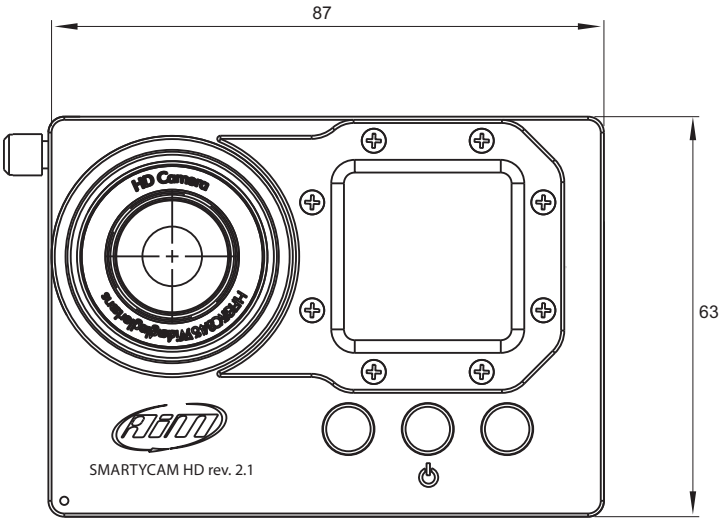
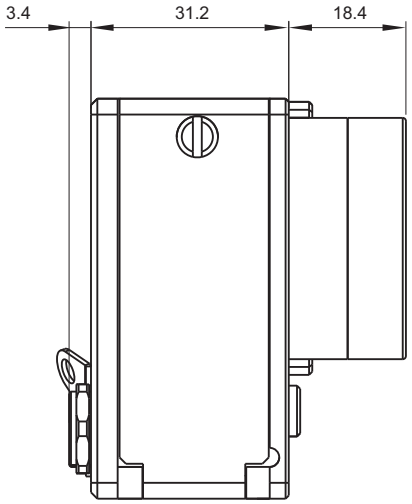
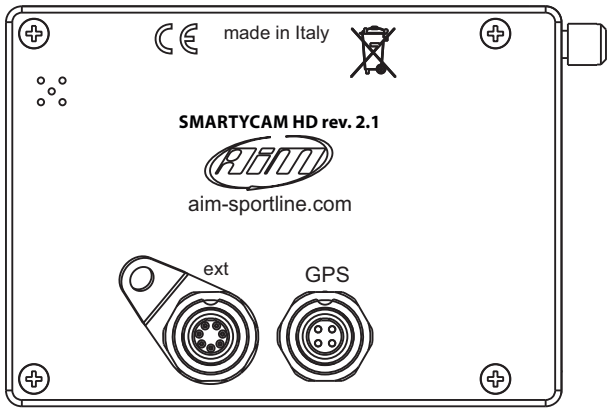
AiM SmartyCam HD Rev. 2.1

On-board camera







Technical characteristics

Video format	H.264 1280 x 720 pixels @ 30 fps
Display resolution	128 x 128 pixels
Lens	Telecentric with 6 elements
Field of view	67° or 84°
Internal battery	Rechargeable lithium battery 1.950 mAh
Battery charge	700 mAh 12V
Battery duration	120 - 150 min of recording
External power	9-15 Volt
Supported SD card	Up to 128 GB
Memory capability	1.5 GB (1 hour low quality recording) 2 GB (1 hour medium quality recording) 4 GB (1 hour high quality recording)
Accelerometer	Three-axial ± 5G
Usage temperatures	-10°C/+60°C
Auto Power ON	Yes, if connected to an AiM logger
Auto Power OFF	Yes
Auto Start/Stop Recording	Yes
Dimensions	87 x 63 x 49 mm
Weight	280 g, battery included
Waterproof	IP67

In the box

SmartyCam HD with 67° or 84° lens, CAN cable or external power cable, USB/AC power adapter, Battery charger, 4 Gb HC10 SD Card, CD for software installation, User manual

