

mini**0806**



## User's Guide For MINI0806 DASH CAMERA

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Please read this manual carefully before using.  
This manual should be kept for future reference.

**WARNING:** The dash camera should be set up before driving.  
Concentration should always be maintained on the task of driving, let the dash camera record accidents caused by others not by yourself.



## PRECAUTIONS

- Do not expose the dash camera to dusty, dirty or sandy conditions, if these gets into the camera or on the lens it can damage the components.
- Do not expose the dash camera to high temperatures.  
The normal operating temperature of the dash camera is 0 C to 40 C (32F to 104F)  
High temperatures can shorten the life span of electronic device, and extremely high temperature will shorten the battery and/or degrade the plastic components. Note extreme temperatures can be achieved in parked cars in direct sunlight.  
Expose the dash camera to strong sunlight when using Motion Detection mode may cause the dash camera to malfunction or become damaged as the temperature can be too high in your car in summer.
- Do not expose the dash camera to a cold environment.  
Extremely low temperatures can also damage the electronic components; if there is water moisture in cold environment, freezing water can cause damage, as can thawing.
- Do not try to dismantle or open the casing. Doing so may result in electrical shock and will most likely result in damaging the dash camera.
- Do not mistreat the dash camera, dropping, sudden impact, and vibration can cause damage.
- Do not clean the dash camera with chemicals, cleaning solution or a high concentration detergent. Only a slightly damp cloth should be used.

## UPGRADING

Please download the latest firmware from:

[www.mini0806.com](http://www.mini0806.com)

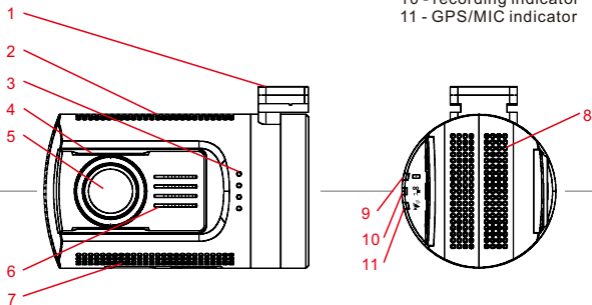
to upgrade the camera for improved stability and extra functions.

Extract the FIRMWARE.BIN file to the root folder of your microSD card; insert the card into your mini0806 camera and power on. The camera will auto examine the FIRMWARE.BIN file and popup a confirmation dialogue, press the UP or DOWN button to choose YES and press OK to upgrade.  
The camera will shut down automatically after upgrading is completed.  
Enjoy.

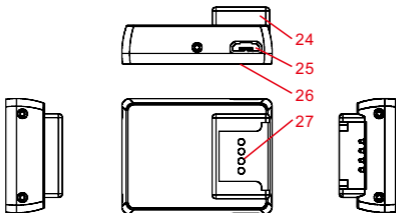
# APPEARANCE

- 1 - mount
- 2 - top cooling holes
- 3 - speaker holes
- 4 - CPL mounting bar
- 5 - lens
- 6 - front cooling holes
- 7 - bottom cooling holes
- 8 - side cooling holes
- 9 - power indicator
- 10 - recording indicator
- 11 - GPS/MIC indicator

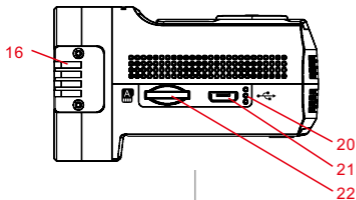
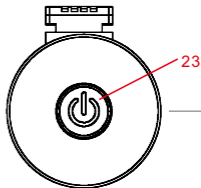
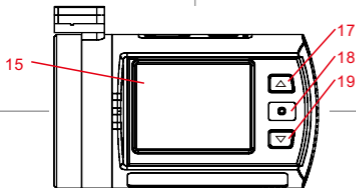
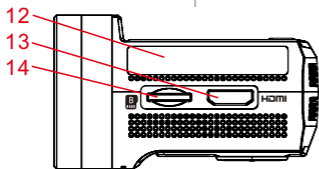
mini0806 camera



camera mounting bracket  
(GPS logger inside)



## APPEARANCE



- 12 - sticker
- 13 - HDMI output
- 14 - card B slot
- 15 - TFT screen
- 16 - mounting contacts
- 17 - UP button
- 18 - OK button
- 19 - DOWN button
- 20 - MIC holes
- 21 - microUSB port
- 22 - card A slot
- 23 - POWER button
- 24 - mount
- 25 - microUSB port
- 26 - VHB pad
- 27 - mounting contacts

# OPERATION

Read this chapter to know how to operate the camera.

