**SmartyManager** 

## User manual







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## **Chapter 1 – Installation**

**SmartyManager** is the software suite specifically designed and developed by AIM to configure **SmartyCam**. **SmartyManager** allows users to customize the appearance of their data and video integration.

### **1.1 – Software installation**

To install **SmartyManager** software onto your computer, please insert the included setup disk into the CD drive and save the **SmartyManager** executable file on the PC Desktop. Should the disk be missing, visit <u>www.SmartyCam.com</u> to download a complimentary copy. Once saved, double-click the setup icon (shown below) to start software installation.



SmartyManager Setup Wizard will guide the user through the required software setup.

### **1.2 – Driver installation**

Note: in order to guarantee optimal device performance, use only USB 2.0 ports.

Upon successful installation of **SmartyManager** software, USB driver installation may start. USB Driver is the software that makes **SmartyCam** communicating with the PC.

To begin USB driver installation process, connect **SmartyCam** to the PC with the provided USB cable. The computer should automatically recognize that a USB device has been connected (Figure below). Click on **Found new hardware** prompt, if the Found New Hardware Wizard does not appear automatically.

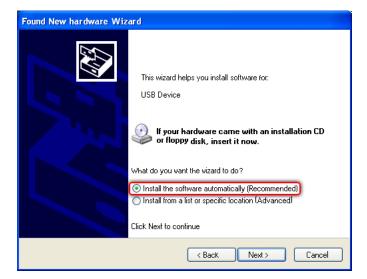
🔅 Found new hardware	×
USB Device	

This window appears





# Select **No**, **not this time** and click **Next** >. This window appears.



Select "Install the software automatically (Recommended)" and click "Next>".

USB Driver files will now be loaded onto the Pc. At the end of the process the camera can be configured.



## **Chapter 2 – Quick Guide**

### 2.1 – Different working modes

It is first of all important to remember that **SmartyCam** can be used in three different ways:

- standalone: with no connection with any AIM system;
- connected to the vehicle ECU through AIM ECU Bridge or, if the vehicle has no ECU or has an ECU that does not communicate through CAN/RS232 or K Line connected through RPM Bridge to the coil low voltage output;
- connected to an AIM dash or logger (MXL Strada/Pista/Pro05, EVO3 Pro/Pista, MyChron4).

In **SmartyCam** user manual quick guide is a clear explanation of these three working modes; that document includes also explanation of some custom setting that are needed. Here is assumed that these custom setting has already been performed.

### 4.2 – Configuring SmartyCam and AIM devices connected to it

Some very simple but necessary preliminary operations are to be performed to use **SmartyCam**:

**SmartyCam** is standalone:

- connect **SmartyCam** to the computer through the provided USB cable;
- run SmartyManager;
- create a new configuration or select an existing one (Paragraph 3.1);
- add/delete/modify objects and set the related parameters;
- transmit the configuration to **SmartyCam** (Paragraph 3.5);

**SmartyCam** is connected to other AIM systems (ECU Bridge, RPM Bridge, MXL Strada/Pista/Pro05, EVO3 Pro/Pista, EVO4, MyChron4).

Once teh operations below explained are over it is necessary to configure the AIM system so that it can transmit the required information (e.g. RPM and/or temperature value, brake/accelerator pedal position, etc..). It is thereby necessary:

- if SmartyCam is connected to MyChron4 configure the logger and connect it to SmartyCam;
- if slave of an AIM device unplug **SmartyCam** from the PC and plug the device through its USB cable;
- connect **SmartyCam** to the PC through the provided USB cable;
- run Race Studio 2 (include in the CD or downloadable free of charge from www.aim-sportline.com);
- configure AIM device;
- click SmartyCam Functions setting;
- transmit the configuration to AIM device;
- connect **SmartyCam** to AIM device and power the system ON.



## **Chapter 3 – How to configure SmartyCam**

After software installation the shortcut icon shown here below appears on the PC Desktop.



#### Running the software this window appears



Click "SmartyCam Configurator".



### 3.1 – How to create a new configuration

With **SmartyManager** graphic objects that will create the video overlay can be displaced as wished.

SmartyManager beta 1.04.07 [Configuration]		6			- 🖻 🛛
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Lap Number	None	.*			

To create a new configuration:

- press "New Configuration" (1) and fill the related panel that appears with the desired name;
- right of the preview panel available graphic objects are grouped in "Sets" (2);
- double click on the desired object (3) to select it or drag and drop it in the preview area (3a);
- fill in the layer of the loaded object that appears down on the left of the software window (4);
- once all elements have been set transmit the configuration to **SmartyCam** or to the micro SD (**5**). See paragraph 3.5 for further information.



