



User's Guide For nanoQ DASH CAMERA

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 -10 C to 60 C (14F to 140F) and storage temperature is -20C to 80C (-4F to 176F). High temperatures can shorten the life span of electronic device, and extremely high temperature will shorten the battery life 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:

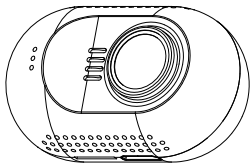
www.nanodashcam.com

to upgrade the camera for improved stability and extra functions.

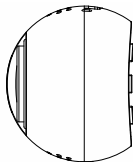
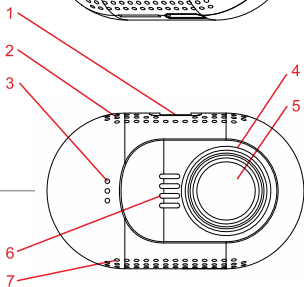
Extract the FIRMWARE.BIN file to the root folder of your microSD card; insert the card into your nanoQ camera and power on. The camera will auto examine the FIRMWARE.BIN file and start upgrading with red LED blinking, the camera will boot after quick blinking which means upgrade success. Please remove the FIRMWARE.BIN from the microSD card after upgrade finished. Enjoy~

APPEARANCE

nanoQ camera



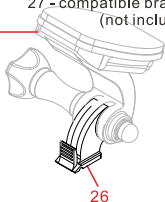
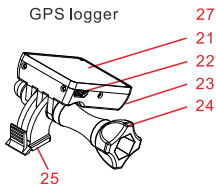
- 1 - mount
- 2 - top cooling holes
- 3 - speaker holes
- 4 - CPL mounting ring
- 5 - lens
- 6 - front cooling holes
- 7 - bottom cooling holes



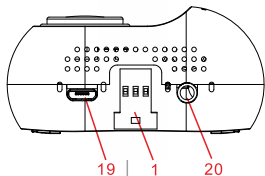
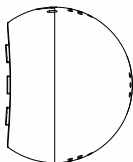
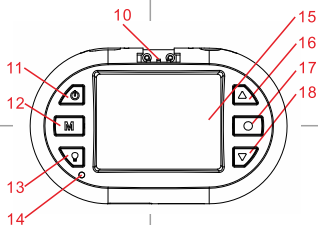
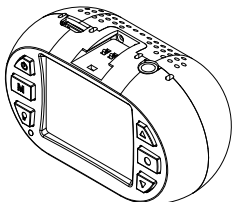
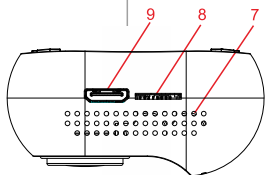
camera mounting bracket

- 21 - 3M pad
 - 22 - microUSB port
 - 23 - GPS antenna
 - 24 - tightening screw
 - 25 - GPS mount
 - 26 - compatible mount
 - 27 - compatible bracket
- (not included)

GPS logger



APPEARANCE



- 8 - microSD port
- 9 - mini HDMI port
- 10 - GPS contacts
- 11 - POWER button
- 12 - MODE button
- 13 - INDICATOR button
- 14 - LED indicator
- 15 - 1.5" TFT screen
- 16 - UP button
- 17 - OK button
- 18 - DOWN button
- 19 - microUSB port
- 20 - AV-out port

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 microSD card up to 64GB MAX. It is recommended to use Class 6 or Class 10 high speed microSD card to avoid storage problems.

Please format the microSD card to FAT32 format for recording. It is recommended to format the microSD card every two weeks to avoid file segments which may cause recording problem.

Please backup the important files before formatting.

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 loose 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 mode 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, or Auto play. 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 turned off and transfer the display to the TV. The operation will be the same as when using playback on the camera.

You can connect a TV for playback via AV-out also, you need to use a AV-out cable (optional accessory). Plug it into the AV-out 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 link is placed in the PLAYER folder when a microSD card is formatted by the camera, the player can playback the recorded video 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 instead of a microSD card reader.

CONNECT CAR DVD/NAVIGATION

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

RECORDING -- MUTE AUDIO

When the camera is in recording mode, you can hold the UP button to mute the microphone inside camera any time. Hold 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 hold the DOWN button. Hold the DOWN button again 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 choose the setting 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 nanoQ 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.

