MOVIN' ON GPS
FLEET MANAGEMENT

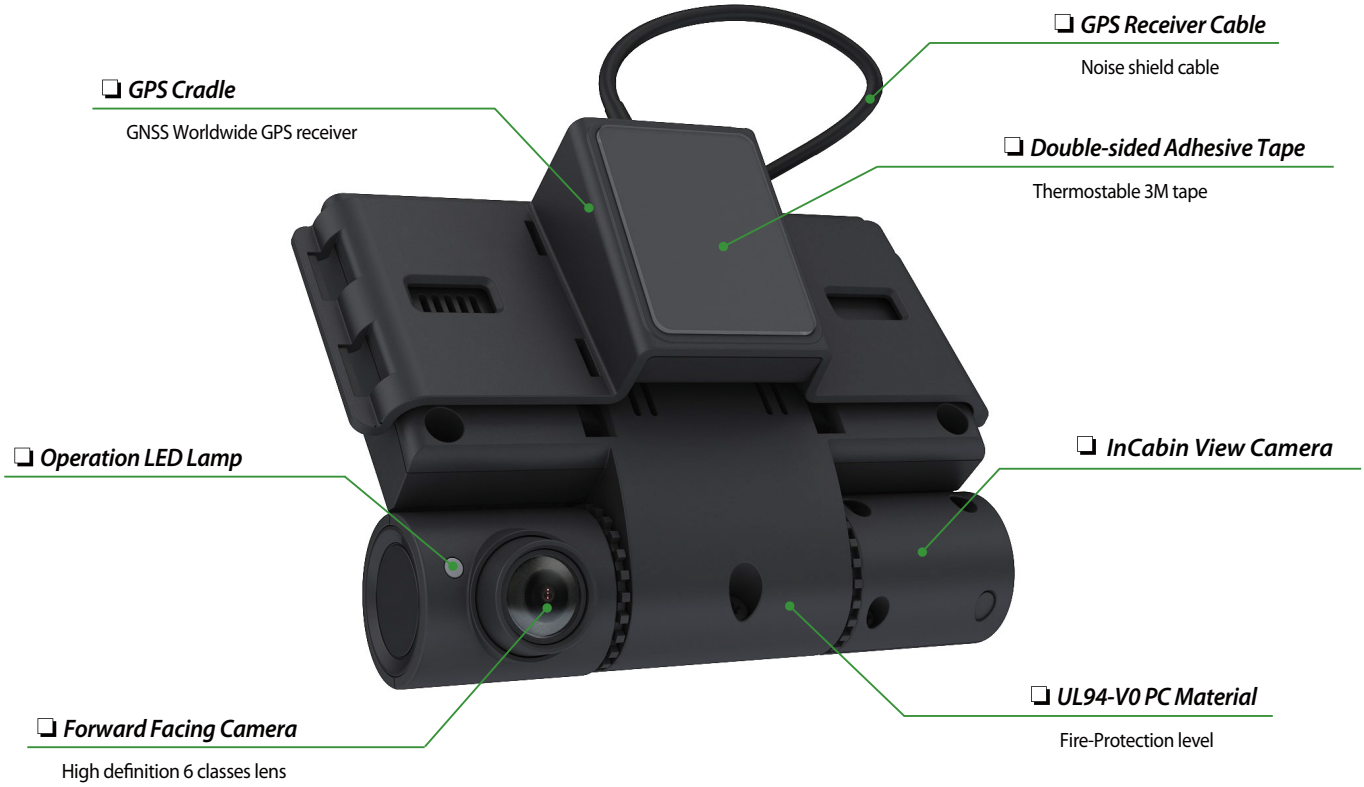
3-Ch Drivecam for the Professionals

MOSS DC3

micro SD HC | 3ch | HD 720P VIDEO | G Sensor | GPS TECHNOLOGY

G.P.S TRACKING, FLEET MANAGEMENT & MOBILE SURVEILLANCE SYSTEMS
636 Hempstead Turnpike, Franklin Square, NY 11010 P: 516.489.2350 F: 516.489.8430 www.movinongps.com

MOSS DC3



[*Outside Vehicle View*]

[Inside Vehicle View]