## **3.2 – How to modify or delete an existing configuration**

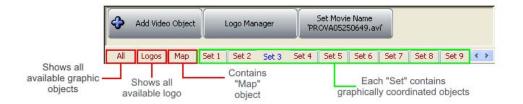
With **SmartyManager** an existing configuration can be modified/deleted:

- press "Choose configuration"/"Delete Configurations";
- a choice panel appears;
- select the configuration to modify/delete;
- press "Confirm selection"/"Delete selected configurations";

Warning: SmartyManager automatically saves each configuration. This means that any modification made will be saved upon exit; automatic undo is not possible. After exiting any change must be undone manually.

## 3.3 – How to insert track map and logos in the configuration

As shown here below, in addition to "Set" layers others are available to manage the Map and the logos to be inserted in the configuration.



#### 3.3.1 – The track map in SmartyCam overlay

Map layer allows to place the track map in **SmartyCam** overlay. It is possible to resize the track object. Please note: the track shape will fit this area. See paragraph 4.1 for further information.



#### 3.3.2 – Logo management in SmartyCam overlay

"Logo manager" button, located at the top of the Overlay Toolbox, adds/deletes/modifies custom logos and images from **SmartyManager** and thereby from **SmartyCam** overlay. Supported image formats are: .png, .jpg .bmp and .tga but "**.Png**" format is the only compatible with transparency effect.



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Pressing "Logo Manager" a panel appears:

- "Add new logo" (1a) adds an image/logo following the proper path; "Logo Settings" panel appears: fill it in and the logo/image is added to "Logos" layer: drag it in the preview area;
- "Delete selected logo" (1b) deletes the image/logo from SmartyCam overlay;
- "Modify Selected Logo" (2) resizes and renames the image/logo.



## 3.4 – How to name SmartyCam movies

Pressing "Set Movie Name" the related window appears. It allows to customizes how **SmartyCam** names each stored video. Video name has a mandatory part that is date and time of the file but the prefix can be changed. The images here below shows on the left default movie name that includes the letters "SC" (to indicate that the file was generated with **SmartyCam**) and on the right a custom prefix. Max number of allowed characters for the movie prefix is eight.

Set Movie Name         Example of He ori name           © Default Prefix [sc]         example of He ori name           © Use Custom Prefix         example of set in the set	SC11161127.avi         Set Mavie Name           SC         = SmartyCam         Fill           11         = Month         C         Defail Perfux           16         = Day         (* Lite Custon Pr           11         = Hour         (* Lite Custon Pr           27         = Minute         TEST	example of file avi name [sc] avi name resulting: TESTI1161127.avi	TEST11161127.avi           TEST= Custom prefix           11         Month           16         Day           11         = Hour           27         = Minute
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Mark Carl		📝 OK 🔤 Eot	

Once filled the panel transmit the configuration to **SmartyCam**.

## 3.5 – How to transmit the configuration

With **SmartyManager** the configuration can be transmitted to **SmartyCam** via USB or copied on the micro SD (of course connected to the PC) that will be read by **SmartyCam**.

After having connected **SmartyCam** to the PC through the proper USB cable, click "**SmartyCam Transmit-Receive**", to transmit /receive from **SmartyCam** the configuration using the panel shown here below.

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15	Γ.	Auto_EU	01/01/2009 00:00:01						
16	Γ.	Auto_EU	06/09/2010 10:00 25						
17	<b></b>	Auto_US	01/01/2009-00-00-01						

Please note: in order to transmit data and configurations to the Micro SD card and to SmartyCam ensure that the micro SD is inserted into SmartyCam.



"Micro SD Transmit-Receive" key recalls "Browse" window: browse the PC until the micro SD is found as shown here below.

Sfoglia per cartelle
Si prega di selezionare un percorso per la micro-SD
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Cartella: Disco rimovibile (G:) OK Annulla

Copying configurations directly to **SmartyCam** Micro SD card, it will be necessary to enter **SmartyCam** menu to load any configuration. Page through the following options: **Menu>>SETTINGS>>CONF LOAD**. Refer to **SmartyCam** user manual for further information on this function.

## 3.6 – How to identify one's own SmartyCam

Clicking **AIM system identification** in the Configurator Toolbar, **SmartyManager** software initializes communication with **SmartyCam** and displays this information panel.

	SmartyManager [S	oftware Configurator]
X	Release Version	1.04.07 - build 100607-104070
	Release Date	June 07, 2010
	SmartyCam [	Camera Device]
D,	Main Processor Version	01.01.02
	Main Date	May 17 2010
	Slave Processor Version	47.05.16
	Serial Number	2101353
	Rev SVN	2444

**SmartyCam Info Net** window categorizes your system information into two sections: SmartyManager information and **SmartyCam** information.



## 3.7 – How to configure an AIM device if connected to SmartyCam

For **SmartyCam** to show on the video engine values (like RPM, temperatures, etc...) it is necessary to connect it to one of the AIM loggers that can transmit data like:

- data loggers: EVO3 Pro/Pista, EVO4;
- dashes/data loggers: MXL Strada/Pista/Pro05;
- devices for connections with ECUs: ECU Bridge;
- RPM loggers form coil: RPM Bridge;
- loggers for kart: **MyChron4**.

