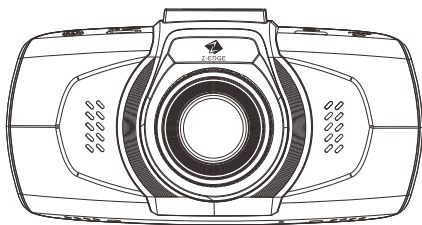




Z-EDGE



**Z4**

USER GUIDE



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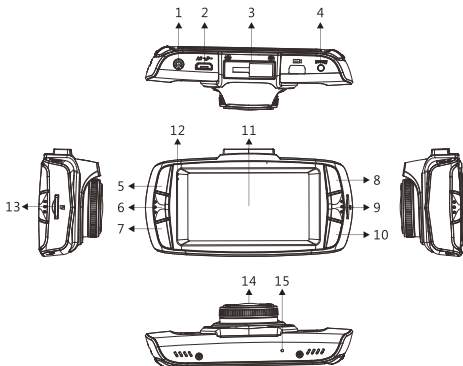
## INTRODUCTION

Thank you for purchasing the windshield/dashboard mountable Z4 Full HD Car DVR / Camcorder by Z-Edge ®. Please read this manual carefully before using this product. We hope you enjoy using this product.

## PRODUCT OVERVIEW

- Record stunning full high definition (FHD 1080P), high dynamic range (HDR) video with 150° field of view (FOV).
- Outstanding video quality – 1296P, 1080P and 720P - for recording even in low visibility driving conditions. Also features image capture with 16-megapixel resolution.
- Convenient recording and monitoring features including: automatic ignition detection, motion/crash detection recording, memory efficient seamless loop recording and parking mode for monitoring your vehicle via the highly sensitive built-in G-Sensor.
- Smart features including: automatic device shutdown after the engine is turned off, screen auto off, one-button audio recording and one-button emergency video protection.
- Seamless loop recording feature ensures efficient use of storage. Supports TF/MicroSD cards up to 64GB.

## GETTING STARTED



### Components

1	Power	9	Playback
2	Micro USB Port	10	OK
3	Camera Mount	11	Display Screen
4	Reset	12	LED Indicator Light
5	Up	13	TF/MicroSD Card Slot
6	Menu	14	Front-View Lens
7	Down	15	Microphone
8	Photo Capture		

## INSTALLATION

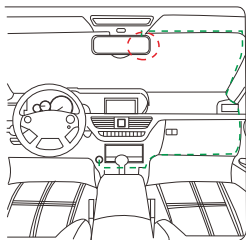
1. Insert a TF/MicroSD Card into the TF/MicroSD Card Slot (component 13) of the camera.

2. Find an appropriate position on the windshield to attach the camera. A recommended position to attach the camera is under the rear-view mirror. Please note:

- a. This position should be close to the cigarette lighter (power) in the car to ensure charging whilst recording.
  - b. This position should be clean so that the suction cup can attach to the surface firmly. If not, please clean the surface using water if necessary and wait until dry.
  - c. This position should neither distract the driver nor block the driver's view whilst driving.
3. Slide the suction cup into the latch groove of the camera mount (3) until securely attached.
  4. Make sure the locking lever of the suction cup is pointing in the direction of the camera - start position. Press and hold the suction cup against the windshield, pushing the locking lever in a clockwise direction until an audible click is heard. The suction cup should now be securely attached to the windshield. To reposition or remove the suction cup, pull the locking lever (counterclockwise) to release suction, and pull away from the windshield.
  5. Plug the car charger into the car cigarette lighter, and connect to the camera Micro USB port (2) via the Micro USB cable.

**NOTE:** For a more organized car environment, the micro USB cable can be routed as indicated by the green dashed line in the diagram. Plug the car charger into your cigarette lighter and connect the USB cable.

6. Start the engine of your car. The Z4 will automatically turn on and start recording.



7. The device will detect when the engine is switched off, and automatically power off shortly after the last video clip duration is complete and saved.

**WARNING:** Some car models supply power from the cigarette lighter even after the engine is turned off. We recommend you always unplug the USB charger manually before leaving your car to avoid any unwanted car battery drainage.

## NAVIGATION

### **"Power" Button (1)**

- **Manual On/Off:** Press and hold for 3 seconds to turn device on/off.
- **Screen On/Off:** Short press "Power" button to turn on/off the display screen.

