Dashboard Camera FHD

savv®
Absolute Auto Safety

M35
User Manual

SAVV DASHCAM is a supplemental video recording device. Read the following instructions carefully in this guide to properly use and maintain the product.

savv

FHD ADAS Night Vision WIDE VIEWING ANGLE

This device DOES NOT guarantee video recording for all accidents as the built-in impact sensor may not be activated due to user settings and the level of impact during the collision. Some of the functions may not be available depending on the installation, driving conditions, and vehicle type.

Caution before using DASHCAM

- **Do not operate the DASHCAM while driving**.
  Driving under distraction may cause an accident.

- **Do not park your vehicle under direct sunlight during hot weather when the product is installed.**
  It may cause product failure.

- **Do not touch or wipe the product with chemicals, detergents, oil, etc.**
  Gently wipe with a dry cloth after disconnecting the power.

- **Keep product from foreign materials.**
  Foreign materials in SD card port or external cable port of main body may cause product failure or malfunction.

- **Be aware that if the product is damaged or the power is cut off as a result of an accident, the video may not be recorded.**

- **Excessively tinted windows may interfere with the image recording such as brightness and sharpness of the video.**

- **Attach the cradle to the main body and mount it securely to the glass surface.**
  Failure to fit properly may cause the product to fall to damage the unit.

- **When changing the mounting position of the camera, make sure to readjust the camera angle and review the recorded file.**
  If the camera is installed in a wrong position, normal recording might not be possible.

- **The temperature below -10 °C or above 60 °C may cause malfunction during operation.**
  Please keep the unit under recommended temperature even when not in use.

- **The voltage for the device is 12 to 24 volts. Use only the standard issued hardwiring power cables or power source for this product.**

- **We recommend to use of authorized SD cards provided by SAVV and we are not responsible for any damage caused by using unauthorized memory cards.**

Precautions when using SD Card

1. SD Card warranty

- **The SD card has limited lifespan and it needs to be periodically inspected or replaced.**

- **The warranty period of the SD card supplied by our company is 90 days.**

2. How to manage SD Card

- **Make sure to turn the power OFF before removing the SD card.**

- **If you remove the SD card while product is on, the stored data may be damaged or lost.**

- **The SD card or product can be damaged if you insert the card with excessive force or if inserted in the opposite direction.**

- **Periodically check the data stored on the SD card to see if the DASHCAM is operating properly.**

- **In case of accidental or manual power off during recording, data will not be saved in SD card.**

- **Please store important data separately. Make sure to store it in another storage device. (HDD, CD, USB card, etc.)**

- **Depending on the season, the temperature inside the vehicle can rise due to direct sunlight, causing the temperature of SD card to rise. Please park your vehicle in cooler/shady areas to prevent date loss.**

Precaution with ADAS Functions

• The GPS must be connected to the satellite in order to be operated properly.

• If the front camera has poor image conditions (listed below) the lane and vehicle information may not be detected.

- When windshield is damaged, contaminated or covered with dirt, snow or ice

- When camera lens is frosted or covered with debris

- When driving through winding, hilly roads or sharp curved road with inconsistent lane visibility

- In case of poor lane visibility due to fog, rain, or snow.

- In case of roads with complicated lanes such as busy intersection or highway in rural are.

- In case of sudden change of light conditions such tunnel, underground parking lots, under bridges.

- In case of light direction change such as direct sun light to camera lens or reflection directly to camera lens

- When headlights or windshield is not properly cleaned May not operate normally in severe weather conditions

- When DASHCAM is not installed near the top center of the front windshield or the camera lens angle is incorrect.

  (e.g. installed far left, far right, bottom near dash board, etc.)

Paring remote control

1. How to pair remote control

- Insert battery into the slot.

- Turn on the power of the DASHCAM while depressing remote control until display appears on LCD screen.

- Press remote control to check

2. How to use remote control

- Short click remote control (less than 1 second) is to save screenshot image in DASHCAM,

- Depress remote control (more than 3 second) is to record video in DASHCAM.

- There will be a shutter click sound.

1. Product warranty and liability

The entire risk arising from the failure to comply with the instructions specified in the user manual remains with the user and we assume no responsibility.

Data loss, or other occurrences of accident and vehicle damage while using the product are the responsibility of the user.

Depending on the driving environment of the vehicle or the influence of external devices, some features may not be supported and as a result, normal video recording may not be possible. Use DASHCAM as an auxiliary means to check the driving image.

The SD card requires continuous maintenance. Any damage incurred by the user is your user's responsibility. SAVV Automotive is NOT responsible for any problems arising from

1.   Any indication of unauthorized modification of original power cable supplied.

2.   Using Non-certified cable as power source

3.   In case of product malfunction or fire due to abnormal voltage and current of the vehicle battery

2. Miscellaneous cautions

This product is designed for the specified voltage and use. If this is not observed, it may cause product breakdown and may cause a fire.
If the user disassembles and repairs arbitrarily, defects that occur are not eligible for warranty service at no charge. For your safety,
Do not bend the power cable excessively
Do not use a damaged power cable.
If the wiring finish is unstable, it may cause product malfunction and may cause a fire.