## TURN ON /OFF YOUR CAMERA

You may turn on the camera by pressing the power button.

You may turn off the camera by holding the power button for 2 seconds.

The camera is also pre-configured to auto turn on and start recording once it receives power, e.g. when the car engine is started.

The camera is also pre-configured to auto stop recording and turn off once it loses power, e.g. when the car engine is stopped.

The camera is also pre-configured to auto turn off if it is in standby for a long time without any button pressed.

The camera is also pre-configured to auto stop recording and turn off when the internal battery runs out if there is no external power supply.

## STORAGE CARD PREPARATION

The camera supports dual microSD cards, both 128GB MAX. It is recommended to use Class 6 or Class 10 high speed microSD card to avoid storage problems.

The videos can be stored in card A or card B depending on the setting.

Insert a microSD card in the card slot, the camera will auto start recording if the power is on.

## RECORDING A VIDEO

When the camera is standby, press the OK button to start video recording.

When the camera is recording, press the OK button to stop and enter standby.

The camera is also pre-configured to auto start recording once it receives power, i.e. when the car engine is started.

The camera is also pre-configured to auto stop recording and turn off once it loses power, i.e. when the car engine is stopped.

## TAKING A PHOTO

When the camera is in standby or recording, hold the OK button for 2 seconds to take a photo.

## PLAYBACK ON CAMERA

When the camera is in standby, hold the DOWN button to enter playback on the camera.

When the camera is in playback, hold the DOWN button to standby.

When the camera is in playback, press UP and DOWN buttons to highlight the video or photo you want to review, then press OK to view.

When the camera is in playback, press UP and DOWN buttons to highlight the video or photo you want to edit, then hold UP button to active the sub-menu: Delete file, Protect file, Auto play, Copy to another card, Switch card. Press UP and Down buttons to choose and then OK button to perform the action.

## **PLAYBACK ON TV**

When the camera is connected to a TV with an HDMI cable, the camera screen will be turn off and transfer the display to the TV. The operation will be the same as when using playback on the camera.

If you want to connect a TV for playback via an AV connection, you need to use the customized AV-out cable (optional accessory). Plug it into the microUSB port on the camera body.

## **PLAYBACK ON COMPUTER**

When you wish to review the videos or photos on computer, a microSD card reader can be used. GPS PLAYER program is placed in the PLAYER folder when a microSD card is formatted by the camera, which can playback the video recording with GPS traces. You can also use a compatible media player to playback the MOV video files directly, without the GPS trace.

If you don't have a microSD card reader on hand, you can connect the camera to your computer with the supplied USB cable. The camera will be recognized as a mass storage device. You can then use the camera as microSD card readers for two separate microSD cards for playback.

## **CONNECT CAR DVD/NAVIGATION**

When need to live view or playback on car DVD/navigation system, you need to use the customized AV-out cable (optional accessory). This plug into the microUSB port on camera body.

## **RECORDING MUTE VIDEO**

When the camera is in either standby or recording, you can press the UP button to mute the microphone inside camera any time. Press the UP button again to cancel mute status.

## **SOS MANUAL PROTECT VIDEO**

The camera support automatic loop recording which means the oldest video will be over-written by new video when the card is almost full unless the video is protected (Read-only file attribute).

The camera can auto protect videos if the G-sensor data exceeds the configured threshold.

You can also manually protect the video by pressing the DOWN button. Hold the DOWN button to cancel protected status.

## **SETTING UP THE CAMERA**

If you are not satisfied with the default setting, you can customize your own. With the camera is in standby, hold the UP button to enter the setting menu. Use UP and DOWN buttons to scroll to the subjects you want to configure, press OK to select; then press UP and DOWN buttons to choose the option you want, press OK to confirm and exit.