The systems have to be properly configured to transmit correct data. As far as **MyChron4** is concerned see paragraph 3.8.

As far as all other systems are concerned **Race Studio 2** software is needed. A copy is included in **SmartyCam** setup disk. If not visit <u>www.aim-sportline.com</u> and download a complimentary copy.

For additional assistance installing or navigating **Race Studio 2** and configuring AIM loggers or **Bridge**, please refer to the user manual, which is downloadable from our website, area download software, in PDF form, free of charge.

To configure an AIM **Bridge** or logger connected to **SmartyCam**, ensure that the system firmware can manage **SmartyCam**. Below the minimum firmware requirements for each system are outlined:

- ECU Bridge firmware version 45.01.05 or later;
- RPM Bridge any firmware version;
- MXL Strada/Pista/Pro05 firmware version 14.86.45 or later;
- EVO3 Pista/Pro firmware version 28.08.26 or later;
- EVO4 firmware version 43.02.17 or later;

To download the latest firmware visit <u>www.aim-sportline.com</u>, area download firmware.

Follow the following steps to configure **SmartyCam** and the connected AIM devices:

- connect **SmartyCam** to the computer via the provided USB cable;
- run SmartyManager software and go to SmartyCam Configurator;
- create a new configuration or select an existing one from SmartyManager database;
- transmit the configuration to SmartyCam clicking Transmit configurations;
- unplug SmartyCam from the computer and plug AIM Bridge/logger with the supplied USB cable. Be sure to power the system ON;
- run Race Studio 2 software;
- click "AIM system manager" on the left side of the screen;
- select the system;
- the configuration database for the selected system-type should then open;
- select an existing system configuration or choose to build a new one; be sure to add and set up any additional expansions that may be connected;
- navigate back to Select configuration tab;
- press "SmartyCam Functions setting" in the upper right corner of the screen;

📓 Race Studio 2 🛛 - version: 2.30.10	5					_ 2
File AIM system manager Download data	Analysis AIM system identification	Online AIM system calibration	Custom sensors manager Select Language	?		
	📓 System manager					
	Transmit	Receive	CAN-Net info	Set acquisition system	SmartyCam Functions	
Racing Data Power		Ę, III III III III III III III III III I		Service Time	setting	
AIM Sportline	Current configuration					



• "Set Functions to Channels" window appears. It links data channels monitored with AIM Bridge or logger to the objects visualized in SmartyCam video. For example, to display engine RPMs on SmartyCam, the channel monitoring or logging RPM in AIM Bridge or logger is to be linked with the SmartyCam corresponding channel. Data visualization in SmartyCam is limited to the list of channels outlined in "Set Functions To Channels" window. This setup window shows the available functions on the left and the channels to link them to on the right. Certain available channels feature a drop down menu, which displays different AIM Bridge or data logger channels compatible with that predefined function. If, for example, the function is "water temp", the drop down menu will show all available temperature channels. In some cases, the channel to link will not be displayed in the drop down menu. If that happens, select Disable Channel Filters option and it will be possible to select any of the enabled and available AIM Bridge or data logger channels. Of course RPM Bridge can only be connected to RPM channel.

FUNCTION	CHANNEL
ENGINE RPM	Engine
REFERENCE SPEED	Speed1
SEAR	none available
WATER TEMP	none available
HEAD TEMP	none available
EXHAUST TEMP	none available
OIL TEMP	none available
OIL PRESS	none available
BRAKE PRESS	none available
THROTTLE_POS	none available
BRAKE POS	none available
CLUTCH POS	none available
STEER POS	none available
LAMBDA	none available
ATERAL ACCEL	NOT SET
ONG ACCEL	NOT SET
FUEL LEVEL	none available
BATTERY	NOT SET

- Click **OK** and transmit the configuration to AIM Bridge/logger;
- turn AIM **Bridge** or logger OFF. Connect **SmartyCam** via the provided cable to the system, power it back ON. **SmartyCam** has now been successfully integrated

Please refer to **Race Studio Configuration** user manual for further information concerning configuration of an AIM **Bridge** or logger.

#### 3.8 – Configuring MyChron 4 when connected to SmartyCam

Before connecting **SmartyCam** to **MyChron 4**, ensure that this last has a firmware version 31.58.07 or later. To download **MyChron 4** latest firmware, visit <u>www.aim-sportline.com</u>, download firmware area. **MyChron 4** will automatically link available channels to those visualized on **SmartyCam**. Also in case **MyChron4** is connected to **eBox Extreme** connecting **SmartyCam** to **MyChron4** the loggers will automatically communicate. **MyChron4** automatically recognizes **SmartyCam** and shows on the display the channels

that have been set and that corresponds to **SmartyCam** configuration.