3. Check before installation

Please do not cut a power cable or remove fuses during installation

1. Power cable connection

① B+ Fuse : Connect this line to positive (+) post of the battery that provides
              continuous power supply.
② ACC Fuse : Connect this line to ACC
③ GND   : Connect this line to a chassis ground on the vehicle. Make sure the
              connection is made
              to mare metal

* Please carefully check B+, ACC, GND labels on the cable before installation.

Power Cable
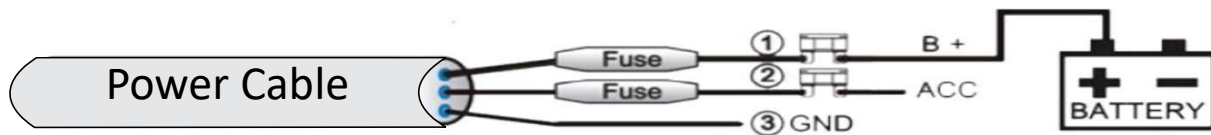
**This product provides continuous recording in driving /parking mode.
Make sure to connect B+ line to
battery for continuous recording. No recording will be made
if B+ and ACC wire are connected to ACC only.**

2. Check installation

① Check if wiring is connected correctly.
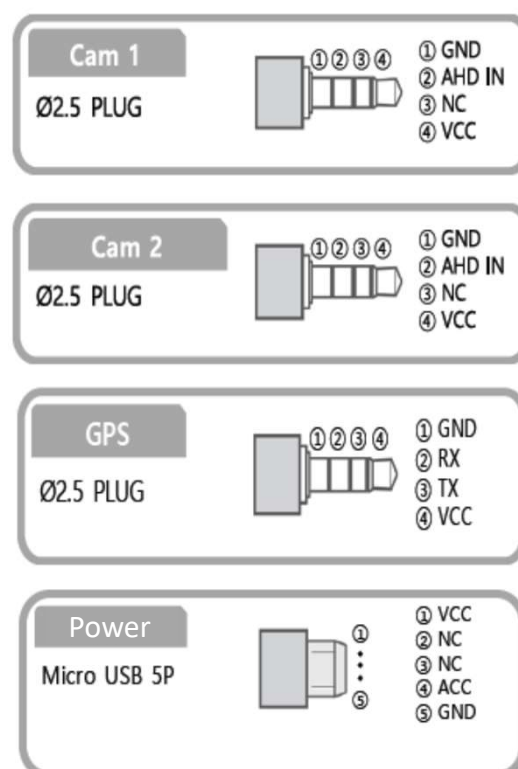② Make sure all connection is securely fastened.

Specification

Recording	Continuous / Event / Manual / Parking
Sensor	1920 x 1080 CMOS
LENS	Front: 1/2.7", 6G, Viewing Angle 146°
	Rear : 1/3", 4G, Viewing Angle 130
Output	3.5" Wide TFT LCD (480x 320
Resolution	Front : FHD (1920x1080) 30fps
	Rear : FHD (1920x1080) 30fps
Input	Capacitive Touch
Audio	Internal Microphone
G Sensor	G Sensor (3 Axis)
Voltage	DC 12V/ DC 24V
Size	109mm x 69.5mm x 31mm

SPEC	Micro SD / Class 10 (MLC Type)	
32GB	Size(Allocation ratio)	Rec. time / File
Driving mode	약 16G (50%)	115 min / 60 sec
Event mode	약 6.4G (20%)	45 min / 30 sec
Manual mode	약 3.2G (10%)	23 min / 30 sec
Parking mode	약 6.4G (20%)	45 min / 30 sec

Event Rec : 10 sec before, 20 sec after collision.
Manual Rec : 10 sec before, 20 sec after execution
Parking Rec : Records when motion is detected

IN / OUTPUT Pin Configuration

We cannot guarantee the normal operation and warranty service if you don't use parts provided by SAVV. Please contact an authorized dealer or distributor to purchase optional parts if needed.

Cam 1
Ø2.5 PLUG
① ② ③ ④
① GND
② AHD IN
③ NC
④ VCC

Cam 2
Ø2.5 PLUG
① ② ③ ④
① GND
② AHD IN
③ NC
④ VCC

GPS
Ø2.5 PLUG
① ② ③ ④
① GND
② RX
③ TX
④ VCC

Power
Micro USB 5P
①
⋮
⑤
① VCC
② NC
③ NC
④ ACC
⑤ GND

Defect Analysis before Contacting Service Center

I cannot record in parking mode

In parking mode, continuous recording is not possible but only when motion and G sensor are detected.

Check configurations in Settings>Other Settings>Parking Mode.

The LCD screen keeps turning off

The screen will automatically turn off after initial set time.

Screen OFF and video recording are irrelevant but recording continues even when screen is OFF. You can change the settings in Settings>Display> LCD Off Time.