Hold UP button at any time to cancel.

Please review the SETTING section to learn about setting subjects.

# SETTING

The 0806 camera is pre-configured to provide you with a simple plug and play experience - the default settings are the most popular options.

Please read this chapter to help you to customize the camera setting, when you require a slightly different experience.

The default setting are listed in **BOLD**.

## VIDEO RESOLUTION

Here you can choose the video resolution you want to use; higher resolution videos will take more storage space.

options: **2560x1080 30fps 21:9** (cinema mode)

2304x1296 30fps 16:9

1920x1080 45fps 16:9

1920x1080 30fps 16:9

HDR 1920x1080 30fps 16:9

1280x720 60fps 16:9

1280x720 30fps 16:9

## VIDEO QUALITY

Here you can adjust the video quality; the quality will affect video grain, sharpness, contrast and so on. Better quality videos will result in higher bit rate and take more storage space.

options: **Super Fine**

Fine

Normal

## PHOTO RESOLUTION

Here you can choose the photo resolution you want to use; higher resolution photos will take more storage space.

options: **4M (2688x1512 16:9)**

9M (4000x2250 16:9)

13M (4800x2700 16:9)

## PHOTO QUALITY

Here you can adjust the photo quality; the quality will affect photo grain, sharpness, contrast and so on. Better quality photos will take more storage space.

options: **Super Fine**

Fine

Normal

## AUTO EXPOSURE METERING

Here you can set the measuring area for Auto Exposure; this setting will affect the video brightness and quality. **CENTER** is recommended if there is no special requirement.

options: **CENTER**

AVERAGE

SPOT



**EXPOSURE COMPENSATION**

Here you can manually adjust the Exposure Values to improve the image brightness.

options: -2.0  
-1.7  
-1.3  
-1.0  
-0.7  
-0.3  
**0**  
+0.3  
+0.7  
+1.0  
+1.3  
+1.7  
+2.0

**WHITE BALANCE**

Here you can set the image white balance mode to improve colour balance in videos/images in different weather and lighting conditions. Auto is recommend to fit most conditions.

options: **AUTO**  
SUNNY  
CLOUDY  
TUNGSTEN  
FLUORESCENT

**FLICKER**

Here you can set the sensor flicker frequency to fit your AC power frequency and reduce the effect of flickering lamps. Please leave it AUTO if you don't know which frequency is in use in your country.

options: **AUTO**  
60HZ  
50HZ

**ROTATE IMAGE 180°**

When you want to mount the camera up-side-down, the setting will rotate the recorded image 180° so that appears the correct way up on your TV/computer. The button functions will be changed at the same time so that the UP button is still at the top when the camera is rotated.

options: **OFF**  
ON

**LOOP RECORDING**

The 0806 camera supports automatic loop recording when the card is full. Here you can set the segment length according your requirement. If you need a continuous video without any segmentation, please set it to OFF but be

# SETTING

aware that the maximum video file size is 4GB.

options: 1 MIN  
**3 MIN**  
5 MIN  
OFF

## **LDWS DETECTION**

The camera will warn when it detects a lane departure, including normal planned lane departures. Here you can define the speed threshold above which the LDWS will become active.

If you wish to use LDWS then it is recommended to use the HIGH SPEED setting so that it only operates on the highway, otherwise you may become desensitised to the warnings.

options: **OFF**  
LOW SPEED  
MIDDLE SPEED  
HIGH SPEED

## **LDWS CALIBRATION**

This adjusts the LDWS reference lines to improve the LDWS operation. Please use the UP and DOWN buttons to move the top line to the height of the horizon and the bottom line to the height of the front of your car. Use the OK button to confirm the adjustment of each line.

## **MOTION DETECTION**

Motion detection is used to reduce the amount of storage space used. When there isn't obvious motion detected the camera will switch standby. Once motion over the threshold value is detected, the camera will start recording and continue until 15 seconds after the motion stops. Here you can set the detection sensitivity.

options: **OFF**  
LOW  
MIDDLE  
HIGH

## **PARKING GUARD**

When you have turned off your engine, the 0806 camera will detect the battery voltage change and launch Parking Guard mode. The video recording will then be low frame rate to save storage space. Once any impact over the threshold value is detected, the camera will change to normal recording mode to save a 30 second video clip. This file will be protected from over-write by the loop recording function.

