INNOVV™

Protect Your Road Trip and Record Fun On The Way

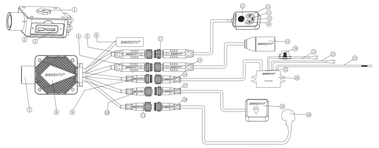
INNOVV K5 Dash Cam

Intended For Powersports
(Motorcycles, ATVs, UTVs & Others)

INNOVV K5 Product Overview

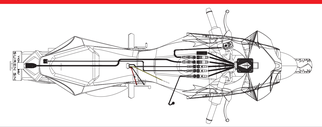
1. INNOVV K5, is the brand new 4K motorcycle dash cam that records the real 4K video (over 8 million pixels) at 30 FPS with its front camera and 1080P HD quality video at 30 FPS with its rear camera.
2. It features dual band Wi-Fi (2.4 GHz/ 5.8 GHz) with faster transmission and more stability.
3. The whole unit is certified with an IP67 rating, and it is absolutely alright to use on raining days.
4. The whole unit is constructed of durable and lightweight aerospace aluminum alloys, enabling a better anti-electromagnetic interference capability.
5. It uses the intelligent DC converter for power supply to better protect the device from battery draining problem.
6. It runs faster with A53 dual-core processor on DVR.
7. It offers the high level video quality and saves storage space by using the high efficiency video coding (H.265).
8. It is easy and flexible to install with its small size and smart design.

Brief Introduction



1. Mounting Screw Hole
2. USB Port
3. TF Card Port
4. Rear Camera Cable Connected to DVR (6-pin male)
5. Remote Control Cable Connected to DVR (6-pin female)
6. Wi-Fi Antenna
7. Front Camera
8. DVR
9. Power Cable Connected to DVR (3-pin male)
10. GPS Cable Connected to DVR (3-pin female)
11. Microphone Cable Connected to DVR (3-pin female)
12. Function Button
13. Recording Indicator
14. GPS Indicator
15. Remote Control
16. Wi-Fi Indicator
17. Remote Control Cable (6-pin male)
18. Rear Camera
19. Rear Camera Cable (6-pin female)
20. Fuse Holder
21. Positive Terminal of Power Supply
22. Negative Terminal of Power Supply
23. ACC Wire (Offers 12V switch power source after ignition)
24. Power Output Cable (3-pin female)
25. Power Indicator (Blue light on means there is 5.3V voltage)
26. DC Converter
27. GPS Cable (3-pin male)
28. GPS Module
29. Microphone Cable (3-pin male)
30. Microphone

Motorcycle Installation Demo



www.innovv.com

The Installation Guide

TF Card Installation

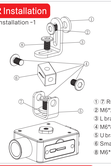
1: M2*6 mm screw *2 pieces
2: Waterproof cover
3: Waterproof silicone pad
4: TF card
5: TF card socket

Converter Installation

1: Red wire (connected to the positive of battery)
2: Black wire (connected to the negative of battery)
3: Yellow wire (connected to the 12V switched power source, like head light, tail light, horn and others which are associated to the ignition)
4: Power output cable (connected to the DVR)
5: Converter

DVR Installation

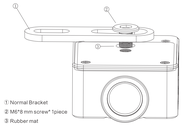
DVR Installation -1



1: 7 Rubber mat
2: M0*25 mm screw *1 piece
3: L bracket
4: M6*8 mm screw *3 pieces
5: U bracket
6: Small block
8: M6*12 mm screw *1 piece

DVR Installation

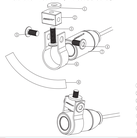
DVR Installation -2



1: Normal Bracket
2: M6*8 mm screw* 1piece
3: Rubber mat

Camera Installation

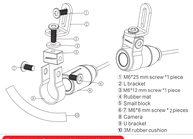
Installation Method-1 (Without L Bracket)



1: Rubber mat
2: Small block
3: M0*25 mm screw *1 piece
4: S M0*8 mm screw *2 pieces
5: U bracket
7: Camera
8: 3M rubber cushion

Camera Installation

Installation Method -2 (With L Bracket)



1: M0*25 mm screw *1 piece
2: L bracket
3: M6*12 mm screw *1 piece
4: Rubber mat
5: Small block
6: 7 M0*8 mm screw *2 pieces
7: Camera
9: U bracket
10: 3M rubber cushion

Remote Control Instruction

LED Indicators

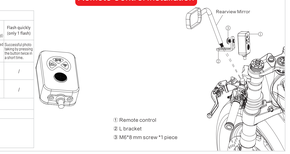
Status	Off	Solid On	Flash quickly (5 flashes per second)	Flash slowly (1 flash per second)	Flash quickly (only 1 flash)
Not working	Not working	Recording	No TF Card/ TF Card Error	Not recording	Accident video protected and locked, or video is recorded under specific conditions.
Wi-Fi off	Connected	R camera unconnected or disconnected	Connecting	/	/
GPS off	Connected	/	Connecting	/	/
Firmware Updating	Three indicators flash simultaneously				

Successful photo taking will be indicated by the button twice in a short time.

Instruction of the function button on remote control

1. Saving current video by pressing the button for once.
2. Photo taking by pressing the button twice in a short time.
3. Factory reset by pressing the button for 10 seconds.

Remote Control Installation



1: Remote control
2: L bracket
3: M0*8 mm screw *1 piece

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App Installation Guide

App Download

Android User: Search INNOVV in Google Play Store, then download and install it on your phone.
iPhone User: Search INNOVV in App Store, then download and install it on your phone.

With the DVR working normally and the Wi-Fi indicator lights on, please kindly turn on the Wi-Fi and then search the Wi-Fi network named INNOVV_K5_xxxx, and you could easily join it with the default password 12345678.