### **"Up" Button (5)**

- **Navigate to Upper/Previous Item:** Press "Up" button to navigate to upper or previous item while browsing the system menu or playback files.
- **HDR:** Press "Up" button to turn on/off HDR feature.

### **"Menu" Button (6)**

- **Access System Settings Menu:** While in standby mode (device not recording or capturing images) pressing the "Menu" button will open the "System Settings" menu. Use the "Up" and "Down" buttons to navigate. Press "OK" button to confirm. Short press "Menu" button again to exit.
- **Access General Settings Menu:** In standby mode (device not recording or capturing images) pressing the "Menu" button twice will highlight the "General Settings" Menu. Use the "Up" and "Down" buttons to navigate. Press "OK" button to confirm. Short press "Menu" button again to exit.
- **Return:** In "System Settings" or "General Settings" short press the "Menu" button to return and exit menu.

### **"Down" Button (7)**

- **Navigate to Lower/Next Item:** Press "Down" button to navigate to lower or next item while browsing the system menu or playback files.
- **Enable/Disable Audio Recording:** Press "Down" button to enable/disable audio recording feature (see "Audio Recording" for more details).

### **"Photo Capture" Button (8)**

- **Take a Photo:** Short press the "Photo Capture" button whilst recording, to take a photo. A preview thumbnail will appear in the bottom right of the display to show the photo captured. A photo can be captured every 3 seconds.

**Please Note:** HDR1920x1080 is the only resolution that doesn't support simultaneous video recording and photo capture. To take a photo whilst recording in this resolution, firstly press the "OK" (10) button to stop the current recording and enter standby mode. Then press the "Photo Capture" button to take a photo.

### **"Playback" Button (9)**

- **Playback:** In standby mode (device not recording or capturing images), press "Playback" button to enter playback mode.
- **Emergency Video Protection:** In the event of an emergency, it is important to save and protect recorded video files so that they are not erased by the "Loop Recording" feature. With "G-Sensor Sensitivity" feature enabled, this device automatically protects video files when a significant vibration has been detected. However you can manually protect any video clip by pressing the "Playback" button during a video recording. This will protect the saved clip/file from being automatically deleted in the future. A yellow warning icon appears on screen to signify the file has been successfully protected.

### **"OK" Button (10)**

- **Select/Confirm:** While browsing press "OK" button to select or confirm highlighted item.
- **Start/Stop Video Recording:** In video recording mode press "OK" button to start/stop video recording.
- **Video Playback:** In playback mode press "OK" button to start/stop video playback.

### **Indicator Light Explanation (12)**

Light	Status
Blue	Standby mode
Flashing Blue	Recording video
Red	Charging



## OPERATION

### Powering ON/OFF

- **Automatic:** When device is connected via the USB car charger, it will automatically detect engine ignition and turn on.
- **Manual On/Off:** Press and hold "Power" (1) button for 3 seconds to turn device on/off.



**Warning:** The safe operating temperature for this device is between -10 to 60°C / 14 to 140°F, and safe storage temperature is -20 to 70°C / -4 to 158°F. Do not expose device to extreme hot or cold temperatures.

### Recorded Video Files

Videos are recorded and saved to the memory card as multiple video clips. Once the memory card is full, the "Loop Recording" feature automatically overwrites the earliest unprotected saved file. This prevents long duration video clips from being lost in a single overwrite. Video clip duration can be set to 1, 3 or 5 minutes inside the "System Settings" menu. Video clips can be played directly on the display screen, or copied/stored and played on a computer.

## VIDEO RECORDING MODE

### Motion Detection

With "Motion Detection" enabled, video recording is automatically paused when no movement is detected by the front view camera or G-Sensor. Video recording will automatically start again when movement is detected. This feature can be disabled or enabled inside the menu: **General Settings -> Motion Detection.**

### Loop Recording

Videos are recorded and saved to the memory card as multiple video clips. Once the memory card is full, the "Loop Recording" feature automatically overwrites the earliest unprotected saved file. This prevents long duration video clips from being lost in a single overwrite. Video clip duration can be set to 1, 3 or 5 minutes inside the menu: **System Settings -> Loop Recording.**

## **Crash Detection**

In the event of a collision the highly sensitive built-in G-Sensor, will automatically turn video recording on and protect the saved file. The sensitivity of the G-Sensor can be set to Off, High, Normal or Low inside the menu: **General Settings -> G-sensor Sensitivity**.