Rear camera / GPS doesn't connect

First connect the device before turning it on, then it should work properly.

The SD card does not read

The metal part of the memory card may not be in proper contact due to foreign substance.

Please wipe it with a dry cloth or eraser and try again.

The video file has been erased

If there is not enough space for each folder the memory management function will delete the oldest files first and save the latest video file.

Down load to keep important files separately.

I cannot see the parking light

The light may look cloudy during the day.

Check configurations in Settings> Other Settings> Parking LED setting.

I keep getting alerts during driving

A beep sounds when the G senor detects a shock. Please adjust the sensitivity of

G sensor in Settings> Sensor Settings. Also check the rear camera connection status / memory card insertion status.

A beep may sound if the connection status and insertion status are not normal.

The product keeps rebooting

The Device will reboot when the rear camera connection or inserted memory card are unstable.

Check the rear camera connection status

memory card insertion status.

The video is blurred

The video may come out blurred due to foreign substances in the windshield or the camera lens.

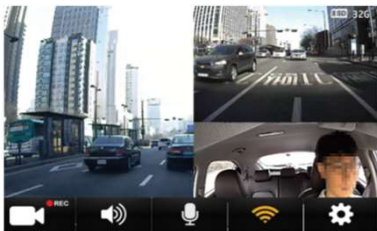Please clean the windshield and camera lens before use.

Key Features

You can see video in real-time on the LCD monitor including date, time and information.
Function keys will appear by touching the screen
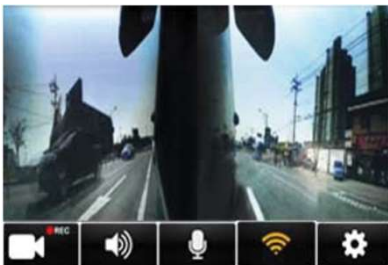
1.Real-Time Screen Switch

M35-F (2CH)

M35-H2 (3CH)

M35-S2,T2 (3CH)

Check model numbers for feature details

LCD DISPLAY
FRONT/CAM1/CAM2---FRONT---CAM1---CAM2
---CAM1/CAM2---FRONT/CAM1/CAM2

LCD DISPLAY
FRONT/SIDE1/SIDE2--FRONT--SIDE1--SIDE2--
SIDE1/SIDE2--FRONT/SIDE1/SIDE2

2. Manual Video Recording

 You can immediately record the current image at any time

3. Manual Video Recording

 Click on the menu button to change product settings

4. Voice Guidance and Recording

Voice Guidance ON   Voice Guidance OFF

Voice Recording ON   Voice Recording OFF

5. Wi-Fi Control

To use the Wi-Fi feature, search for "DASHCAM3" in Google Play Store or Apple App Store on your smart phone, download and install it
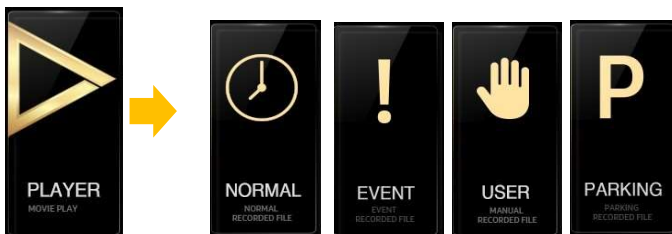

Wi-Fi ON   Wi-Fi OFF
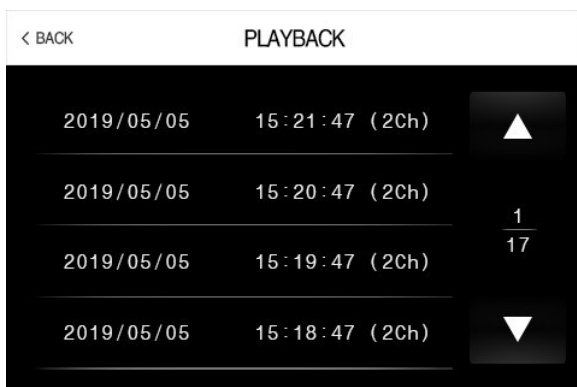
6. Menu > Screen Settings

Details of LCD Setting

1. LCD brightness control Levels 1~3 available.
(higher level is more brighter)

2. LCD OFF time Setting
- Set automatic LCD OFF time.
(turn OFF after 30 sec, clock mode after 30 sec, turn OFF after 3 min, always ON)

7. Menu > Player

You can review the recorded videos if you press the button of each storing directory

< BACK   PLAYBACK

2019/05/05	15:21:47 (2Ch)
2019/05/05	15:20:47 (2Ch)
2019/05/05	15:19:47 (2Ch)
2019/05/05	15:18:47 (2Ch)

1
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The file format is in following order :
"Year>Month>Day>Hour>Minute>Second> Camera Channel>Recording Mod>Camera Location".
Touch the recorded file to play video