Warning: if connecting a SmartyCam to a MyChron 4 and eBox Gold or Extreme, external 12V power is to be run to the system in order to ensure proper function. Please refer to <u>www.smartycam.com</u> connection section and select MyChron4 data logging system for any further information on SmartyCam-MyChron4 connection schemes.



## Chapter 4 – The new "Tracks" function for track management

Tracks management and loading in **SmartyCam** overlay is made in two steps: the first is adding "Map" object in **SmartyCam** overlay while creating the configuration (paragraph 3.3); the second is the real loading of the track map file that comes through "Tracks" menu. Press the corresponding button highlighted below.





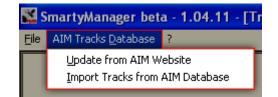
"Tracks" window, shown here below, is made up of four main panels:

- Local PC (software) Database (1);
- SmartyCam database (2);
- Visualized track information panel (3);
- Track map (4).

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In addition to the numbered panels are: "GPS Coordinate systems" panel to select the GPS coordinates to use, "Measure unit system" to decide whether using the Metric or the Imperial measure unit system (above panel "1") as well as "Receive from **SmartyCam**" and "Send to **SmartyCam**" buttons to move configurations from **SmartyCam** to the software and vice versa (between panels 1 and 2).

On top of the page is Menu bar, shown here below.



Through "AIM Tracks Database" Menu it is possible to update the tracks database via the AIM corporate website (ensure that a web connection is available) or to restore the software default database.



## 4.1 – How to insert the track map in SmartyCam overlay

Between the objects **SmartyCam** can include in its overlay particularly important is the "Map".

The proceeding to insert the track map in **SmartyCam** overlay is made up of three steps.

#### 1 – Add the "Track" object in SmartyCam overlay:

- from **SmartyManager** main page press "SmartyCam configurator";
- add the "Map" object to **SmartyCam** overlay and resize it to fit the expected track (Paragraph 3.3.1);
- place the object paying attention not to overlap one another;
- transmit the configuration to **SmartyCam** (Paragraph 3.5).

#### 2 – Load the track map in SmartyCam:

- go back to SmartyManager main page;
- press "Tracks";
- select the track in "Local PC Database" panel;
- press "Send to SmartyCam";
- wait for the confirmation message.

#### 3 – Set the SmartyCam configuration that includes "Map" object on SmartyCam:

If **SmartyCam** detects a track included in its database (point 2) within a 5 km area, then sets it.

Only if more tracks are available in a 5 km area or if the same circuit has more tracks it is necessary to run two track laps ant the track is recognised and set.

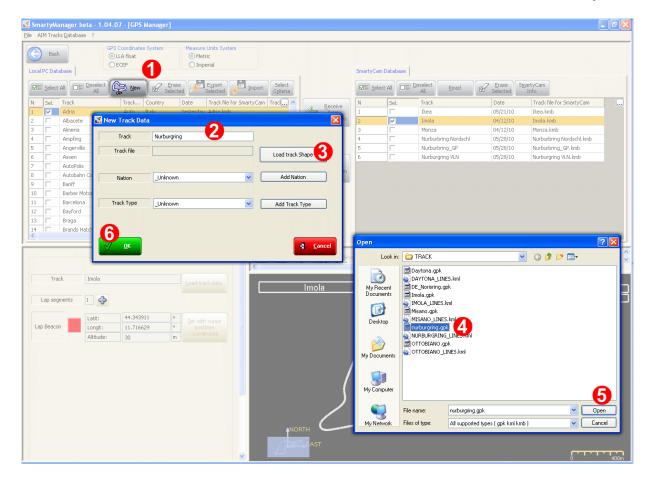


## 4.2 – How to add a new track to SmartyManager database

There are two ways to add a track cohordinates and/or its map to **SmartyManager** database: AIM recommends to use a ".gpk" format file of that track. This file is created by **Race Studio Analysis** software during data download from an AIM logger and it includes all laps of a run on the same track: .gpk file are stored in the folder where downloaded data are stored.

The second way consists in filling manually in the Lap beacon coordinates (see yellow box at the end of this paragraph).

To add a new track: load it in the local PC Database, set it and transmit it to **SmartyCam**.



To add a track to "local PC Database" (see above image):

- press "New" (1);
- "New track data" panel appears, fill in the track name (2);
- press "Load Track shape" (3);
- "Open" panel appears already showing "TRACK" folder: select the desired ".gpk" file (4);
- press "Open" (5);
- the system comes back to "New Track Data" panel: fill in "Nation" and "Track Type" and press "OK" (6).



