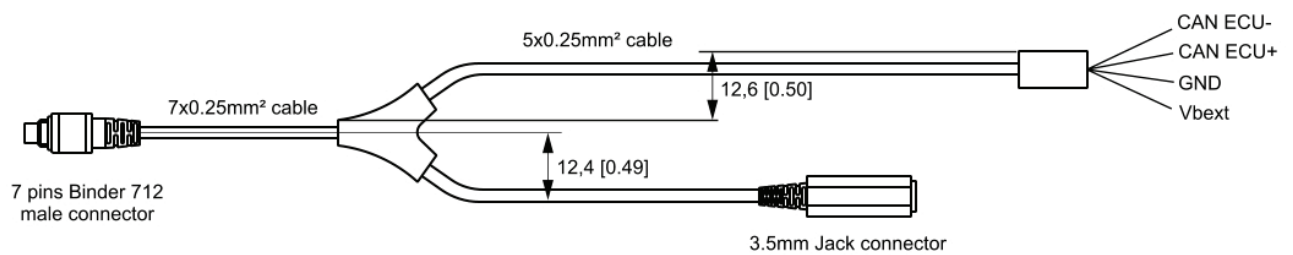
**SmartyCam 3 GP cable with Jack for external microphone (part number V02584040)**

Cable with Jack for external microphone for SmartyCam



## SmartyCam 3 GP cable with CAN adapter, external power and jack for external microphone (part number V02584140)

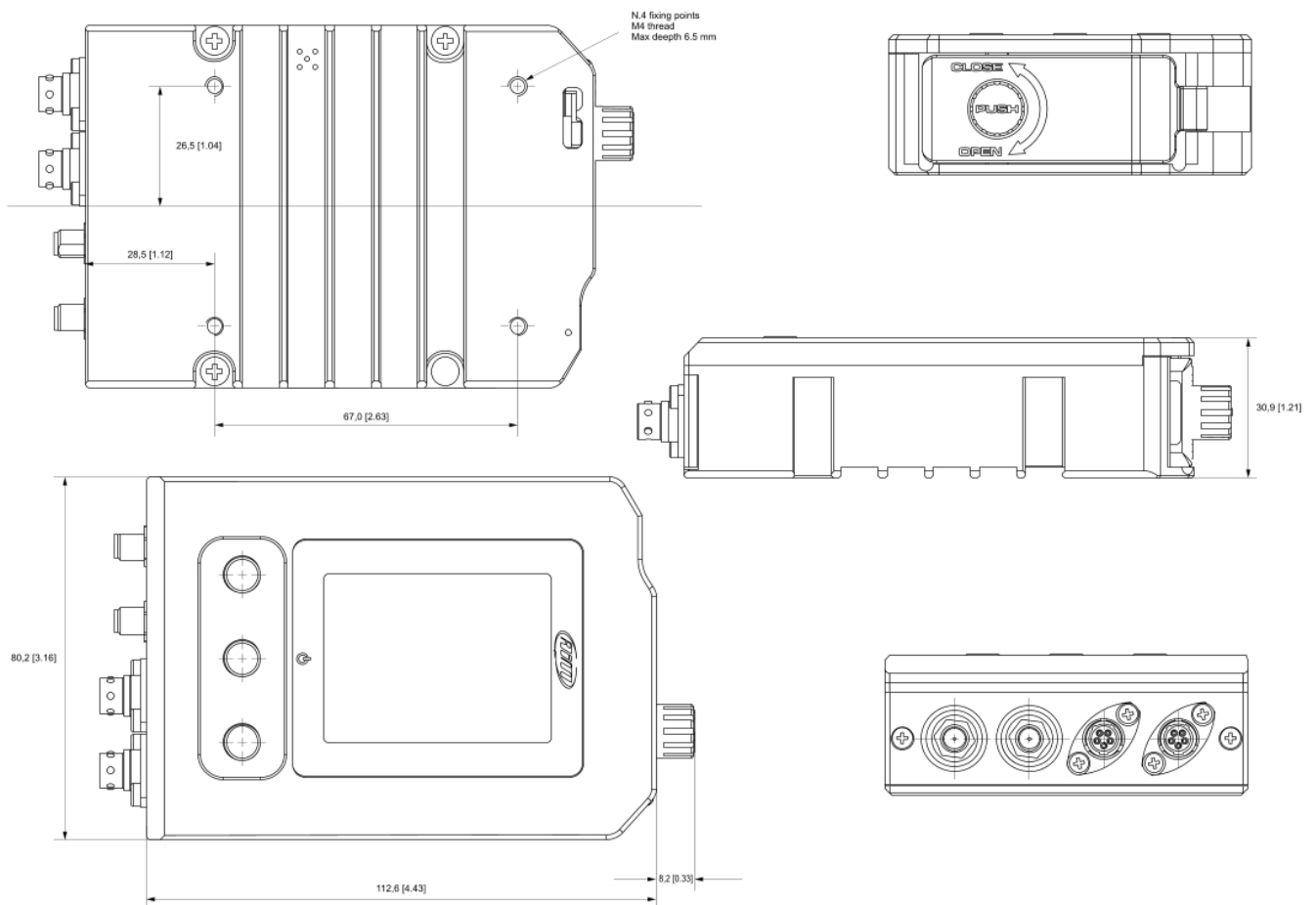
### CAN ECU + Jack for external microphone for SmartyCam