❏ Specifications

Category		Descriptions	Remarks
CPU		Coretex-A8 (800MHz) processor	Linux ARM
Camera	1st-Front	1.3 MEGA Pixels HD CMOS Sensor	1280 x 720p (HD)
	2nd-InCabin	1.3 MEGA Pixels HD CMOS Sensor	1280 x 720p (HD)
	3rd-Rear camera	NTSC Analog D1 composite	(D1 720 x 480p), Optional
Camera Angle		114.39(H), 61.98(V), 134.4(D)	
DDRII RAM		256 MB	Samsung
Nand Flash Memory		128 MB	Samsung
G-Force sensor		3-Axial acceleration sensor	up to ±8G
Speaker / MIC		Mono Speaker / Internal MIC	
Super capacitor		DC 5V / over 5F	-40℃ to +85℃ Industrial Level
GPS Module Ant.		GNSS /External GPS Antenna support	
Removeable storage		micro SDHC(MLC) x 2 slots	64GB support / Total 128GB use
Video output		NTSC/PAL	Ear phone jack to RCA
External interface	GPS signal	2.5Ø 4PIN ear phone jack	
	USB	USB Type-A	USB2.0 support
	Rear camera	2.5Ø 4PIN ear phone jack	Vehicle back gear signal support
	micro USB	Micro-USB Type B	USB2.0 support
	DC Input	3.5Ø DC input jack	
	AV-Out	2.5Ø 4PIN ear phone jack	Y type cable use for foot s/w
Video Encode	Format	mp4 / H.264	
	Mode	2 Channel use	3 Channel use
	Front	4Mbps / @30fps	4Mbps/ @30fps
	InCabin	2Mbps/ @30fps	2Mbps/Max.@15fps
	Rear	-	512kps/Max.@15fps
Audio Encode		PCM	Monaural, 22.05Khz, 16bits
Recording		All time recording	One file / min(60s±1s)
		Button_Event recording)	Before 15 sec.±0.25s after 15 sec.±0.25s (total 30 sec.)
		Panic_Event recording)	
		G-sensor_Event recording)	
Devices in DVR		Battery for RTC backup	3V/over 500mAh primary battery -40℃ to +125℃ Military spec.
		Push button for manual event recording	
		Over 4 IR_LEDs for InCabin camera	IR_LEDs are turned on and off automatically depending on surrounding Illuminance

❑ Specifications

Category	Description	Remarks
Operating power voltage	DC 8V ~ 32V	DC 12V / DC 24V support
Operating temperature	-20℃ to +85℃	
Storage temperature	-30℃ to +95℃	
Dimension (mm)	109(w) x 82(H) x 19(D)	Main body except projection of camera
	121.9(W) x 104.2(H) x 46.1(D)	Main body including GPS cradle and cover case except projection of camera
Weight	Main device: 138g / GPS Cradle : 42g	Assembled parts: 180g
Warranty Period	1 year after purchase	
Market defect rate	Under 0.25%	
UL Standard	UL94-V0	
Certificate	RoHs, CE, FCC	

Package Contents / MOSS DC3

Main Device

GPS Cradle

Tamper-proof Case

Hexagonal Screw

Hexagonal L-Wrench

User Guide

Rear Camera (optional)

DC Fuse Power Cable

Zip Ties and Clips

Package Box

Micro SDHC - MLC type (optional)

Optional Accessories

❏ External GPS active antenna / MOSS-GPSA-6000

- GPS antenna is able to connect with "GPS Cradle" for GPS receiving improved sensitivity.
- Cable length is 6 meters, Magnet type.
- IP67 waterproof

❏ Video-out cable. / MOSS-VOC-100

- Current recording video can be displayed in Video monitor like a CCTV or AV Monitor system. (PAL/NTSC compatible)
- RCA Male Jack type
- Cable length is 1 meter
- UL Approved