(You need the Parking Guard mounting bracket to support the Parking Guard function, which is an optional accessory.) Here you can define the impact detection sensitivity.

options: **OFF**  
LOW  
MIDDLE  
HIGH

### **GREEN INDICATOR**

Here you can define the indicating function of the Green Indicator.

options: **GPS STATUS**  
MIC STATUS  
OFF

### **G-SENSOR SENSITIVITY**

The G-sensor is used to detect the 3-axis impacting forces. If any impact over the threshold value is detected, the current recording file will be locked/protected to avoid being over-written. Here you can define the sensitivity threshold value.

options: **OFF**  
2G  
2.5G  
**3G**  
3.5G  
4G  
4.5G

### **POWER OFF DELAY**

If there are no button actions when the camera is on standby, the camera will auto power off to save power (Unless the camera is on Motion Detection mode or Parking Guard mode). Here you can define the delay time.

options: **1 MIN**  
3 MIN  
5 MIN  
OFF

### **SCREEN OFF DELAY**

If there are no button actions when the camera is on standby or recording, the camera will auto turn off the screen to save power. (You can press the POWER button to turn on/off screen at any time.) Here you can define the delay time.

options: **15 SEC**  
30 SEC  
1 MIN  
3 MIN  
5 MIN  
OFF

### **GPS STAMPING**

The 0806 camera can record your driving track and stamp the GPS data on video. Here you can define the GPS data stamping method.

# SETTING

options: **OFF**  
LOG ONLY  
ON

## **SPEED STAMPING**

The 0806 camera can record your driving speed and stamp the speed data on video. Here you can define the speed data display method

options: **OFF**  
KM/H  
MPH

## **DRIVER NUMBER STAMPING**

The 0806 camera can stamp your driver number or your customized information on video. Please define the driver number in next title. Here is the switch.

options: **OFF**  
ON

## **DRIVER NUMBER**

Here you can define the driver number or your customized information to stamp on the video (9 characters or numbers).

000000000

## **DATE STAMPING**

Here you can define the date stamping format on video.

options: **OFF**  
YYMMDD  
MMDDYY  
DDMMYY

## **TIME STAMPING**

Here you can define the time stamping format on video.

options: **OFF**  
12 HOURS  
24 HOURS

## **DATE AND TIME**

Here you can set the system date and time manually. The date/time information will be automatically updated if GPS satellites are connected.

00 2014 / 11 / 11 12:12  
*time zone*      *date*      *time*

The time zone, corrected for daylight saving time, will need to be set before the GPS signal can correctly update the time.

## **LANGUAGE**

Here you can set the language you prefer.

options: **ENGLISH**  
РУССКИЙ

**CHOOSE CARD**

Here you can choose the card(s) on which you want to store the videos and photos. If set to AUTO, the recording will be alternated between card A and card B once it is full.

options: **AUTO**  
CARD A ONLY  
CARD B ONLY

**FORMAT CARD**

Here you can format the currently selected card. Please check the card icon shown on screen carefully before formatting. All files will be lost once you start the formatting process.

(If you are using microSD cards bigger than 32GB, please format the cards on a computer to be FAT32 format.)

options: **NO**  
YES

**RESTORE DEFAULTS**

Here you can restore all the settings to the factory default settings.

options: **NO**  
YES

**FIRMWARE VERSION**

Here you can find the current version of the firmware in your camera. You may need this information when you are trying to upgrade the camera to a later firmware. The firmware is sorted by releasing date; the suffix number means the sequence on that date.

