

Optional add-ons

<p><b>DC5000A</b></p>  <p>d'Action 360<sup>360</sup></p> <p>360°x360° model</p>	<p><b>DC201A</b> Parking Option 12V/24V</p> <p>Supports both DC 12V and 24V</p>  <p>Wiring unit with a voltage monitor for DC5000A Parking Option.</p>	<p><b>DC101A</b> Battery Option</p>  <p>Includes a battery pack and a lens cover for DC5000A. The battery pack allows for an approximately 65-minute continuous recording.</p>	<p><b>DC3A/DC4A/DC5A</b> d'Action genuine microSD card</p>  <p>Genuine microSD cards for d'Action 360 dash cams</p> <p>DC3A : 32GB DC4A : 64GB DC5A : 128GB</p>
<p><b>DC3000A</b></p>  <p>d'Action 360<sup>360</sup></p> <p>360°Hemi model</p>	<p><b>DC200A</b> Parking Option</p> <p>DC 12V Only *</p>  <p>Wiring unit with a voltage monitor for DC3000A Parking Option.</p>	<p><b>DC100A</b> Battery Option</p>  <p>Includes a battery pack and a battery charger for DC3000A. The battery pack allows for an approximately 50-minute continuous recording.</p>	<p><b>DC300A</b> Splash Proof Case</p>  <p>A splash-proof container for DC3000A, ideal for snowboarding activity.</p>

\*Please purchase DC201A when using Parking Option for DC3000A with a DC 24V vehicle.

Approximate recordable time

Either of two patterns can be selected for the memory card partition.

DC5000A	Recording mode	Recording type	Partition type: Driving Priority (Default setting)			Partition type: Action Priority		
			32GB	64GB	128GB	32GB	64GB	128GB
	Continuous Recording + Parked Continuous Recording	360° x 360°+ Front	34 mins	70 mins	141 mins	12 mins	26 mins	53 mins
	Impact Recording	360° x 360°+ Front	11 times	22 times	46 times	11 times	22 times	46 times
	Parked Impact Recording (Continuous Recording mode)	360° x 360°+ Front	6 times	13 times	27 times	6 times	13 times	27 times
	Parked Impact Recording (Impact / Energy Saving modes)	360° x 360° only (approx. 7.3 MP)	27 times	55 times	112 times	27 times	55 times	112 times
	Manual Recording	360° x 360°+ Front	7 mins	15 mins	31 mins	28 mins	58 mins	118 mins
		360° x 360° only (approx. 4.1 MP)	11 mins	24 mins	49 mins	44 mins	90 mins	182 mins
		360° x 360° only (approx. 7.3 MP)	6 mins	12 mins	26 mins	23 mins	48 mins	97 mins
	Still Image Capture	360° x 360° only	35 images	72 images	147 images	54 images	109 images	221 images

DC3000A	Recording mode	Recording type	Partition type: Standard (Default setting)				Partition type: Continuous Recording Priority			
			16GB	32GB	64GB	128GB	16GB	32GB	64GB	128GB
	Continuous Recording	Full HD equivalent	22 mins	49 mins	102 mins	208 mins	63 mins	135 mins	281 mins	572 mins
	Impact Recording / Parked Recording: Full HD equivalent	Impact Recording / Parked Recording: Full HD equivalent	8 mins	19 mins	39 mins	80 mins	15 mins	32 mins	66 mins	136 mins
		Impact Recording: Full HD equivalent / Parked Recording: 4K equivalent	2 mins	5 mins	10 mins	21 mins	3 mins	8 mins	17 mins	35 mins
	Manual Recording	Full HD equivalent	55 mins	119 mins	247 mins	504 mins	10 mins	21 mins	44 mins	91 mins
		4K equivalent	14 mins	31 mins	65 mins	132 mins	2 mins	5 mins	11 mins	24 mins
	Still Image Capture	Full HD equivalent	264 images	569 images	1180 images	2400 images	26 images	57 images	118 images	240 images
		4K equivalent	63 images	136 images	281 images	572 images	6 images	14 images	28 images	57 images

\*The above recording times and number of images are provided for guidance only, and are not absolutely guaranteed values. These will vary depending on the condition of use, subject, and ambient environment.

**App and software**

Play back of captured footage requires a compatible smartphone or computer. Please check our website for the most up-to-date list of supported devices.

<https://razo-usa.com>





**About memory cards**

Before purchasing a memory card, check the requirements below.