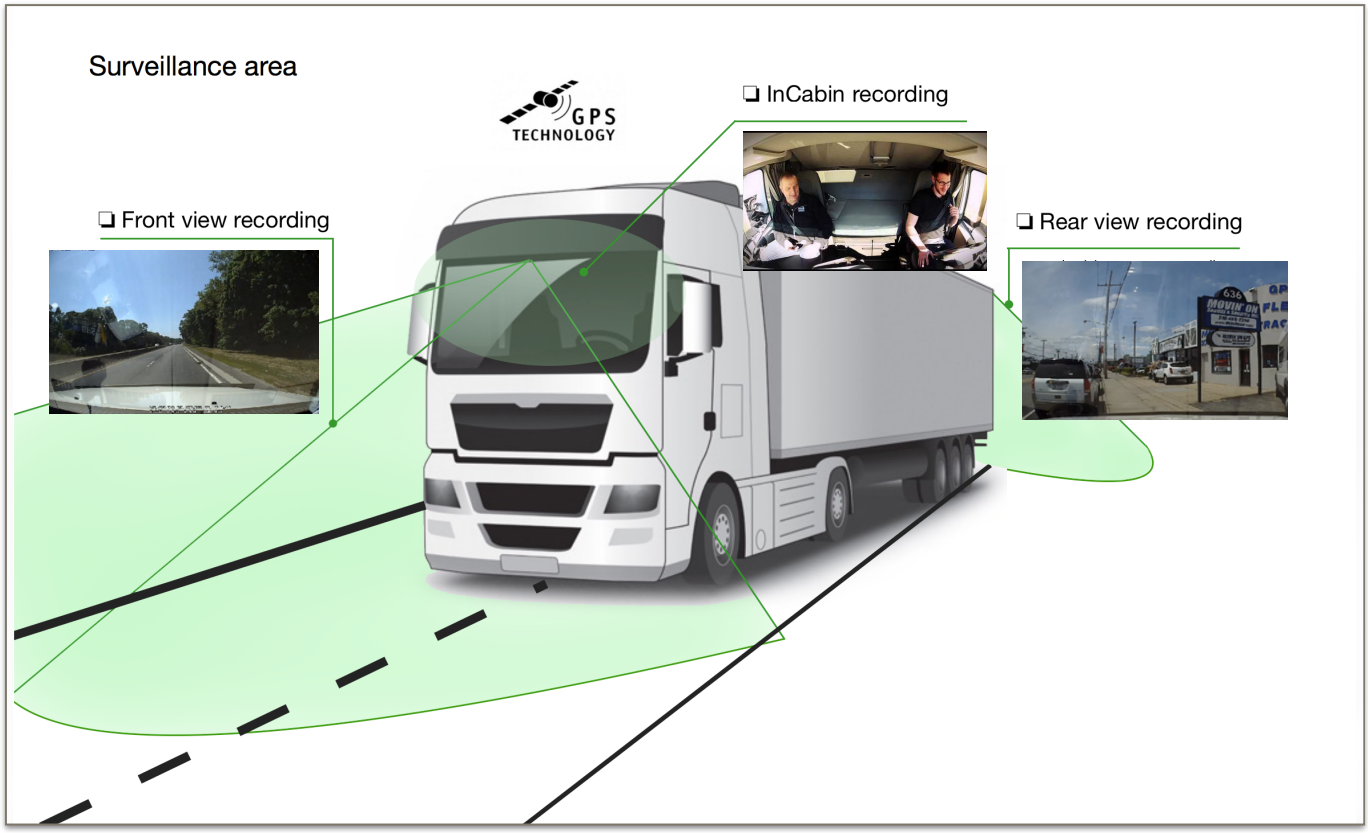
❏ Rear view camera.

- MOSS DC3 drive recorder is able to use 3 Channel recording with additional rear camera use.
- IP67 grade, 170(d) wide angle, IR camera
- Back-gear signal output

❏ Emergency event button. / MOSS-FS-10M

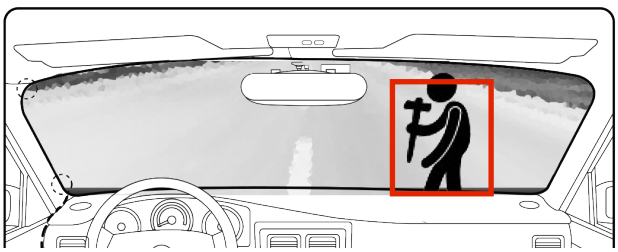
- SOS Foot Switch is used to make "Emergency Event File" by driver without use of his hands.
- IP54, Steel
- 10A / 250VAC

❏ Y cable. / MOSS-TCB-100



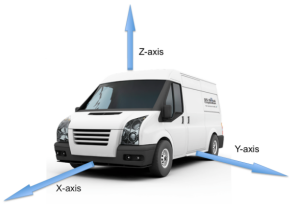
❑ *Automatic Motion-Detected Recording*

The vehicle is safely managed by detecting motion when parked and recording the surrounding situation.
Also, if the vehicle moves during a motion recording, continuous recording is automatically started.



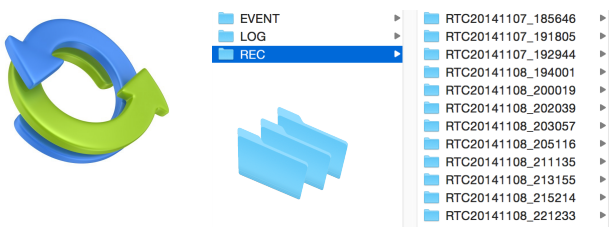
❑ *Automatic Emergency Recording*

When an impact is detected by the embedded G-sensor, the scenes from 15 seconds before the accident till 15 seconds after the accident are separately saved to conveniently secure and manage the accident images.