option: FW 20141224 V1.0

# UI & PLAYER



WHITE BALANCE

0.0EV

EXPOSURE  
COMPENSATION

LOOP RECORDING

DUAL CARDS

FILE LOCKED

MIC ON

VIDEO RECORDING MODE

BATTERY POWER

GPS INVALID

MOTION DETECTION

PARKING GUARD

CARD B WORKING

RECORDING



SYSTEM TIME

REMAINING TIME

RECORDING TIME

VIDEO AREA



MAP AREA

PROGRESS  
BAR

LONGITUDE  
& LATITUDE

CONTROL  
BAR

G-SENSOR  
DATA

FILE LIST

SPEED

## mini0806 camera specification

4MP CMOS image sensor  
135 degree angle view field, F2.0 aperture  
1.5inch TFT LCD screen  
cinema mode recording 2560\*1080px 21:9 30fps  
super HD recording 2304\*1296px 16:9 30fps  
full HD recording 1920\*1080px 16:9 45fps  
HD recording 1280\*720px 16:9 60fps  
H.264 coding MOV file recording  
supports dual microSD card 128GB\*2  
supports High Dynamic Range boost  
supports GPS route logging  
supports G-sensor file protection and SOS manual file protection  
supports parking guard (with Parking Guard mounting bracket)  
supports movement detection  
supports Lane Departure Warning System  
supports Forward Collision Warning System  
supports up-side-down mounting  
supports HDMI output to TV and optional AV-out  
supports Circular Polarizing Filters  
supports 160degree rotating and 6 degree offset  
built in 3.7V 200mAh Li-Polymer Battery

## mini0806 camera box content

dash camera unit  
GPS logging mounting bracket  
2° and 4° angle mounting wedge  
wedge mounting screws M1.4\*5mm  
power lead for cigar lighter socket  
USB Cable  
VHB sticker pads  
lens cleaner  
manual  
optional: 24mm CPL filter, no GPS mounting bracket, Parking Guard mounting bracket and power lead, hardwire kit, external GPS antenna, HDMI cable, AV-out cable, microSD-USB card reader, microSD-SD adapter, microSD-WiFiSD adapter, microSD-microUSB OTG card reader, microSD card(s)

## PC System Requirements

Windows XP or later operating system, MAC 10.1  
Intel Pentium 4 2.8GHz CPU or above (recommended 3GHz)  
at least 2GB RAM or above (recommended 4GB)  
internet connection (for GPS log playback)

# MOUNTING

The 0806 camera is designed for easy & quick mounting to your windshield with the VHB sticker pad.

1st, mount the camera to the mounting bracket with power cable plugged into either the mount or camera body;

2nd, simulate the unit on your windshield with the camera powered on, rotate the camera vertically to find the best mounting location;

3rd, you may need to fit the wedge(s) if you want to mount at an offset location from the center of the windshield; just screw the wedge(s) to the mount bracket, or use the VHB pads in the accessory bag. (screws M1.4\*5mm are also in the accessory bag)

4th, stick the VHB sticker pad to the mount bracket or wedge, and attach to your windshield, hold the mount for a few seconds to ensure good adhesion;

5th, power on the camera and check the camera display again.

When you want to demount the camera, just slide the camera out from the mounting bracket; no need to take the mounting bracket down.

When you want to remove the mounting bracket from your windshield, please use a thin cord with a sawing motion to cut between the VHB sticker and your windshield and pull the cord to break the mount off from your windshield. Then remove the sticker residual with WD-40 spray.

Please don't break off the mount bracket from windshield with a rigid crowbar, which may damage the mount bracket or your windshield.

The recommended mounting location for mini0806 camera is at the center of the windshield, just behind the rear view mirror. That is the most invisible location to hide the camera, and will never interrupt you when driving.

If you have to place the camera offset from center, you may need to use the wedges to adjust the camera view direction. There are two wedges attached in accessories bag, one is 2° angle and another is 4° angle. With these you can mount the mini0806 camera at a 2°, 4°, or with both together 6° offset location.

mini 0806 mount  
with 2° wedge



mini 0806 mount  
with 4° wedge



mini 0806 mount  
with 2° + 4° wedges





## POWER SOURCE



The mini 0806 camera can be powered by power lead for cigar lighter socket, or hardwire kit.