Play previous file   Play next file
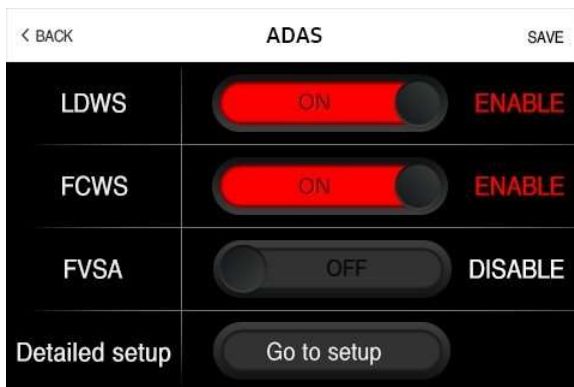
Pause   Play

Backward 5 sec

Forward 5 sec

Change the playback channel.
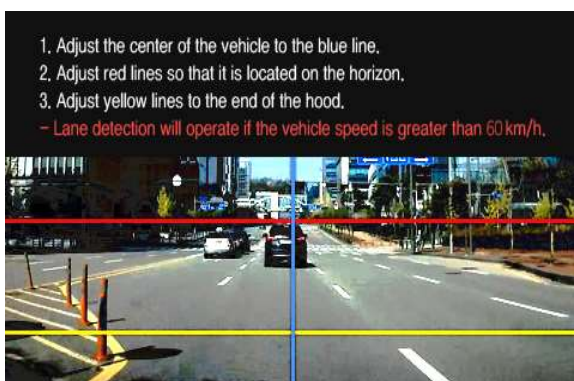(When external camera is
 connected)

8. Menu > ADAS (Advance Driving Assistance

The product supports Lane Departure Warning System, Forward Collision Warning System, and Forward Vehicle Start Alarm functions of ADAS.
The ADAS LDWS, FCWS, and FVSA functions notify the driver accordingly in order to prevent any accidents while driving.

The ADAS functions can only be operational when a GPS is connected to the device and will be activated in the following conditions
FVSA: when front of your vehicle is departing but your vehicle is not moving
FCWS: when speed is over 9.3mph (15km/h)
LDWS: when speed is over 43.5mph (70km/h)

You can enable the ADAS functions in this menu. You can go to Detail Setup to establish installation settings.

1. Adjust the center of the vehicle to the blue line.
2. Adjust red lines so that it is located on the horizon.
3. Adjust yellow lines to the end of the hood.
- Lane detection will operate if the vehicle speed is greater than 60 km/h.

Blue line: Align at the center of the vehicle
Red line: Align at the ground level
Yellow line: Align at the tip of your hood

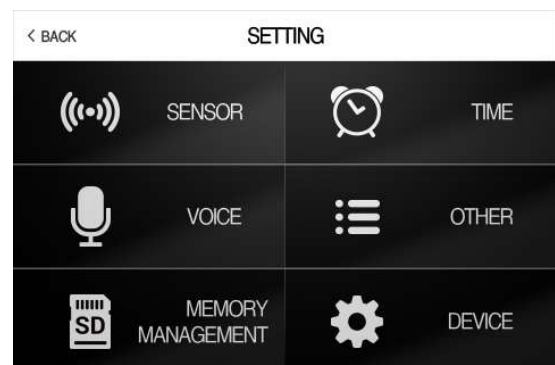Select the color of the line you like to move, touch to move up, down, left, right

Adjust the lines at flat ground surface for the best accuracy

9. Menu > Setting

You can set up features of the DASHCAM from this menu.

SENSOR SETUP

Adjusts the G-Sensor sensitivity by choosing from three levels: high, medium, and low.

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Parking Sensor Sensitivity	− ‖‖‖‖‖ LOW +

Adjust the sensitivity of parking recording by choosing from three levels: high, The higher sensor is set, the more recording will be performed.

NIGHT VISION	ON ENABLE

When night vision is enabled, the brightness of the night recording will be improved.

※When using night vision, screen noise may also increase.

TIME SETTING

‹ BACK	TIME SETTING	SAVE
2019 YEAR	5 MON	16 DAY ▲
14 HOUR	57 MIN	36 SEC ▼
DST OFF		GMT+09
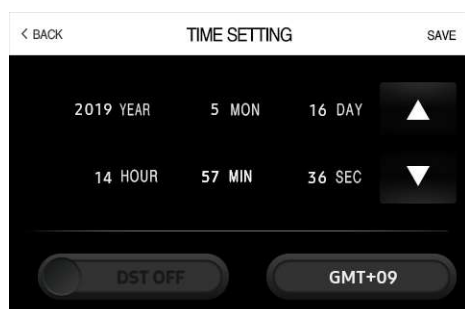
You can set the date and time.
Select the item you want to set
(year / month / hour / minute / second)
by scrolling △▽ buttons. When GPS is linked, the time will be automatically set.

GMT is required to be set by users based on country / city location

VOICE GUIDANCE SETUP

SPEAKER	ON ENABLE

Voice guidance can be set.
Voice guidance stops when you select Off

VOICE RECORDING SETUP

VOICE REC.	ON ENABLE

Voice recording can be set. If you select Off, Voice recording is not available.