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	New Jersey Motor	Road	US	05/10/10			SmartyCam	2		Imola	04/12/10	Imola.kmb
	NewTokyo	Kart	Japan	05/27/10	NewTokyo.kmb			3		Monza	04/12/10	Monza.kmb
	Nizza Monferrato	Kart	Italy		Nizza Monferrato.kmb			4		Nurburbring Nordschl	05/28/10	Nurburbring Nordschl.kmb
	Nogaro	Auto	France	04/02/10				5		Nurburbring_GP	05/28/10	Nurburbring_GP.kmb
Г	Norisring	Auto	Germany	_	Norisring.kmb	_		6		Nurburgring VLN	05/28/10	Nurburgring VLN.kmb
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	Oschersleben	Auto	Germany		Oschersleben.kmb							
	Ottobiano Ottobiano solit	Kart Kart	Italy Italy	Yesterday	Ottobiano split.kmb							
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	k file nurburgring.g gments 1 🚱	pk 0.00000 0.00000 0	0	Set with	cursor		, Show KM8 File (For Sm Nurburgring	artyCam)	Zur		7	LATITUDE S0 33405

As shown here above, the track has been added to "Local PC Database" panel but there is no ".kmb" file associated.

In addition to this the software has placed the lap beacon at half of the run and it is thereby necessary to set the desired one as explained below.



#### To properly set the track and transmit it to SmartyCam:

AIM Tracks Database ?	07 - [GPS Manager]										
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ical PC Database					1	SmartyCa	m Database				
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l 🔲 New Jersey Motor	Road US	05/10/10			SmartyCam	2		Ikea	05/21/10	Ikea.kmb	
2 🔲 NewTokyo	Kart Japan	05/27/10	NewTokyo.kmb			3		Imola	04/12/10	Imola.kmb	
3 🔲 Nizza Monferrato	Kart Italy	05/27/10	Nizza Monferrato.kmb			4		Monza	04/12/10	Monza.kmb	
Nogaro	Auto France	04/02/10				5		Nurburbring Nordschl	05/28/10	Nurburbring Nordschl.kmb	
Norisring	Auto Germany	04/12/10	Norisring.kmb			6		Nurburbring_GP	05/28/10	Nurburbring_GP.kmb	
5 Vurburgring	_UnkUnknown	Today	Nurburgring.kmb	nurburgr	Send to	7		Nurburgring	Today	Nurburgring.kmb	
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Loca Track Nurburgring	al PC Database	.kmb f is associ	ile iated						lect Lap: 2	LATITUDE:50:	334167。
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Loc: Track Nurburgring Track file Nurburgring, Lap segments 1	In PC Database	.kmb f s associ	ile iated :k data		Show KMB File (For Sma			e Export Se	)	LATITUDE:50:	334167。
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Lap Beacon	S0.334174         6.394573         612	.kmb fi s associ Load trac Set with positi m Modify	ile iated k data cursor track		Show KMB File (For Smd		_	e Export Se	)	LATITUDE:50:	334167。
Lap Beacon	S0.334174         6.394573         612	.kmb fi s associ Load trac Set with positi m Modify	ile iated k data cursor track		Show KMB File (For Smd		_	e Export Se	)	LATITUDE:50:	334167 <

- disable "show all laps" checkbox (1);
- scroll all laps and select the one to be considered as track map (2);
- point the mouse where lap beacon is wished (3);
- press "Set with cursor position coordinates" (4) and the coordinates are set in the left boxes;
- press both "Save" (5);
- ".kmb" file has been associated to the track in "Local PC Database" panel as highlighted here above;
- enable the related checkbox (6);
- press "Send to **SmartyCam**" (7);
- after a short wait the track appears in "SmartyCam database" (8).

Warning: if no file of the desired track is available, it is enough to know its lap beacon GPS coordinates and fill them manually in the boxes left of "Set with cursor position coordinates" button, numbered "2" in the above image. No track map will be shown in the related panel but the lap beacon will be detected.



## 4.3 – How to modify an existing track

Once a track has been loaded and set it can be modified changing the lap beacon coordinates, adding end deleting splits and changing its attributes.

Back	ibase	PS Coordinate ULA float ECEF		⊙ Met ◯ Imp	erial		SmartyCam	Database				
Z≣ ≦elect 4	AI DE Deselect		Ber Era	se ted	Export Selected			t Al	Al Read	Zelected So	nartyCam Info	
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_	Muro Leccese	Kart	Italy		Muro Leccese.kmb	SmartyCam	2		Ikea	05/21/10	Ikea.kmb	
_	New Jersey Motor	Road	US	05/10/10			3		Imola	04/12/10	Imola.kmb	
	NewTokyo	Kart	Japan		NewTokyo.kmb		4		Monza	04/12/10	Monza.kmb	
	Nizza Monferrato	Kart	Italy		Nizza Monferrato.kmb	-	5		Nurburbring Nordschl	05/28/10	Nurburbring Nordschl.kmb	
_	Nogaro	Auto	France	04/02/10	Marketer Lark	- Sond to	6		Nurburbring_GP	05/28/10	Nurburbring_GP.kmb	
	Norisring	Auto	Germany		Norisring.kmb	Send to SmartyCam	7		Nurburgring	Today	Nurburgring.kmb	
5 🔽	Nurburgring	_Unk	_Unknown	Today	Nurburgring.kmb nurbur Okayama.kmb		8		Nurburgring VLN Ottobiano	05/28/10 Vectorday	Nurburgring VLN.kmb	
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Track Track f Lap segn	k Nurburgri file Nurburgri	ng	base	Load tra	ck data			Save	Export		LATITUDE 50.33	
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To modify a track:

- activate it in "Local PC Database" panel (1);
- press "Load track data" (2) to substitute the ".kmb" reference file; this can happen in case more files of the same track are available;
- press "+" (3) and add the desired number of splits (up to five allowed);
- point the mouse where the first split is to be fixed and press the related "Set with cursor position coordinates" button (**4a** and **4b**);
- point the mouse where the second split is to be fixed and press the related "Set with cursor position coordinates" button (**5a** and **5b**) and so on for each split;
- press "Modify track attributes" (6) to modify track nation and type;
- press "Save" (7) and then "Send to SmartyCam" (8).

To delete a split press "Del" button of the split to delete (9).

It can be useful to have different configuration of the same track: for example different tracks or different overlay (with or without accelerometer, with or without RPM etc.). To do so proceed as to create a new item of the same track with a different name and modify it as here above explained.



## **Chapter 5 – Other functions of SmartyManager software**

SmartyManager software provides several features to help during the use of the system.



- Movies (1) downloads recorded movies directly from SmartyCam;
- Online (2) function allows to use the computer as a remote view finder;
- Firmware Update (3) feature gives the ability to update SmartyCam firmware with just a click;
- **SmartyCam identification** (4) provides with real-time system and firmware information;
- Language Selection (5) allows to choose from nine different viewing languages for SmartyManager software

Before attempting to use any of the features included in **SmartyManager**, please ensure to first power the unit ON and connect it to the computer.



Deals to a fiture

## 5.1 – Movie file management

Selecting Movies option, this window appears.

Back to software					
main page					
Non-second second s	🔀 SmartyManager beta - 1.04.07 - [Gestione Filmati]				
File ?					
Back Zoom Factor	Optimize Player 1 For SmartyCam File     Fit to window     Optimize Player 2 For SmartyCam File	Download SmartyCam Movies			
Browse For First Video	Select movies zoom factor	Open SmartyCam movies download window			
Recalls "Brov to select the first m (allowed up to two n	ovie to be opened				

It allows both to download movies from **SmartyCam** ("Download **SmartyCam** Movies") and to play them loading up to two movies at a time. The movies can be zoomed to.

#### 5.1.1 – Downloading movies from SmartyCam

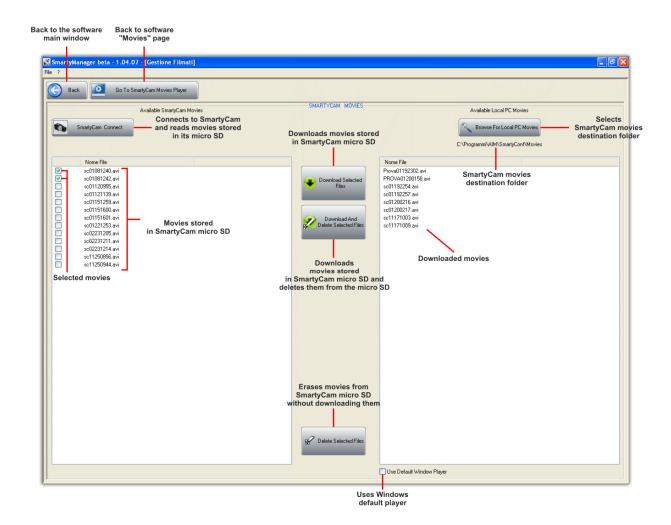
Clicking "Download Movies from **SmartyCam**" Movie File Manager window appears displaying all movies stored on **SmartyCam** Micro SD card.

🔀 SmartyManager beta - 1.04.07 - [Movies]		
File ? Back to Smarth/am Movies Player Back to Smarth/Mar	agor	
Back I Go To SmartyCam Movies Player Back to SmartyMar movies player		
Available SmartyCam Movies	SMARTYCAM MOVIES	Available Local PC Movies Browse For Local PC Movies C\Programm\AllMSmatyConf\Movies
connection status		
File Name		File Name
co1018142.avi     co1012055.avi     co10151255.avi     co10151255.avi     co10151255.avi     co1015100.avi     co1022155.avi     co1022155.avi     co10221305.avi     co10221311.avi     co10223121.avi     co10223121.avi     co10223121.avi     co10223121.avi     co10223124.avi     co1125056.avi     co11250544.avi	Download Selected Files Download And Delete Selected Files	Provod 192302.evi PROVAD 2001 192305.evi sc01 192257.evi sc01 20207.evi sc01 20207.evi sc11171008.evi sc11171008.evi sc11171008.evi
	Pelete Selected Files	before checking this checkbox

Warning: to play movies recorded with SmartyCam it is necessary to download "VLC" free software and set it as windows default player. It is necessary to have the checkbox highlighted bottom of the above image enabled.