Power lead for cigar lighter socket is a easy&fast connecting method for cameras, the only thing you need to do is plug the power lead into the cigar light socket in your car. The camera will be powered once the engine is start. The disadvantage of power lead for cigar lighter socket is it will engage your cigar lighter socket, and maybe alignment difficulty for the long cable.

Hardwire kit is used to solve the problems above. The 12V leads are connected to the car fuse or car battery and the 5V lead is connected to your camera. The output power can be constant to support the Motion Detection function of camera. There is Low Voltage Protection in hardwire kit to protect the car battery from drain. You may need some professional skill to install the hardwire kit.

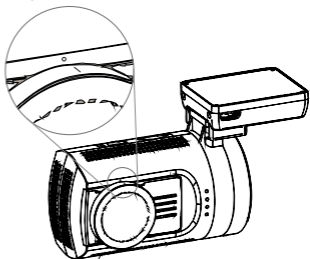


# ACCESSORIES

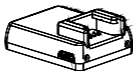
All the accessories listed in this page are optional.

## CPL filter

Reduce the reflection from shiny surface like vegetation, sweaty skin, water surface, glass, road, and let the natural color come through at the same time. Some of the light coming from the sky is also polarized to give a more dramatic sky and high contrast clouds, rendering outdoor scenes crisper with deeper color tones. Align the white line on CPL with the dot on camera will bring the best reflection reducing effect.

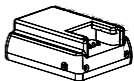


## GPS / no GPS mounting bracket



Spare mount for another mounting location or another car

## Parking Guard mounting bracket



Support Parking Guard function with a continuous power supply

## external GPS antenna



Work with NO GPS mounting bracket

## HDMI cable



## microSD-WiFiSD adapter

Using a WiFi SD card inside a digital camera, one can wirelessly and automatically upload digital photos to a local computer or a mobile device



## AV-out cable



# TROUBLESHOOTING

## Can't record a video or take picture

Please check that there is enough storage space on the microSD card, or if you have Loop Recording on that the files are not all protected (read only attribute).

## Camera stops recording occasionally

Because the data stream of high-definition video is huge, please use a high-speed Class 6 or Class 10 microSD card that compatible with SDHC.

## "File Error" prompt while playback the video or image

Corrupt data storage results the file error, please use the "FORMAT CARD" Menu to format the microSD card. (please format the card on a computer to be FAT32 format if it is bigger than 32GB.)

## No image display on TV/DVD screen

Please confirm the AV, HDMI cable is connected correctly, and the TV/DVD is set to the correct AV, HDMI mode.

## Image is blurred

Maybe the lens or windshield is not clean, please check if there is dust, fingerprint, or something else on the lens. Use lens cleaner to clean the lens before using. Please remember to remove the lens protecting film before first use.

## Power indicator doesn't work

If the power supply is less than 600mA current, the camera can't be charged and the power indicator will not work.

## Image has horizontal stripes interference

This is due to the wrong setting of "Flicker". Please adjust it depending the local power supply frequency, reset the Flicker: 50 Hz/60 Hz.

## Camera doesn't auto start recording when the car engine is started

Please make sure the loop recording is 1/3/5 minutes, not OFF, it won't auto start recording when loop recording is OFF; Additionally, please check if the microSD card is full; if yes then please try to format the microSD card.

## The camera continues automatic recording and won't stop.

Maybe the camera is working on Motion Detect mode; you can check whether there is an icon on the screen. When the Motion Detection is ON, it will auto start recording when a moving object appears within the range of camera. When the motion ceases, the recording will stop automatically until a moving object appears again. It is not easy to turn Motion Detection function off with the camera in hands.

## Auto Power Off setting doesn't work

Please ensure that motion detection is turned off. If the motion detection is on, the camera will always be in standby mode (it will start recording when it sees a moving object), the camera will not automatically shut down until the power goes off.

## What to do if the camera has locked up and will not respond to button presses?

Remove the camera from the mount or turn off the power, then hold the power button for 20 seconds, the camera will auto reset.

## More questions?

Please get help from [www.mini0806.com](http://www.mini0806.com)!



## MINI0806 DASH CAMERA

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MORE THAN A DASH CAMERA

mini**0806**

[www.mini0806.com](http://www.mini0806.com)