VOLUME SETUP

VOLUME	− ‖‖‖‖‖ LV2 +

The volume increases as the level increases

MISCELLANEOUS SETUP

LOW VOLTAGE	◀ 12.0V / 24.0V POWER OFF ▶

11.8V / 12.0V / 12.2V / 12.4V / 23.8V / 24V / 24.2V / Continuous, event, parking, user priority mode selection is available. When battery voltage becomes below the pre-set value in the parking mode, DASHCAM will be turned off automatically.

PARKING MODE ON USE

PARKING MODE	ON ENABLE

You can select whether to use the parking mode. If you select Off, no parking mode is performed and the DASHCAM will be turn off automatically.

! **This feature is available ONLY for the vehicle with constant power connected.**
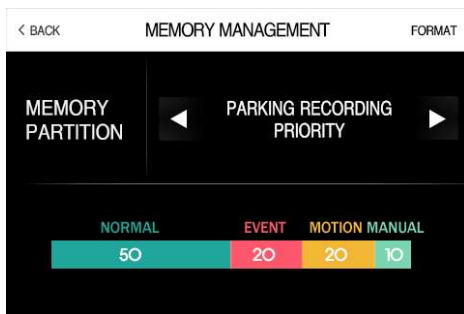
PARKING LED ON USE

PARKING LED	ON ENABLE

You can select for front parking lamp to be activated. When OFF is selected, parking lamp will not be activated.
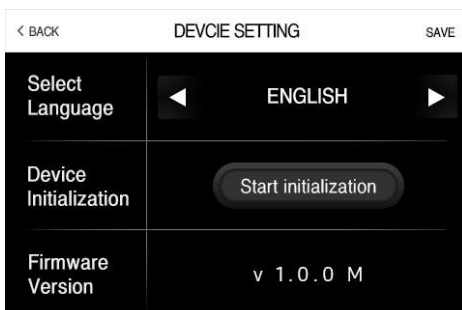
SD CARD FORMAT

You can manage storage space of SD card according to your preference.

Continuous, Event, Parking, User priority mode selection is available. After selecting the mode, click the Format button, it will be prompted for FORMAT confirmation.

GENERAL SETTING

Select language
English, Korean, Chinese, Japanese supported

Reset
Resets User settings

Firmware version
Check the software version applied to the unit.

PROGRAM INSTALLATION

Firmware Update -Smart phone

1. Download and RUN the DASHCAM3 app.
2. Connect your smart phone and the DASHCAM via Wi-Fi.
3. Choose Firmware Update from the menu and click to down load updated firmware. (Use data when Wi-Fi disconnects.)
4. When the download is complete, reconnect to the DASHCAM and run the app.
5. Press the OK button to update the firmware when Update window appears from the menu.

Firmware Update -SD Memory Card

1. Download and extract the firmware from customer support of www.savv.com
2. Insert the memory card to your PC and format it.
3. Copy the extracted file to the memory card.
4. Remove the memory card from your PC and insert into the DASHCAM then turn on the power.
5. If firmware is detected from the memory card, the firmware update will be processed.

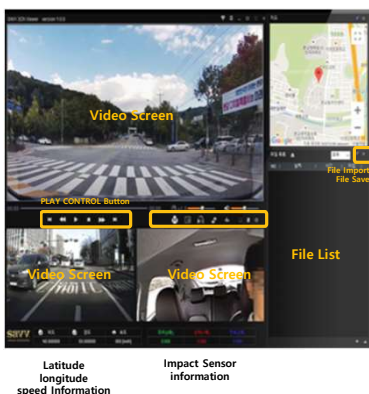**!** If you fail, format your memory card first and repeat the process.

If video does not play, please install CoreACC Codec.
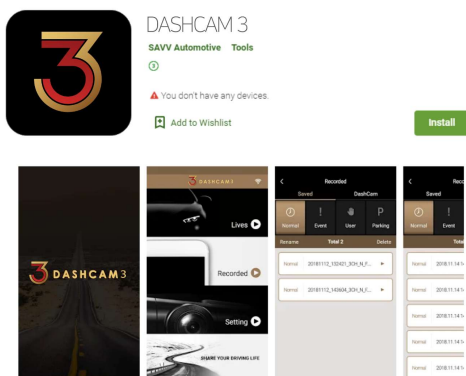
Using PC Viewer

2Ch PC Viewer

3Ch PC Viewer

Video Screen

File Import
File Save

PLAY CONTROL Button

File List

Video Screen   Video Screen

Latitude
longitude
speed Information

Impact Sensor
information

DASHCAM3 APP INSTALLATION

SAVV DASHCAM supports Android and IOS.
Search for "DASHCAM3" for smart phone app.
n the Google Play Store and Apple App Store
to download.