Some Android users may get the error message that "This WLAN network has no internet access. Connect anyway?" Please kindly click the "Connect" button to continue the network connection.

For Android Device

For Apple Device

App Interface

www.innovv.com

TF Card Instruction

INNOVV K5 innovates with the Sony 8-megapixel sensor on its front camera, producing high-quality 4K Ultra HD video. It is significantly larger than 1080P and as a result requires a lot more storage space. One minute of 4K video at 30 FPS will require a 375 MB. Therefore, you are suggested to use a U3 (UHS Speed Class 3), V30, V60, or V90 (Video Speed Class 30, 60, 90) rated TF card. Please kindly check the UHS Speed Class Mark and the Video Speed Class Mark as below.

Video Speed Class Mark: V30

UHS Speed Class Mark: U3

The INNOVV K5 could support up to **512GB** TF card capacity to enable longer recording times.

Wi-Fi Connection Instruction

The INNOVV K5 compatible with dual-band Wi-Fi, and the 5.8 Ghz Wi-Fi band is enabled by default. If you fail to search the K5's Wi-Fi, please kindly check whether your phone could support the 5.8 Ghz Wi-Fi or not first. You could kindly check those smartphones which could support 5.8 Ghz Wi-Fi and play 4K videos smoothly from https://www.innovv.com/smartphone-list. If not, please kindly download the latest firmware (With Default 2.4 Ghz Wi-Fi) from INNOVV website via https://www.innovv.com/downloads and follow the instruction to update to the latest firmware.

Time Calibration Instruction

When use the INNOVV K5 for the first time, please kindly connect your phone to the INNOVV K5 dash cam system via Wi-Fi network first and then go to Settings –Advanced Settings –> Time Calibration to calibrate the time via INNOVV App on your phone.

Microphone Instruction

An open hash cover around the microphone is used as the first line of defence against wind noise. You are suggested to put the microphone against the heading direction to further minimize the wind noise.

Parking Mode Instruction

If the Parking Mode has been enabled with INNOVV App on your phone, INNOVV K5 will provide around-the-clock protection when you are away and even the engine is not running. The K5's smart power supply module triggers parking mode automatically, and the INNOVV K5 will wake up and start recording when an impact or motion is detected by the built-in G-Sensor.

In order to make the Parking Mode function properly, please make sure that the INNOVV K5 should always be connected to a power source. The red wire and the black wire of the converter shall be connected to the motorcycle battery's positive terminal and negative terminal separately. The yellow cable shall be connected to the ACC wire. Lastly, the output voltage of the battery shall be at least 12V.

G-Sensor Instruction

There are 5 grades for the G-sensor's sensitivity and each grade has 2 options. Users could easily adjust that with INNOVV App according to different road conditions. The smaller the number is, and the less sensitive the G-sensor is.

Specification

Model	K5		
Structure Parameters		Parameters of Lens	
Installation	Side mounted/ Front mounted	Maximum Resolution	4K@30FPS
Size	52*48*25mm	F Lens: Viewing Angle	120°
R Lens	Dia:25*L50mm	F Lens: Structure	7G+1IR
Net Weight	480g (DVR:150g)	F Lens: Aperture	F1.8
Color	Black	R Lens: Maximum Resolution	1080P@30FPS
Waterproof Rating	IP67	R Lens: Viewing Angle	120°
		R Lens: Structure	6G+1IR
		R Lens: Aperture	F1.8
Parameter of DVR		Parameter of Converter	
Processor	A53 Dual-core	Voltage Input	9-18V
Rated	12V	Rated Input	9-18V
Sensor	G-Sensor	ACC Output	5.3V+0.2V
Storage	TF card	Voltage Output	5.3V+0.2V
Battery	Dual band Powerpoint 12.4 Ghz/ 5.8Ghz	Max Current	2A
Data Interface	Type-C	Working Temperature	-10℃~70℃
Video Format	MP4/ TS		
Wi-Fi	5HZ		
Working Temperature	-20℃~70℃		
Voltage Input	5.2V± 0.5V		
Video resolutions for K5's front and rear cameras			
Front Camera & Rear Camera	4K@30FPS+1080P@30FPS, 4K@25FPS+720P@30FPS; 2K@30FPS+1080P@30FPS, 2K@25FPS+720P@30FPS; 1080P@60FPS+1080P@30FPS,1080P@50FPS+720P@30FPS; 720P@60FPS+1080P@30FPS, 720P@50FPS+720P@30FPS;		

Basic Troubleshooting Guidelines

Number	Problems	Solutions
1	Recording Indicator flashes slowly and it is not working.	Please kindly check the TF card first or try to use another TF card.
2	The recording videos are blurry and the sharp details are lost.	Please kindly clean the camera lens with a lens tissue or cleaning cloth.
3	The DVR is not working after motorcycle ignition.	Please kindly check the yellow ACC wire and other cable connection first.
4	There is no videos by rear camera.	Please kindly check the rear camera connector and related cables.
5	There are many videos recorded in normal mode are saved in file named accident videos.	Please kindly decrease the sensitivity of the G-sensor in settings with INNOVV App.
6	There is no sound in all videos.	Please kindly make sure you have turned on the microphone. If that still fails, please kindly turn off the time-lapse video in settings with INNOVV App.

Important Notice

1. Don't bend the Wi-Fi antenna sharply or kink it.
2. The chipset in DVR may run hot due to heavy use. The whole DVR device is constructed of aerospace aluminum alloys and it spreads the heat well. Please be careful of the over-heating on DVR's case (about 122 °F) after heavy use.
3. Keep wires away from easily overheating areas, such as engine and exhaust during installation.

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FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

•Reorient or relocate the receiving antenna.

•Increase the separation between the equipment and receiver.

•Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

•Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation di stance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.