**DC5000A:** Only use d'Action genuine microSD card (Product No. DC3A/4A/5A).

**DC3000A:** Only use the specified microSD cards. (microSDHC or microSDXC, 16GB to 128GB, UHS-I, Speed class 3, bearing the official SD Association logo)



**Cautions**

- This product is not guaranteed to record in all circumstances.
- This product is not guaranteed to produce valid evidence as proof for accidents, or to identify license plate, model or color of vehicle.
- This product should be mounted in a position that meets all vehicle safety, local and state laws.
- Camera body, Battery Option and Parking Option are not dustproof, rainproof, or waterproof.
- Before purchasing, ensure to check the "Before your purchase" on the product package or the website.

• The images are for illustration purposes. • Information in this catalog is as of December 1, 2019. • The actual products may appear differently from images in this catalog due to color modifications and to printing process. • Product specifications and appearance in this catalog are subject to change without notice for improvement.

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**RÄZO**




360° recording with two lenses, front and back

The three-way cam captures every moment in 360 degrees.

**d'Action 360**

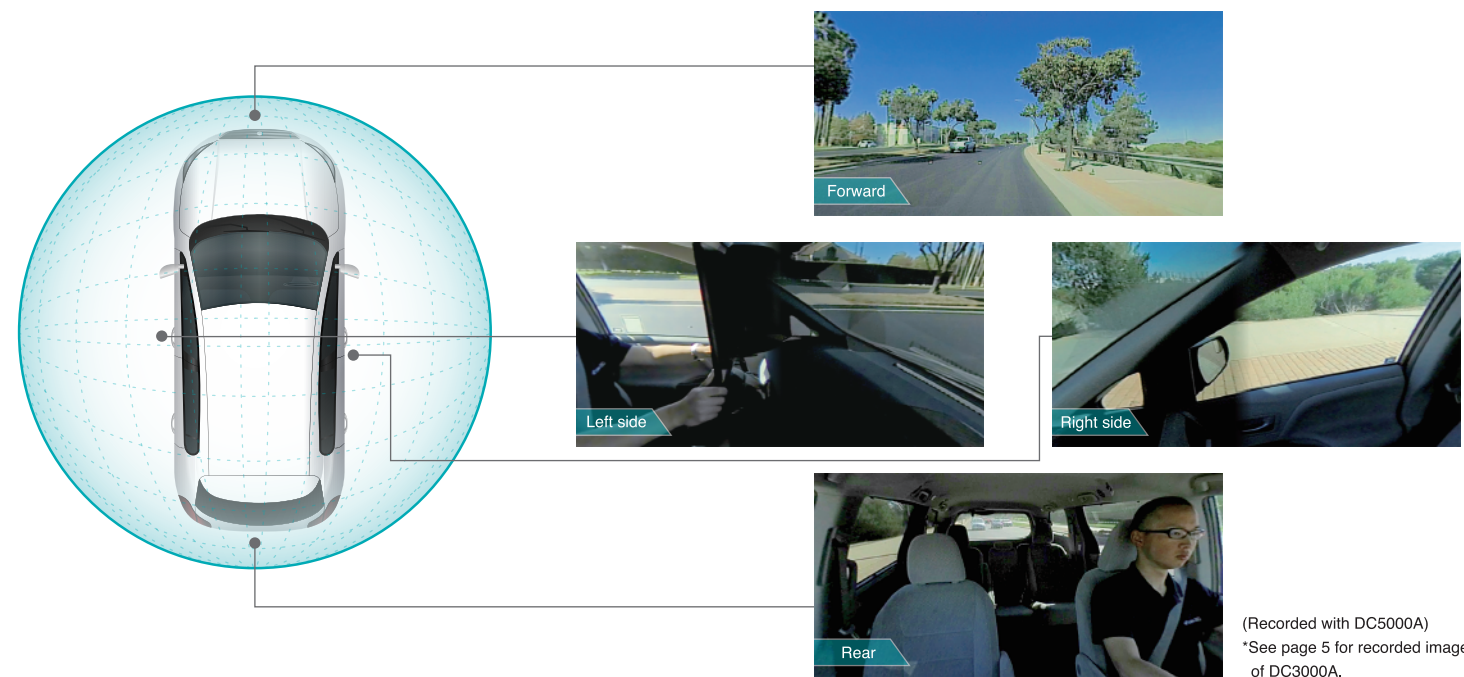
Dashboard / Action camera  
**Drive Action Recorder**

**CAR MATE MFG. CO., LTD.**





Capture everything in 360° both inside and outside of your car.



**While driving** A dashboard camera with 360° lenses, that records not only the front but both the sides and the back of your car. Blind spots for traditional dash cams, such as harassing driving behaviors in lateral directions and running red lights, can be recorded.