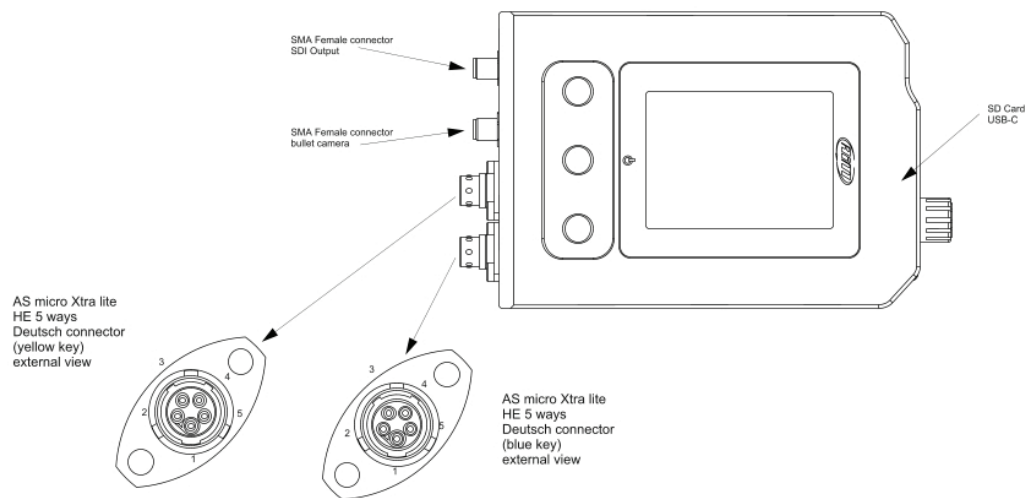


## 9.2.4 – SmartyCam 3 GP Pro

### SmartyCam 3 GP Pro dimensions in mm [inches]



## SmartyCam 3 GP Pro pinout