❑ *Cycle recording*

During recording, the video images are saved in 60 second files. If the capacity of the micro SDHC card runs short, the images from the oldest ones are automatically deleted.



❑ *Wi-Fi / LTE Telecommunication (option)*

This wireless function is optional. The FMS (Fleet Management System) Cloud service. Date: TBD.

❑ *High Speed & Performance CPU*

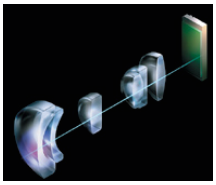
MOSS DC3 system operates stably as the image Processing time is reduced by adopting a high performance CPU (Cortex A8 800MHz), and the fast speed further strengthens the stability.

❑ *Support 128GB large memory storage*

MOSS DC3 has two (2) slots for removable micro SDHC cards each with 64GB memory support. One micro SDHC slot uses the 'Primary memory slot' and the other one uses the 'Secondary memory slot'. Removable micro SDHC card are protected via Tamperproof external case.

❑ *High-Definition HD & 6 Glass Prime Lens*

MOSS DC3 has two(2) built in High-definition HDCMOS image sensor and all glass prime lens. Glass lens outperform plastic lens in high-temperature environments. Glass lens provide a higher quality recorded video image.
MOSS DC3 is recording 2 of 1280x720p resolution at 30 fps. (Front & InCabin view)

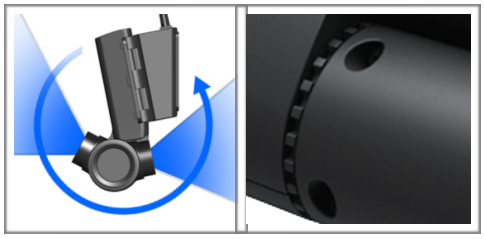


❑ *WDR & Auto Image Control Technology*

1/3" Digital HD CMOS image sensors provide automatic controls for Image quality. Automatic exposure control (AEC), Automatic gain control (AGC), Automatic black level calibration (ABLC), Automatic white balance(AWB), Automatic Wide Dynamic Range(WDR)

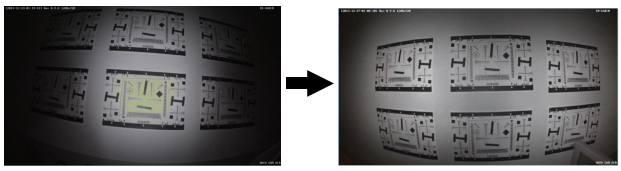
❑ *Rotatable Camera for any angle*

MOSS DC3 is designed for all types of windshields via rotatable camera modules Front/InCain's camera modules are able to lock in place via Tamperproof case.



❑ *Wide infrared Camera for Darkness*

MOSS DC3 is designed for 100% darkness environment recording of InCabin area for the safety of the driver. MOSS DC3 has wide and clear angle IR recording in the darkness.



Other IR models | Our wide angle IR View

❑ *CCTV Monitoring with Recording*

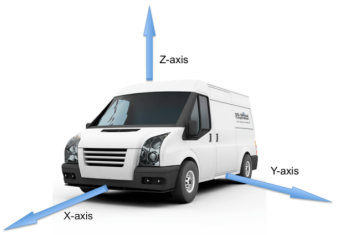
MOSS DC3 provides CCTV mode interface for Live Video monitoring at the driver's seat.
- Mode 1 : Front view
- Mode 2 : Front view & InCabin view
- Mode 3 : Front view & InCabin view & Rear view (while in rev)
- Mode 4 : Rear(Dome) view while in reverse

❑ *Built-in GPS receiver (Worldwide support)*

- Media Tek MT3337 Single Chip
- DGPS (WAAS/EGNOS/MSAS/GAGAN), QZSS support)
- GPS built in cradle
- RoHs compliant
- Google Maps use

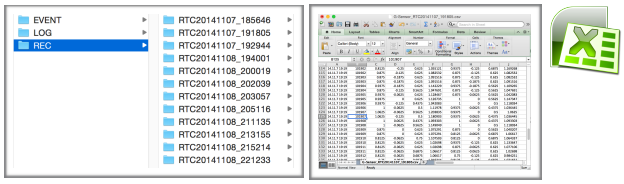
❑ *Built-in Acceleration sensor*

3-Axis accelerations sensor built-in. MOSS DC3 driving recorder is monitoring 3-Axis sensor detect for vehicle movements. MOSS DC3 is operating automatic sensor calibration in each type of vehicle.