## **Parking Mode**

When "Parking Mode" is enabled, the device continues to monitor the vehicle while it is turned off and parked. If any vibration is detected by the device, it will automatically turn on and begin recording. Approximately 30 seconds after the vibration has finished, the device will automatically turn off and return to monitoring mode. In "Parking Mode" the device is powered by the internal rechargeable battery, and the LCD display screen is automatically set to power save to conserve battery power. This feature can be disabled or enabled inside the menu: **General Settings -> Parking Mode**.

## **Emergency Video Protection**

In addition to automatic video file protection via the "G-Sensor Sensitivity" feature, any video can be protected manually by pressing the "Playback" button during a video recording. A warning icon appears on screen to signify the file has been successfully protected.

## **Audio Recording**

With "Audio Recording" enabled the device will record audio for the current video clip via the integrated microphone. This feature can be enabled/disabled inside the menu: **System Settings -> Audio Recording**.

## **Screen Auto Off**

Automatically turn off the LCD display screen after 1 or 3 minutes. This feature is useful if the display screen proves a driving distraction for the driver. To leave display screen on continuously whilst recording, select "Off". Feature can be set to Off or On inside the menu: **System Settings > Screen Auto Off**. Turn on the display screen again by pressing any button.

## PHOTO CAPTURE MODE

- **Photo Capture:** Short press the "Photo Capture" button whilst recording. Alternatively whilst recording press "OK" button to enter standby mode and then press "Photo Capture" button to take a photo.

## PLAYBACK MODE

In standby mode press the "Playback" button to switch to playback mode. Browse video and image files by pressing the "Up" and "Down" buttons. Play/Pause highlighted video files by pressing "OK" button.

## STANDBY MODE

This is the default mode the device enters when not recording or capturing images (inactive). In standby mode you can adjust settings inside the system menu. To enter "Standby Mode" while recording a video, press the "OK" button to stop the current video recording.

## DRIVING SHORTCUTS

- In addition to automatic video file protection, any video can be protected manually by pressing the "Playback" button during a video recording. A warning icon appears on screen to signify the file has been successfully protected.
- Press "Up" to turn on/off HDR feature.
- Press "Down" button to enable/disable audio recording.

## PERSONALIZED SETTINGS

Mode	Main Menu	Sub-Menu or Prompt	Description
System Settings	Video Resolution	2560x1080 30P 21:9 2304x1296 30P 21:9 1920x1080 45P 21:9 HDR 1920x1080 30P 21:9 1920x1080 30P 21:9 1280x720 60P 21:9 1280x720 30P 21:9	Highest to lowest resolution. Select setting which gives balance between video quality and video file size according to your TF card storage.
	Video Quality	Super Fine Fine Normal	Set the video recording quality.
	Loop Recording	1 min 3 mins 5 mins	Set the duration of each video clip recorded to the memory card. Refer to "Loop Recording" for more details.
	Audio Recording	Off On	Turn on/off audio recording during a video recording.
	Date Stamp	Date Time	Enable/Disable date stamp.
	White Balance	Auto Incandescent Sunny Cloudy Fluorescent	Set the white balance level.
	Language	English Simplified Chinese Traditional Chinese Russian	Preset the language of the user interface.
	Anti-Flicker Settings	Auto 60Hz 50Hz	Set the display frequency of the video recording: 50Hz (PAL) and 60Hz (NTSC).
	Date & Time	YYYY/MM/DD HH:MM	Set the date and time.

Mode	Main Menu	Sub-Menu or Prompt	Description
System Settings	Volume	High Normal Low	Set the Volume.
	Key Tone	Off On	Enable/Disable the sound effect when pressing the buttons.
	Device Auto Off	Off 1 min 3 mins 5 mins	Device will automatically shut down when the power is cut off.
	Screen Auto Off	Off 1 min 3 mins	LCD display screen will automatically turn off.
	Card Info		Show the Memory card capacity information.
	Delete Files	Event Files Normal Files	Delete the selected file.
	Format Memory Card	No Yes	Format the TF/MicroSD card.
	Restore Default Settings	No Yes	Restore the factory default settings.
	Version		Display the version number of the current firmware.
General Settings	Motion Detection	Off On	Enable/Disable motion detection. Refer to "Motion Detection" for more details.
	Parking Mode	Off On	Enable/Disable parking mode. Refer to "Parking Mode" for more details.
	G-Sensor Sensitivity	Off High Normal Low	Set the G-Sensor Sensitivity. Refer to "Crash Detection" for more details.