When the DASHCAM is running,
it can be synchronized with Dashcam3
app only when both are linked with
Wi-Fi (Refer to Product Functions →
Wi-Fi).
Depending on the communication
status, there may be a deviation in
the link time with the smart phone app,
link could be interrupted. Depending
on the type and specification of the
smart phone, some features such as
downloading, playing recorded video,
current video may not be supported.

①Select Wi-Fi Menu
②Select DASHCAM3 from the list
③Input password -- Default password
  "00000000" 8-0s
④Activate Wi-Fi
⑤Run DASHCAM3 App

In order to prevent others from
linking with your DASHCAM, be sure
to change the password.
When you change your Wi-Fi
password or name, the DASHCAM will
reboot. Please use NEW password to
link with the DASHCAM. You can
reset the password by performing
initialization of the DASHCAM.

USING DASHCAM3 APP

1. Main Menu

Live Video
You can check the live video of the DASHCAM.
When connecting additional cameras other than the front camera, you can check the live video of all cameras using the (multi-channel) switch button. Use the capture button to check the currently displayed screen. You can also save still images (jpg) in the DASHCAM.

Recorded Video
You can play and download the video recorded in DASHCAM.
Recorded video stored in the smart phone and DASHCAM can be played. During playback use the button to switch to recorded in multi-channel. You can choose to save in your smart phone.

SETTING
You can set the menu according to your preference

2. Live Video

BACK
Back to main menu

SCREEN SHOT
Captured screen shot can be saved in memory card PHOT folder of the DASHCAM

VEDEO SELECT
In the multi-channel mode, you can check the current video of all cameras connected to DASHCAM

! **While checking the LIVE video, the recording of the DASHCAM does not stop.**
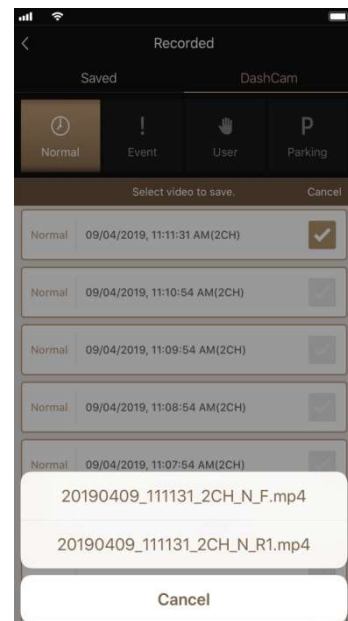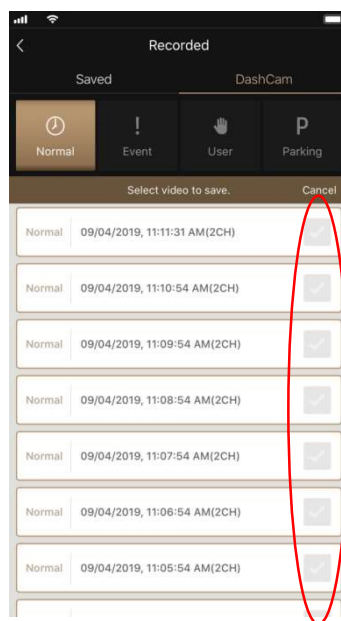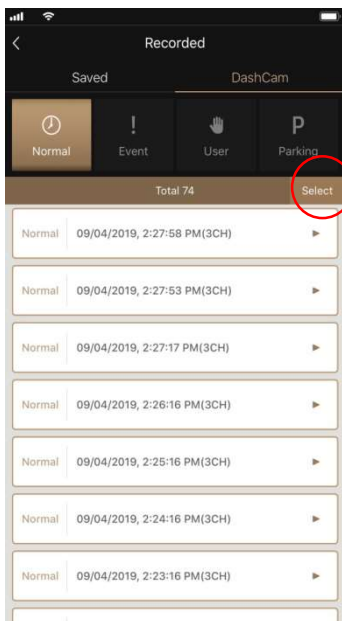
3. Recorded video>DASHCAM Video

DASHCAM Video
You can check the recorded video saved video in the DASHCAM.
Recorded video is divided into CONTINUOUS / EVENT / PARKING mode recording.
Click the file in the playlist to play the recorded video.

Downloading recorded video file from DASHCAM
Click SELECT button
Select the file you want to save
In case of multi-channel file, you can select the recorded video file of the channel you want to save

4. Recorded video>DASHCAM Video

**While viewing recorded video file, DASHCAM recording will be STOPPED.**

5. Recorded video>Saved Video

Saved Video

You can check the video on your smart phone from the DASHCAM.
Downloaded video is saved in order of CONTINUOUS / EVENT / PARKING
mode recording.
Click the file in the playlist to play the recorded video Click the Rename File button
to change the file name of the saved video.
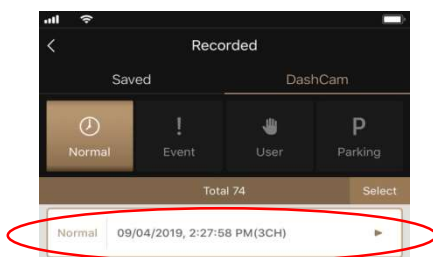
Exit
Going back to Saved video
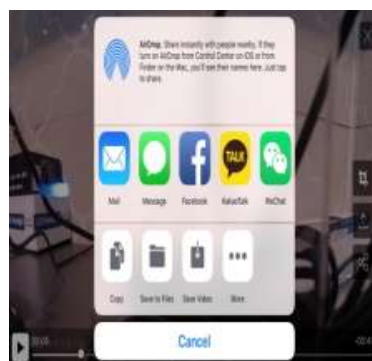**Edit**

SHARE / SNS

Edit

You can select specific part of
the saved video to save it as
a new file. While viewing the
edited video, additional
editing in real time is possible.