**While parked** By attaching a separate add-on, the camera keeps your parked car under a 360° surveillance. Door dings or rear-ending accidents can be recorded in all directions.

**Play back the recorded image clearly on your smartphone.**

The built-in wireless LAN allows for playing back video on a smartphone wirelessly. Use the app to change viewing angles for a clear, easy-to-see video playback.

\*Check the list of supported devices on page 6 for compatibility with your smartphone.

Swipe to change viewing angles.



Record with two 360° lenses

# HI-GRADE MODEL DC5000A

360°x360° model

Records in all directions with two 360° lenses



Record with one 360° lenses

# DC3000A ENTRY MODEL

360° Hemi model

Records a hemispherical area with one 360° lens



## Records in all directions with 360°x360° model

Record outside and inside of the car with dual 360° lenses. This allows you to record forward and rear facing perspective, as well as side views and the driver's footage.



### Road rage



Record driver who cause a trouble like road rage with 360° lenses. Also record the driver's footage.

Sample movie ▶



\*When smoke glass window is used, the images of rear and side views can be difficult to see.

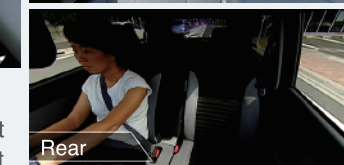
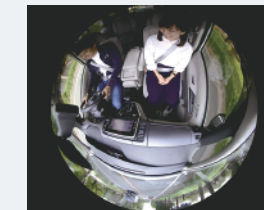
CASE

## Built-in GPS records vehicle speed and allows geotagging.



Record location information with built-in GPS. You can display vehicle speed and location on the map with your PC or your smartphone.

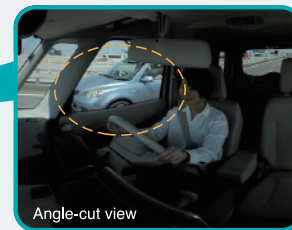
## Cover the necessary areas with 360° Hemispherical model



Since one 360° lens covers 360° around the car, it allows you to record the situation which are not recorded by conventional driving recorders, such as rushing out into traffic or crashing from adjacent lane.

## Seamless video recording

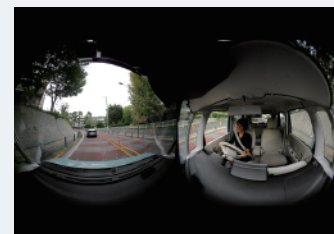
Images recorded with two lenses are combined by an image processing mechanism. You can play back recorded data as a seamless video from front to back and side to side with your PC or smartphone. In angle-cut view, you can check video data without distortion.



## Record the road ahead in higher definition

### Dual-recording function

Capture the road ahead clearly by recording the front facing footage separately in higher definition versus the 360°x360° view recording.



360°x360° View Recording



Front Recording

## Capture door dings during the time your car is parked

With Parking Option, you can get 360° surveillance, even when the engine is turned off. The camera records in all directions. Captures any possible door dings, scrapes or hit-and-run incidents.

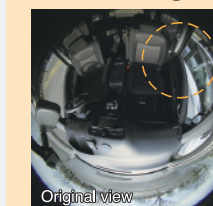
\*Parking Option is required (Sold separately)

Product No. DC200A (only for use with DC12V) / DC201A (DC12V / 24V)

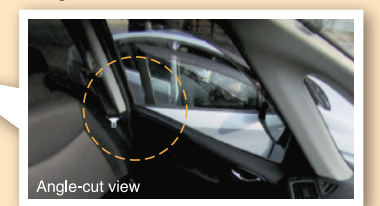


### Door ding by an adjacent car

CASE



Original view



Angle-cut view

The situation of the rear, left and right side are also recorded with 360° lens. It allows recording of door dings / hit-and-run incidents from the side.

Sample movie ▶



\*When smoke glass window is used, the image of rear and side views can be difficult to see.

## Includes a 16GB microSDHC memory card

16GB microSDHC memory card is included and ready to use. \*DC3000A only.



## DC5000A Features

- 6 recording modes (Continuous Recording, Impact Recording, Manual Recording, Still image capture, Parked Continuous Recording, Parked Impact Recording)
- Anti-theft warning LED light which is activated when impact is detected \*DC201A Parking Option is required (Sold separately)
- Parking Mode \*DC201A Parking Option is required (Sold separately)
- Play back / download the recorded videos and images wirelessly to your smartphone
- Play back recorded data on your PC with d'Action 360 S free software

## DC3000A Features

- 5 recording functionalities (Continuous Recording, Impact Recording, Manual Recording, Still image capture, Parked Impact Recording)
- Parking Mode \*DC200A Parking Option is required (Sold separately)
- Play back / download the recorded videos and images wirelessly to your smartphone
- Play back recorded data on your PC with d'Action 360 free software



# Differences between DC5000A and DC3000A



## 1. Angle of view

DC5000A can record traffic lights and road signs in the upper position in addition to them lateral to the vehicle.