## COMMON FUNCTIONS

### Connecting to a Computer

Connect the device to a computer using a micro USB cable. Power on the device.

- **Data transfer mode:** The contents of the memory card will appear as a regular disk drive on your computer, as if it was a USB flash drive. Browse as normal to view, play, copy and delete saved files. Compatible with Windows (XP and later) and MAC (OS X and later).

### File Management

Recorded video and photo files are classified and grouped into different folders:

- Unprotected video files and photos are stored in "NORMAL" folder.
- Protected video files are stored in "EVENT" folder.

Recorded video and photo files are saved in the following naming rules:

- Date + time. (e.g.: 2017-01-14-21-05-57.MOV)

### Choosing a TF/MicroSD Card

The higher the video resolution, the better the image quality. However a higher video resolution also requires more storage space. This means with the same capacity TF/MicroSD card, if you choose to record a higher video resolution, you will need to save shorter video clips.

A TF/MicroSD card with larger storage space can be used to store longer individual video clips or a longer total duration of saved files. This device supports TF/MicroSD cards with a storage space of up to 64GB.

#### **Note:**

- Use TF/MicroSD cards of class 10 and above for optimal performance.
- Format TF/MicroSD card the first time you use it. To format a TF/MicroSD card, simply enter it into the Z4 card slot and navigate inside the menu: **System Settings -> Format Memory Card**. Please ensure you save any important files stored on your memory card before formatting it.
- This device supports TF/MicroSD cards with a storage space of up to 64GB.

The supported capacities of TF/MicroSD cards and their corresponding 1080P video recording times are listed in the table below:

Storage Capacity	Video Recording Time (Front-View Camera 1920x1080)
64GB	400 mins
32GB	200 mins
16GB	100 mins
For reference only	

### **Language Setting**

1. To change languages, in standby mode press the "Menu" button to enter "System Settings" menu, and then select the "Language" sub-menu.
2. Select a language by highlighting it using the "Up" and "Down" buttons, and pressing "OK" button to confirm.
3. Exit the menu by pressing the "Menu" button.

### **Date/Time Setting**

1. To change the date or time, in standby mode press the "Menu" button to enter "System Settings" menu.
2. Use the "Up" and "Down" buttons to navigate to the "Date & Time" sub-menu, and press the "OK" button.
3. Use the "Up" and "Down" buttons to change the data value of current entry.
4. To save an entry and go to the next entry, press the "OK" button (YYYY-MM-DD, HH:MM).
5. To change a wrong entry, scroll through the entry fields by pressing the "OK" button until the incorrect entry field is highlighted. Change and save as above.
6. Save and exit the menu by pressing the "Menu" button.

### **Reset Device**

In the event of a software crash, locate the small reset pinhole (4) on the device. Insert a straightened paper clip through the pinhole and depress the switch inside. The device will be reset.

**Note:** Press reset button only when the device crashes. Under normal circumstances, please do not press reset button.

## TECHNICAL SPECIFICATIONS

Product Dimensions	4.0"x 2.0"x 1.2" 101.5 x 53 x 29mm (LxWxH)
Weight	65g
Display Screen	2.7" HD screen
View Angle	150-degrees
Video Resolution	2560x1080 30P 21:9 2304x1296 30P 16:9 1920x1080 45P 16:9 HDR 1920x1080 30P 16:9 1920x1080 30P 16:9 1280x720 60P 16:9 1280x720 30P 16:9
Video Format	MOV
Still Picture/Photo Resolution (max)	5312x2988 (16M)
Still Picture/Photo Format	JPEG
Audio Format	AAC
G-Sensor	Built-in
External Storage Card Type	TF/MicroSD
External Storage Card Capacity Support	Up to 64GB
Microphone/Loudspeaker	Built-in
USB Port	USB 2.0
External Power Supply	DC 5V 2.4A
Battery	180mAH internal Li-ion battery
Operating Temperature	-10 to 60°C / 14 to 140°F
Storage Temperature	-20 to 70°C / -4 to 158°F



Computer System Requirement	PC: Windows XP and above MAC: OS X and above
Language Selection	English Simplified Chinese Traditional Chinese Russian
Accessories	Micro USB Cable x2 Car Charger x1 Suction Cup x1 Cable Clamps x6 16GB TF/MicroSD Card x1 Manual x1

**Note:**

The design and specifications of this product could be amended at any time without prior notifications. There might be some differences between the product and the description in this manual.







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