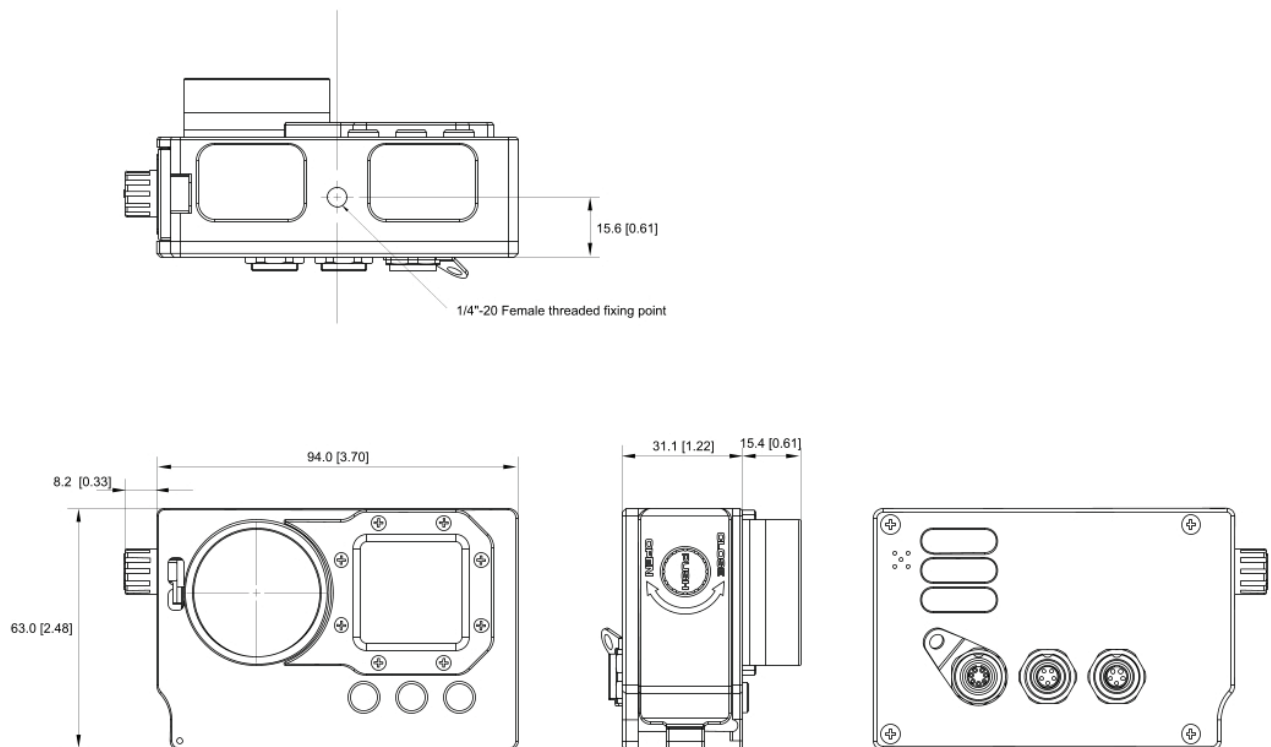


ECU	
1	CAN ECU+
2	GND
3	+Vbout
4	CAN ECU-
5	Vbext

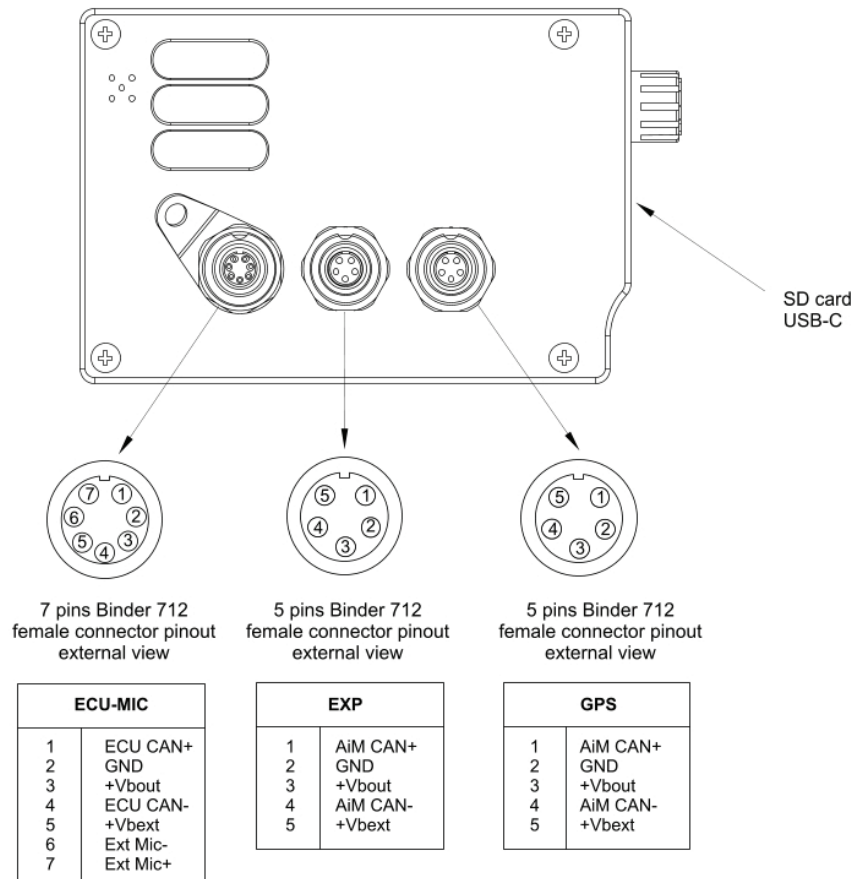
EXP	
1	CAN AiM+
2	GND
3	+Vbout
4	CAN AiM-
5	Vbext