Available versions

With 67° lens

X98SHD00206721	SmartyCam HD with 2 mt CAN Bus + 67° lens
X98SHD02EM6721	SmartyCam HD with 2 mt CAN Bus + 67° lens + Integrated external microphone harness
X98SHD02J6721	SmartyCam HD with 2 mt CAN Bus + 67° lens + Integrated 3.5 female Jack for external microphone harness
X98SHD00406721	SmartyCam HD with 4 mt CAN Bus + 67° lens
X98SHD04EM6721	SmartyCam HD with 4 mt CAN Bus + 67° lens + Integrated external microphone harness
X98SHD04J6721	SmartyCam HD with 4 mt CAN Bus + 67° lens + Integrated 3.5 female Jack for external microphone harness
X98SHD00106721	SmartyCam HD with 2 mt external power cable + 67° lens
X98SHD1EM26721	SmartyCam HD with 2 mt external power cable + 67° lens + Integrated external microphone harness
X98SHD1J26721	SmartyCam HD with 2 mt external power cable + 67° lens + Integrated 3.5 female Jack for external microphone harness
X98SHD1EM46721	SmartyCam HD with 4 mt external power cable + 67° lens + Integrated external microphone harness
X98SHD1J46721	SmartyCam HD with 4 mt external power cable + 67° lens + Integrated 3.5 female Jack for external microphone harness

With 84° lens

X98SHD00208421	SmartyCam HD with 2 mt CAN Bus + 84° lens
X98SHD02EM8421	SmartyCam HD with 2 mt CAN Bus + 84° lens + Integrated external microphone harness
X98SHD02J8421	SmartyCam HD with 2 mt CAN Bus + 84° lens + Integrated 3.5 female Jack for external microphone harness
X98SHD00408421	SmartyCam HD with 4 mt CAN Bus + 84° lens
X98SHD04EM8421	SmartyCam HD with 4 mt CAN Bus + 84° lens + Integrated external microphone harness
X98SHD04J8421	SmartyCam HD with 4 mt CAN Bus + 84° lens + Integrated 3.5 female Jack for external microphone harness
X98SHD00108421	SmartyCam HD with 2 mt external power cable + 84° lens
X98SHD1EM28421	SmartyCam HD with 2 mt external power cable + 84° lens + Integrated external microphone harness
X98SHD1J28421	SmartyCam HD with 2 mt external power cable + 84° lens + Integrated 3.5 female Jack for external microphone harness

X98SHD1EM48421	SmartyCam HD with 4 mt external power cable + 84° lens + Integrated external microphone harness
X98SHD1J48421	SmartyCam HD with 4 mt external power cable + 84° lens + Integrated 3.5 female Jack for external microphone harness

Accessories

X40GPS8SHD20	GPS08 Module for SmartyCam HD with 2 m lenght cable
X40GPS8SHD40	GPS08 Module for SmartyCam HD with 4 m lenght cable
X40GPS8SHD2R	GPS08 Module for SmartyCam HD Roof version with 2 m lenght cable
X40GPS8SHD4R	GPS08 Module for SmartyCam HD Roof version with 4 m lenght cable
X90KSSMC1	**Suction cup kit** In the box: suction cup, 60 mm arm, ball head, washer
X90KSSMC0	**Kit for 1 to 2.1 inches Ø bar** In the box: Handlebar bracket, 60 mm arm, ball head, washer
X90KSTP00	**Kit for 0.5 to 1.2 inches Ø bar** In the box: U-bolt, 60 mm arm, ball head, washer
X98KVOCHD0	**Glass replacement kit** The kit includes the Schott B270 glass and his o-ring OR30X1, designed for long lasting resistance to any kind of stress
X98KVDCHD0	**Display glass replacement kit** Methacrylate anti-glare anti-scratch protection