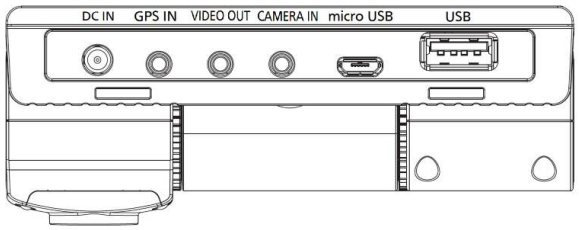
❑ *Event file folder / Data LOG*

- EVENT file : Create before 15 sec.±0.25s after 15 sec.±0.25s (total 30 sec.)
- ALL TIME file : Cycle recording (overwrite to oldest file) / 1 file's term is 1 minute.
- LOG file : G-sensor log, GPS log and Accident log are able to open by Microsoft Excel®



❑ *Several Interface Terminals*

MOSS DC3 has several interface terminals for high performance and integrates with other external devices like smartphones, tablets, wireless LTE modems, Wi-Fi modems, OBDII scanners etc.

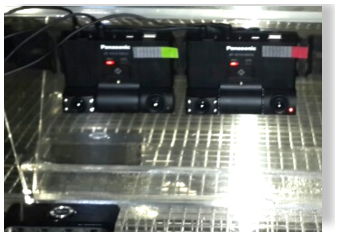


❑ *Configurations by Smart phone & PC*

MOSS DC3 is able to set up functions via smartphone application's control or PC manager by administrator or user. (Coming 2016)

❑ *High Temperature performance*

MOSS DC3 is designed for operating performance in High Temperature environments. The product has passed temperature tests between -20°C to +85°C while operating for 96 hours.



❑ *UL94-V0 Anti-Fire base material*

MOSS DC3 is designed case & PCB by fire retardant material based on UL94-V0 for Fire-protection.

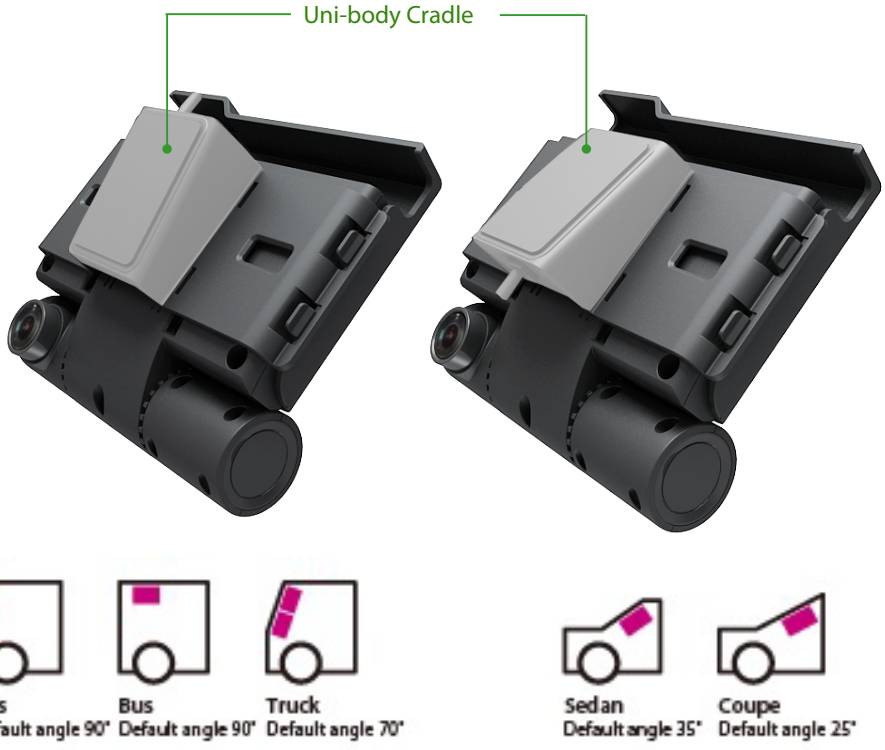
❑ Tamperproof housing plate

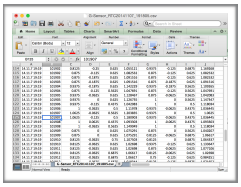
1. Joint Tamperproof case with Special shape screw

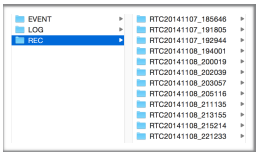
2. Lock up to All cables connection & angles of Cameras

3. Lock up to All micro SDHC card slots

❑ *Uni-body angle cradle for all type Vehicles*







Tamperproof Kit Management

The DC3 with available options:

External Rear Camera

Video-out Monitor

Emergency Event Button

External GPS Antenna

1TB SSD/HDD (coming 2016)