SHARE / SNS
You can share video through
social network service (SNS)

When sharing video files, Wi-Fi
connection will be disconnected
with DASHCAM and video data
transmission charge may occur.

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KEY FEATURES

FULL HD + HD high definition image quality
Provides clear and natural high quality images

Built in Wi-Fi
Automatic Wi-Fi connection to smart phone for recording live video and save

Capacitive Touch LCD Panel
3.5"Capacitive touch LCD with same touch as smart phone
Check recorded video on site with 3.5" LCD

Wireless remote control
Easy, convenient and portable remote control allows you to record when you want

Super night vision
Maximizes image brightness in low light environments such as night driving and parking

Format free support
No periodic memory card format required for secure video file recording

ADAS
Advanced Driving Assistance System with GPS connected
Lane Departure Warning System,
Forward Collision Warning System,
Front Vehicle Start Alert
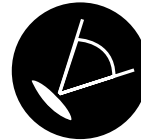
CONTINUOUS / EVENT / PARKING mode recording
Optimized recording method for various circumstances

KEY FEATURES

External GPS
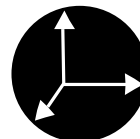Accurate location, time, recording information. driver assistance system available.

Wide view angle
Wide viewing angle without worrying about blind spots. Wide viewing angle allows easy checking of accidents and surroundings

30 FPS recording
30fps recording on each camera, and clear picture quality.

3 Axis G sensor
With 3-axis G sensor, you can save event video without missing a small shock

Multi language support
4 language support
English, Korean, Chinese, Japanese voice guidance and prompts change to selected language when language is changed
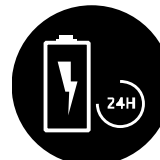
Automatic low battery discharge prevention
Checks the voltage of the vehicle and cuts off the power automatically when it is below the pre set voltage
(available in Parking mode only)

Thermal protection
Automatically detects the vehicle's internal temperature and automatically cuts off power at high temperatures
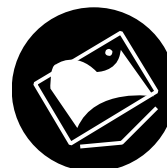
Image distortion correction
Automatically corrects the distortion recorded from Wide-angle to provide clear images

BASIC PRODUCT CONTENTS

1. Product Description

Rear camera input terminal 1,2 · cradle connection · DC IN power input terminal · GPS terminal · GPS status light · power button

front camera lens · speaker · security LED · memory card slot · status indicator · capacitive touch screen

FHD ADAS Night Vision WIDE VIEWING ANGLE

2. Basic Contents in common

Fount Camera/Main Unit

Adhesive Cradle

User Manual

Remote Control

Power Cable

Micro SD Memory And Adapter

GPS

Sold separately

3. Contents per model

FULL-HD Rear Camera
M35-F

HD Rear Camera
M35-H2

Indoor IR HD Camera
M35-H2

Real Camera Cable
M35-H2

Side HD Camera
M35-S2

Side Camera Cable
M35-S2

Side IR HD Camera
M35-T2

Side Camera Cable
M35-T2

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INDIVIDUAL PRODUCT DESCRIPTION

1. M35-F (2CH)

Attachable Cradle

Power Input

Rear Camera Lens

Security LED

2. M35-H2 (3CH)

Attachable Cradle

Power Input

Rear Camera Lens

Security LED

IR Sensor

Indoor Camera Lens

SPECIFICATION

Camera	Front 2.0M Pixel, 6G, 1 / 2.7 ", Rear: 2.0M Pixels, 6G, 1/3"
Display	3.5-inch wide TFT LCD (480x320), capacitive touch
Resolution	Front: FHD (1920x1080) Rear: FHD (1920x1080)
Memory	32/64/128GB SD Memory
Recording method	Continuous recording, event recording, manual recording, parking recording (parking mode)
Number of recording frames	Up to 30 frames simultaneously
Audio	Pulse code modulation (PCM)
Acceleration sensor	G sensor (3-axis acceleration sensor)
GPS	External GPS (optional)
Power	Input Power: DC 12/24 (11.8 / 23.8 ~ 12.4 / 24.4 selectable)