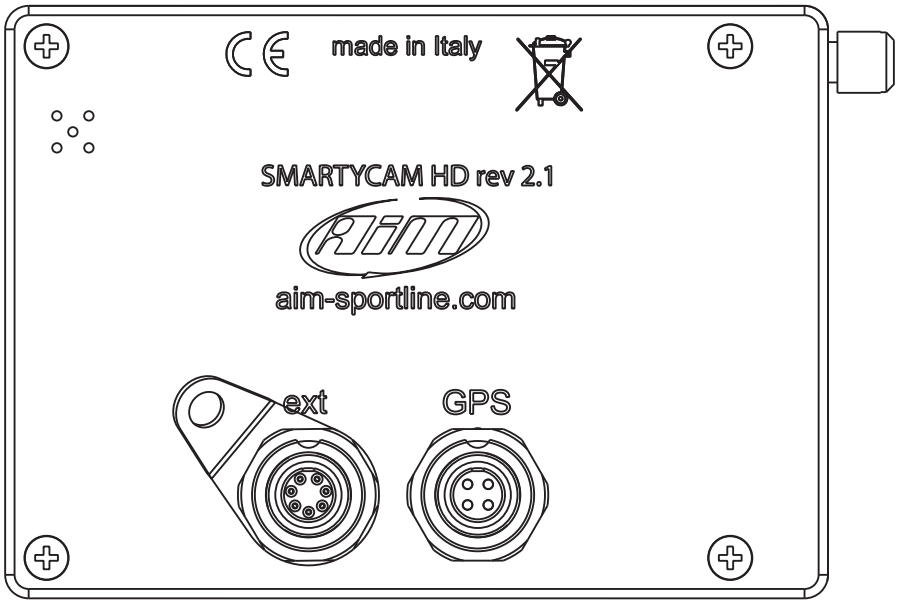
Cable + external microphone:

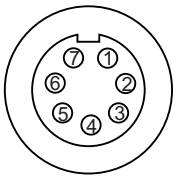
V02566080	2 mt external power cable + Integrated external microphone harness
V02566230	4 mt external power cable + Integrated external microphone harness
V02566310	2 mt external power cable + Integrated 3.5 female Jack for external microphone harness
V02566320	4 mt external power cable + Integrated 3.5 female Jack for external microphone harness
V02566100	2 mt CAN Bus + Integrated external microphone harness
V02566240	4 mt CAN Bus + Integrated external microphone harness
V02566290	2 mt CAN Bus + Integrated 3.5 female Jack for external microphone harness
V02566300	4 mt CAN Bus + Integrated 3.5 female Jack for external microphone harness

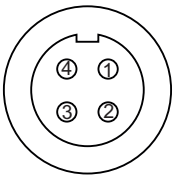
Spare parts

X90TMPC002	USB cable
V02566070	2 mt CAN harness
V02566060	4 mt CAN harness
V02566150	2 mt external power harness

Pinout







7 pins Binder 712 female connector pinout external view (Ext)
1 - CAN+ 2 - GND 3 - +Vb 4 - CAN- 5 - +Vbext 6 - GND 7 - Mic+

4 pins Binder 712 female connector pinout external view (GPS)
1 - CAN+ 2 - GND 3 - +Vb 4 - CAN-

Product history

Rel	From serial number	Date	Changes
Rel02	**3805087**	Jul, 14th 2017	▪ **SMC-07F**: Main board Voltage regulator mounted in position K22 -> S1165B33MC-N6STFG (3.3 Volt) instead of -> S1165B30MC-N6PTFG (3.0 Volt) This is necessary for proper "GPS08 Smarty-Cam" power
Rel01	**3803996**	Oct, 28th 2016	▪ **DSC-07E**: New display interface board for use new model of TFT display
Rel00	**3802881**	Oct, 7th 2015	▪ **SMC-07F**: Main board New position of internal microphone with holes in rear mechanical box to improve audio recording ▪ **Rear mechanical box**: new drawing with holes and place for install internal microphone