## 2. License plate identification

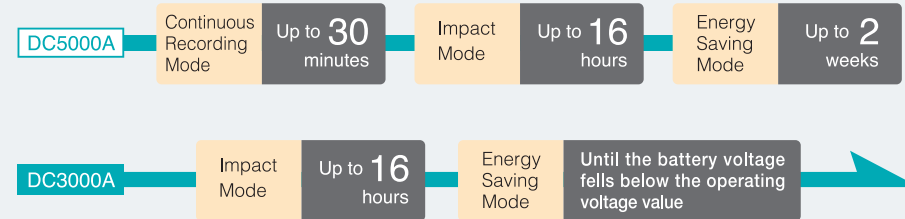
DC3000A can record the license plate of the vehicle ahead just before the crash. DC5000A can record it of the distant vehicle ahead by recording front facing footage separately in higher definition (Dual-recording technology).  
\*Recorded image quality depends on the circumstance



## 3. Parking Mode

\* Parking Option is required (Sold separately)

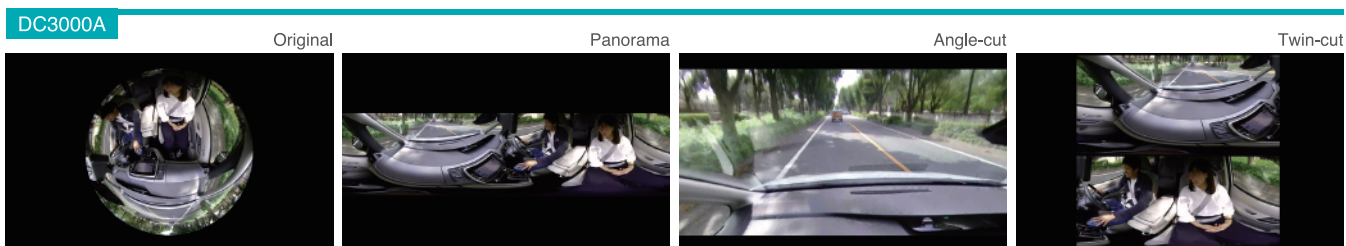
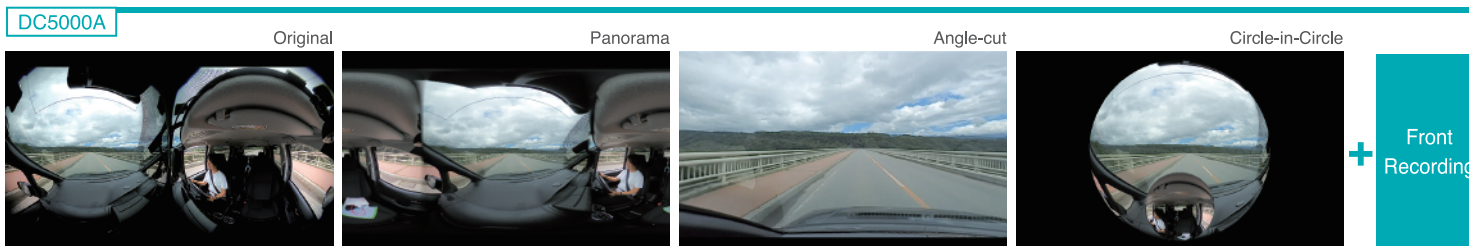
DC3000A provides a long-time parking surveillance with automatic mode switching. In addition to that, DC5000A provides Parked Continuous Recording mode. It allows recording at the situation without impact detection (Max. 30 min after turning off the engine).



\* The operation of each recording mode may change or stop due to fluctuations of the camera body temperature or the car battery voltage.

## 4. View mode

You can play back the recorded videos in easy to see 4 different views.