SPECIFICATION

Camera	Front 2.0MP, 6G, 1/2.7" Rear 1.0MP, 4G 1/4" Indoor (IR): 1.0MP, 4G, /1/4"
Display	3.5-inch wide TFT LCD (480x320), capacitive touch
Resolution	Front: FHD (1920x1080) Rear: HD (1280x720) Indoor (IR): HD (1280x720)
Memory	32/64 / 128GB SD Memory
Recording method	Continuous recording, event recording, manual recording, parking recording (parking mode)
Number of recording frames	Up to 30 frames simultaneously
Audio	PCM(Pulse code modulation)
Acceleration sensor	G sensor (3-axis acceleration sensor)
GPS	External GPS (optional)
Power	Input Power: DC 12/24 (11.8 / 23.8 ~ 12.4 / 24.4 selectable)

INDIVIDUAL PRODUCT DESCRIPTION

3. M35-S2 (3CH)

Left/Right Side Camera Lens

4. M35-T2 (3CH)

Left/Right Side IR Camera Lens

SPECIFICATION

Camera	Front 2.0MP, 6G, 1/2.7", Left/Right: 1.0MP, 5G, 1/3"
Display	3.5-inch wide TFT LCD (480x320), capacitive touch
Resolution	Front: FHD (1920x1080) Side: HD (1280x720)
Memory	32/64 / 128GB SD Memory
Recording method	Continuous recording, event recording, manual recording, parking recording (parking mode)
Number of recording frames	Up to 30 frames simultaneously
Audio	PCM(Pulse code modulation)
Acceleration sensor	G sensor (3-axis acceleration sensor)
GPS	External GPS (optional)
Power	Input Power: DC 12/24 (11.8 / 23.8 ~ 12.4 / 24.4 selectable)

SPECIFICATION

Camera	Front 2.0MP, 6G, 1/2.7", Left/Right: 1.0MP, 4G, 1/3"(IR)
Display	3.5-inch wide TFT LCD (480x320), capacitive touch
Resolution	Front: Full HD (1920 x 1080), Left/Right: HD (1280 x 720) Infrared
Memory	32/64 / 128GB SD Memory
Recording method	Continuous recording, event recording, manual recording, parking recording (parking mode)
Number of recording frames	Up to 30 frames simultaneously
Audio	PCM(Pulse code modulation)
Acceleration sensor	G sensor (3-axis acceleration sensor)
GPS	External GPS (optional)
Power	Input Power: DC 12/24 (11.8 / 23.8 ~ 12.4 / 24.4 selectable)

CAUTION

LED & Voice Guidance

LED Status		Front	Rear	Voice Guidance
Continuous		Flash sideway (1 sec interval)	BLUE LED ON	Recording begins
Event		Flash sideway (0.5 sec interval)	BLUE LED ON (0.5 sec interval)	BEEP Sound
Parking mode	No Detection	Flash sideway (1 sec interval)	LED OFF	
	Event detected	All LED ON (0.5 sec interval)	BLUE LED ON (0.5 sec interval)	BEEP Sound
	Motion detected	All LED ON (0.5 sec interval)	LED OFF	

DASHCAM Status		Front	Rear	Voice Guidance
Recording stop		LED OFF	BLUE LED ON	Recording ends
Firmware Update		ALL LED ON	BLUE LED ON (2 sec ON, 1 sec OFF)	Firmware update begins
SD Card format		ALL LED ON	BLUE LED ON (2 sec ON, 1 sec OFF)	Memory card format begins
Side camera connect / disconnect		LED OFF	BLUE LED ON	BEEP Sound
SD Card insert / removal		NO CHANGE	BLUE LED ON	Please check your memory card
GPS	Connect	NO CHANGE	GPS BLUE LED ON	
	Signal reception	NO CHANGE	GPS BLUE LED ON	GPS Connected
	Disconnect	NO CHANGE	GPS BLUE LED OFF	

Limited Warranty

What is Covered

1. SAVV Automotive warrants that its SAVV product, and the component parts thereof, will be free of defects in workmanship and materials for a period of 12 month from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser, provided that the product is utilized within the U.S.A.

2. SAVV Automotive will, without charge, repair or replace, at its option, products or component parts upon delivery to the SAVV Automotive Service department, accompanied by proof of the date of first consumer purchase, such as a copy of a sales receipt.

3. You must pay any shipping charges required to ship the product for warranty service, but the return charges will be pre-paid by SAVV Automotive if the product is repaired or replaced under warranty.

4. Components and consumables other than the main unit are covered by a separate warranty period.(The warranty period of SD card is 90 days)

What is NOT Covered

1. To any product damaged by water, drop or any type of accident.

2. In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs.

3. If the serial number has been altered, defaced, or removed.

4. If the owner of the product resides outside the U.S.A

Miscellaneous

1. Back up your video files before you send for service as all units for repair will be re-formatted and data loss may occur during re-format process.

2. SAVV Automotive is not responsible for the loss of data.

3. The copyright in all the images in the video belongs to the user and SAVV Automotive has no rights or obligations with respect to the video

4. SAVV Automotive is not responsible in any case for any legal problems related to video type, data loss.

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Absolute Auto Safety