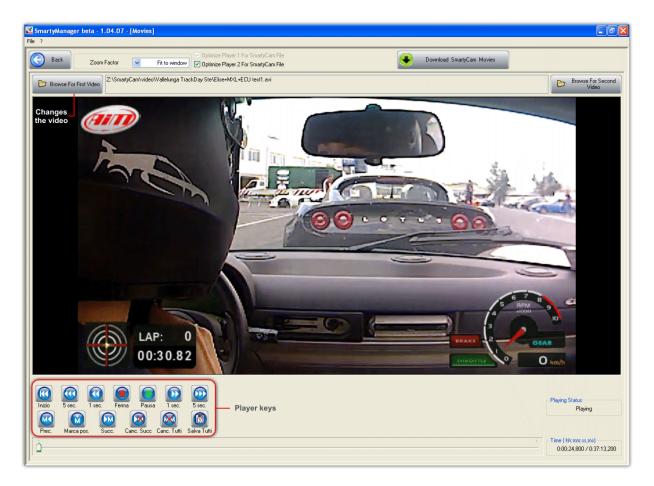
Selecting at least one movie, central keys enable as shown here below.





#### 5.1.2 – Playing SmartyCam movies with SmartyManager player

**SmartyManager** has a built in player that plays up to two videos at a time and synchronizes them. Pressing "Browse for first Video" it is possible to browse the computer to select the video to load and play. Once the first video is loaded the windows modifies as shown below.





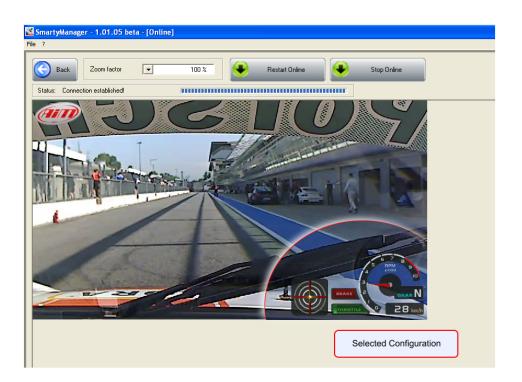
To play a second video press "Browse for second video". The windows modifies as shown here below.





## 5.2 – Online

**Online** feature allows to see exactly what **SmartyCam** is seeing in real-time by making the computer a remote view finder.



Online feature allows to ensure that the currently selected and displayed configuration is the desired one showing real-time video at 15 frames per second. Available keys are shown here below.

	Fit to window 50 % 75 % 100 %	
SmartyManager - 1.01.05 beta - [Online]	125 % 150 % 175 % 200 %	
Status: Connecting to SmartyCam.	Kestart Online	Stop

Zoom option enlarges online viewing screen up to twice the standard size.

Restart online feature allows to come back to online mode without exiting. This feature should only be used if **SmartyCam** times out during use.

Warning: please use only "Back" button to come back to the software main window. Exiting in different ways can result in a software crash, loss of data, or SmartyCam lock-up.



## 5.3 – Firmware update

**Firmware Update** checks for firmware updates for **SmartyCam** anytime an Internet connection is present. **SmartyManager** will automatically search our online database and tell you whether or not your **SmartyCam** needs updating. Simply click on **Firmware Update** and the software will begin firmware query.



#### Afterwards this window appears

		Manager - 1.0	1.00 - [Firmware Update]		
	• 7	Dack	1		
ſ				FIRMWARE DOWNLOAD	Available Local PC Releases
	۲	WEB Conne			Browse for Local PC Releases C: VPogramm/MM/SmatyConVinterret/Vimup
	Ø	Version 00.00.25 00.00.28 00.00.30 00.00.36	File Name           marby_spidele_v00.00.25 sp           marby_spidele_v00.00.20 sp           marby_spidele_v00.00.30 sp           marby_spidele_v00.00.35 sp	2 Coversional selected New	Version         File Name           0000         smarty_uopdate_v00.00_28.pp           00.00.35         smarty_uopdate_v00.00_36.pp
-					
	D	Version 00.00.28 00.00.36	Available Local PC Releases Etween for Local PC Releases Ct/Programm/AIM/SmartyConfUnitemet/Fimup File Name unety_update_v00.00.36 zp		IP SmatyCan Update  Current SmatyCan Firmmare Release: v00.00.32  C micro-SD Update  Browne for micro-SD
l					

Back (1) button leads back to SmartyManager main window.