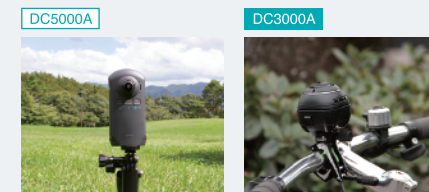


## Product specifications

Product Name / Product Number	dAction360 <sup>®</sup> DC5000A	dAction360 <sup>®</sup> DC3000A
Recording type	360°x360°	360°Hemi
Viewing Angle	Horizontal 360°/ Vertical 360°	Horizontal 360°/ Vertical 194°
Resolution	[360°x360°View+ Front recording] Approx. 4.1 megapixels + approx. 2.0 megapixels (Drive Mode or part of Parking Mode) [360°x360°View recording only] Approx. 4.1 megapixels or approx. 7.3 megapixels (Others)	Approx. 2 megapixels (Continuous recording mode or Impact recording mode) Approx. 8 megapixels (Others)
Effective pixels	Approx. 27 megapixels	Approx. 13.5 megapixels
Image Sensor	Dual CMOS 1/2.3	CMOS 1/2.3
Frame rate	Drive Mode: 27.5fps *Automatically adjusted at high temperatures Parking Mode: 13.75 / 5.2fps Drive Action Mode / Action Mode: 29.97fps	27.5fps *Automatically adjusted at high temperatures
Aperture	F2.0	
Operational Modes	Drive Mode / Drive Action Mode / Parking Mode (*5) / Action Mode (*1)	Drive Mode / Parking Mode (*5) / Action Mode (*1)
Recording Modes	Continuous recording / Impact recording / Manual recording / Still image capture / Parked Continuous recording (*5) / Parked Impact recording (*5)	Continuous recording / Impact recording / Manual recording / Still image capture / Parked Impact recording (*5)
Dual-recording function	Yes	No
Parked Continuous recording (*5)	Yes	No
Voice notification for SD card status (*2)	Yes	Yes
Parking Mode alert function	Yes	Yes
Night recording	Yes	Yes
Camera exposure adjustment	Yes	Yes
Brightness adjustment in smartphone app (*3)	Yes	Yes
Satellites	GPS, GLONASS, Michibiki Quasi-Zenith Satellite System	
Anti-theft warning LED light (Parking Mode) (*4)	Yes	No
Others	Wireless LAN, Noise reduction, LED traffic light compatible, WDR, 3-Axis G-sensor, Audio recording, Stereo microphone	
Add-ons for Parking Mode	DC201A	DC200A (Only for use with DC12V) / DC201A (DC12V/24V)
Recording media	Genuine microSD cards (sold separately, Product No. DC3A/4A/5A)	microSDHC / microSDXC (16GB to 128GB / UHS-I, Speed class 3) *Only use a microSD card that bears the official SD Association logo.
Included microSD card	No	Yes (16GB)
Video playing	d'Action app for smartphone (iOS / Android)/d'Action software for PC (Windows) *This product requires a compatible smartphone or computer. Please check the most up-to-date list of supported devices at website described below.	
Approximate current consumption (DC12V) (*6)	Drive Mode: 440mA Standby at Impact mode in Parking Mode: 165mA Standby at Energy saving mode in Parking Mode: 10mA	Drive Mode: 210mA Standby at Impact mode in Parking Mode: 150mA Standby at Energy saving mode in Parking Mode: 10mA
Operating temperature	Parking Mode: -10 to 60°C (14°F to 140°F) Drive / Drive Action / Action Modes: -10 to 40°C (14°F to 104°F)	Parking Mode: -10 to 60°C (14°F to 140°F) Drive / Action Modes: -10 to 40°C (14°F to 104°F)
Power Supply	DC12V/24V *To use Parking Option for a 24V vehicle, purchase DC201A.	
Product Warranty	1 year	

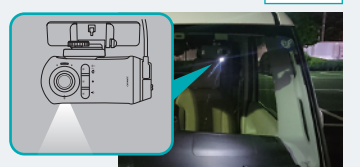
### \*1 Action Mode

With battery option (sold separately), the camera can be taken outside the car to use as a portable 360° camera. You can use general attachment via tripod socket in the bottom.



### \*4 Anti-theft warning LED light

LED light is activated when impact is detected in Parking Mode. The crime-prevention effect will be improved.



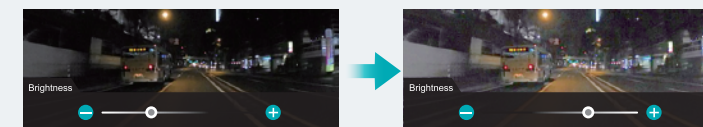
### \*2 Voice notification for SD card status

The status of SD card which are difficult to see will be noticed by voice, such as "SD card not found", "Please format the SD card".



### \*3 Brightness adjustment in smartphone app

You can play back the recorded video with changing the brightness in smartphone app. The video data at night will be visible by increasing the brightness.



**This product requires a compatible smartphone. And by using d'Action 360 software for PC, you can play back the recorded video in larger screen.**

Please check the most up to date list supported devices at website.

<https://razo-usa.com>



\* Supported devices for DC5000A and DC3000A are different. DC5000A requires higher performance devices for video processing.