## 9.2.5 – SmartyCam 3 Corsa

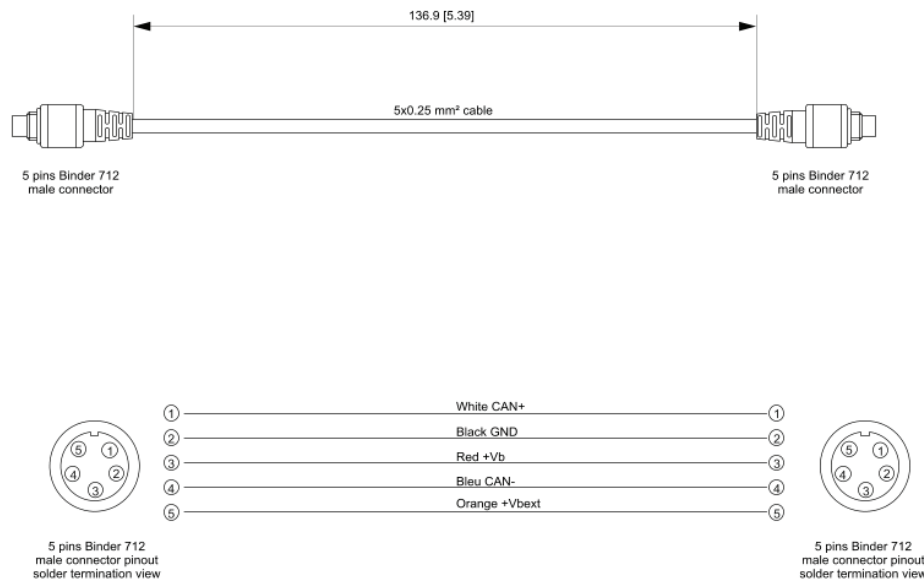
### SmartyCam 3 Corsa dimensions in mm [inches]



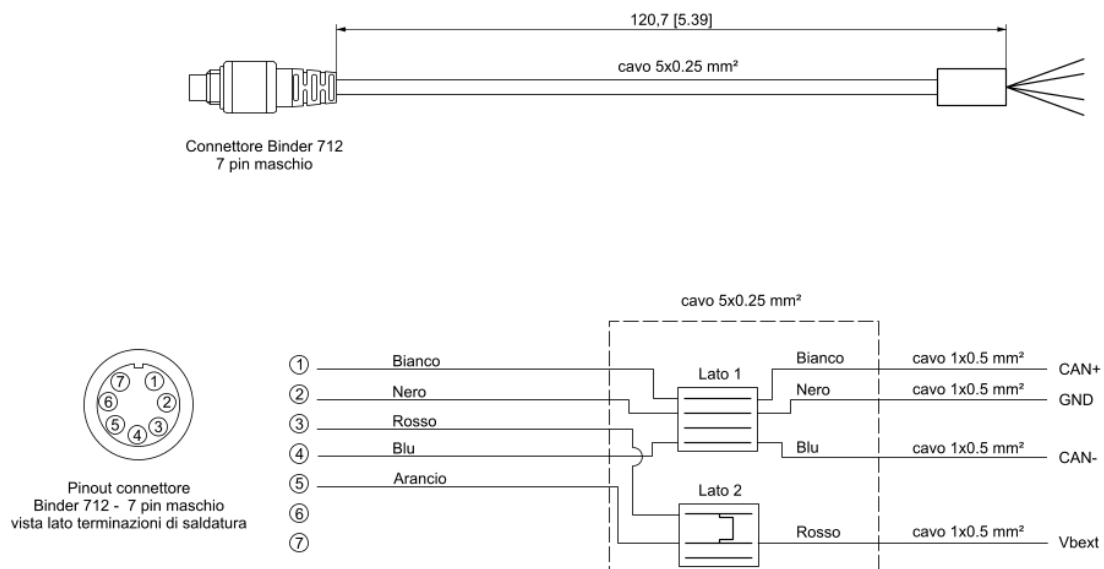
## SmartyCam 3 Corsa Pinout



## CAN cable for SmartyCam 3 Corsa (part number V02.554.820)

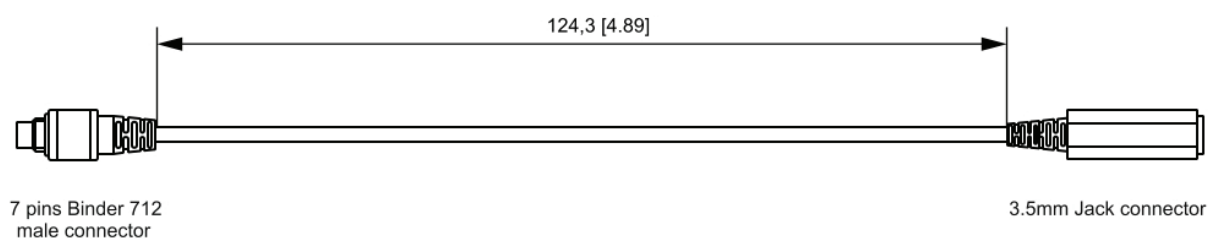


## CAN+ECU cable for SmartyCam 3 Corsa (part number V02.566.930)



**SmartyCam 3 GP cable with Jack for external microphone (part number V02584040)**

Cable with Jack for external microphone for SmartyCam



## SmartyCam 3 GP cable with CAN adapter, external power and jack for external microphone (part number V02584140)

### CAN ECU + Jack for external microphone for SmartyCam