The remaining part of the window is divided in:

- firmware download (2 paragraph 5.3.1)
- firmware update (3 paragraph 5.3.2)



#### 5.3.1 – Firmware download section

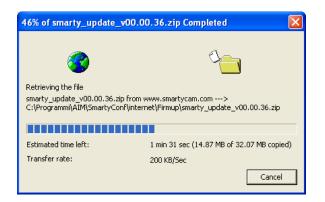
To view a complete list of firmware versions currently available online, click "WEB Connect" at anytime. To download the latest firmware updates for **SmartyCam**, ensure that Internet connection has been established, click "WEB Connect", select a firmware version from the list (the software automatically selects the most recent release), and click "Download selected files" (Figure here below).

6	9	WEB Connect			RRMWARE DOWNLOAD		Available Local PC Release Browse for Local PC Release C-VPtogrammi/AIM/SmartyConf/interr	
		Version 00.00.26	File Name smarty_update_v00.00.25.zip			Version 00.00.29 00.00.36	File Name smarty_update_v00.00.28.zip smarty_update_v00.00.35.zip	
		00.00.28	smarty_update_v00.00.28.zip	C. C	<b>_</b>	0.00.00	11189_00486_10.0.0.0.0.0	
		00	Version	File Name				
			00.00.26	smarty_update_v00.00.26.zi	P Download selected			
			00.00.28	smarty_update_v00.00.28.zi				
			00.00.30	smarty_update_v00.00.30.zi	p			
			00.00.36	smarty_update_v00.00.36.zi	P			
		_						

If attempting to initialize the firmware download process without first establishing an Internet connection, the system will prompt.

	WEB Connect	
Impossible to	connect to AIM server.	Please check Your internet connection

File sizes may vary depending on the update; the download process usually takes just few minutes, depending on Internet connection and data transfer speed.

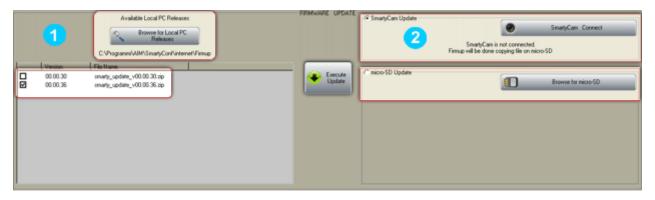


Once firmware download is complete, the update will show up in both "FIRMWARE DOWNLOAD" panel and "FIRMWARE UPDATE" panel.



#### 5.3.2 – Firmware update section

Once the latest firmware updates successfully downloaded, SmartyCam can be updated.



To start update process, select a firmware release from the list of "Available Local PC Releases" (1) in "Firmware Update" panel; the software will automatically select the most recent update. Updating options (2) are also located in "Firmware Update" panel. It is possible to update **SmartyCam** directly, if the system is connected to the computer, or to transmit the update directly to the Micro SD card.

#### To update the firmware on SmartyCam:

- ensure that **SmartyCam** is connected to the computer;
- select SmartyCam Connect option (2) located in "Firmware Update" panel;
- click SmartyCam Connect to establish connectivity;
- select a firmware release from the list of "Available Local PC Releases" (1) in "Firmware Update" panel;
- click "Execute Update" button and follow the on-screen instructions.

#### To transmit a firmware update directly to the Micro SD card:

- insert the Micro SD card into the computer via a card reader or the provided Micro SD to SD card adapter;
- select "micro-SD Update" option (2) located in "Firmware Update" panel;
- click "Browse for micro-SD" in order to direct the software to the Micro SD card;
- click "Execute Update" and follow on-screen instructions;
- once updated, remove the Micro SD card from the computer;
- insert the updated Micro SD card into **SmartyCam** with the system turned OFF;
- with SmartyCam lens facing away, hold down the far right button and momentarily press the central power button; continue holding the right button down until SmartyCam shows its splash screen featuring the Linux logo: then it is possible to release it.



## 5.4 – SmartyCam Identification

"SmartyCam identification" button provides real-time system and firmware information about SmartyCam.

×	SmartyManager [Software Configurator] Release Version 1.04.07 - build 100607-104						
aim	Release Date	June 07, 2010					
	SmartyCam [Came	ra Device]					
	Main Processor Version	01.01.02					
	Main Date	May 17 2010					
	Slave Processor Version	47.05.16					
	Serial Number	2101353					
	Rev SVN	2444					

**SmartyCam Info Net** window categorizes your system information into two sections: SmartyManager information and **SmartyCam** information. **SmartyManager** information section tells what software release/version is currently running on the computer and when it was released.

**SmartyCam** information section outlines what release/version of firmware **SmartyCam** processors are running (Example main processor firmware: **01.01.02** and slave processor firmware: **47.05.16**), the release date of the firmware, **SmartyCam** serial number (Example: **2101353**), and the revision SVN identifier (Example: **2444**).

### 5.5 – Language selection

**Language Selection** feature allows to choose **SmartyManager** viewing language. Choose the preferred viewing language and click "OK" to enable this feature.