WiFi HOST

Here you can active / disable the WiFi host function to allow a mobile device to connect the camera for live view or playback. The default host SSID is nanoQ, default password is 12345678, you can customize the SSID and password in your APP.

options: **OFF**
ON

VIDEO RESOLUTION

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

options: 1920x1080 30fps 16:9
1280x720 60fps 16:9
1280x720 30fps 16:9
VGA 640*480

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: **PERFECT**
GOOD
NORMAL

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

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

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

TIME LAPSE

Here you can set the camera to record TIME LAPSE videos to achieve a snap action effect. This is used in special application such as record the star trail, light line, traffic flow and so on.

- options: **OFF**
10 fps
5 fps
2 fps

PARKING GUARD

When the nanoQ camera was powered by the Parking Guard Hardwire Kit (optional accessory), the camera will react when the engine start/stop; nanoQ will record low frame video clips to save storage space when vehicle engine is not working. The videos will be "quick action" as 30fps and mute when playback. When motion detected or G-sensor activated, nanoQ will record a 15 seconds normal video and then go back to Parking Guard mode again. This files will be protected from over-write by the loop recording function. Please be noticed the camera is fully working under Parking Guard mode so it should be insulated from high temperature. Leave the camera in Parking Guard mode under summer sunshine may destroy the camera (out of warranty) and cause other risk (on your own responsibility).

Even when your camera is powered with Parking Guard Hardwire kit, you can disable Parking Guard function here.

- options: **OFF**
ON

PARKING GUARD PARAMETER

Here you can define the parameters for Parking Guard low frame video.

- options: 1080P 10fps
1080P 5fps
1080P 2fps
720P 10fps
720P 5fps
720P 2fps

SETTING

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.

options: **OFF**
ON

LOOP RECORDING

The nanoQ camera supports automatic loop recording when the card is full. Here you can set the video length according your requirement. If you need a continuous video without any segmentation, please set it to OFF but be aware that the maximum video file size is 4GB as FAT32 standard.

options: 1 MIN
3 MIN
5 MIN
OFF

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**
ON

BOOT SOUND

Here you can active / disable the boot sound and button sound

options: **ON**
OFF

LED INDICATORS

Here you can active / disable the LED indicators for conceal reason.

options: **ON**
OFF

BLUE INDICATOR

Here you can define the indicating function of the green indicator.

options: **GPS STATUS**
MIC STATUS
PARKING GUARD STATUS
OFF

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). 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: **10 SEC**
30 SEC
1 MIN
3 MIN
5 MIN

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

GPS STAMPING

The nanoQ camera can record your driving track and stamp the GPS data on video. Here you can define the GPS data stamping method. Please notice there maybe electronic interference on GPS signal from camera, radar detector, wireless transmitter, hardware kit, car charger, or something else; which will delay the GPS connecting or mistake the GPS data. An external GPS antenna will help to enhance the reliability.

options: OFF
LOG ONLY
STAMPING

SPEED STAMPING

The nanoQ camera can record your driving speed and stamp the speed data on video. Here you can define the speed data display method. Please set GPS STAMPING to LOG ONLY or STAMPING to active GPS if you need speed stamping.

options: **OFF**
KM/H
MPH

REGISTRATION NUMBER STAMPING

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

options: **OFF**
ON

SETTING

REGISTRATION NUMBER

Here you can define the registration number or your customized text 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

Please set the time zone correctly to get the correct time from GPS satellites. You may need to manually add or minus time zone value for daylight saving time, to display the correct time.

LANGUAGE

Here you can set the language you prefer.

options: **ENGLISH**

РУССКИЙ

FORMAT CARD

Here you can format the microSD card to FAT32 format in camera.

Please backup the important files before formatting because all files will be lost once you start the formatting process.

options: **NO**

YES

RESTORE DEFAULTS

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

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.

nanoQ FW 20151225 V1.0

BUTTON

Here you can find the button definition below:

The left ones are shortcut operation keys;

The right ones are recording / playback / setup operation keys.

POWER button:

short press - power ON, screen OFF / ON

long hold - power OFF

MODE button:

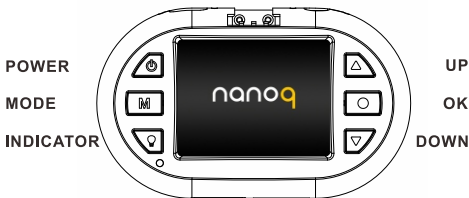
short press - switch video resolution

long hold - Parking Guard ON / OFF

INDICATOR button:

short press - LED indicator OFF / ON

long hold - WiFi host ON / OFF



UP button:

short press - move cursor up, zoom in

long hold - setup menu enter / exit, MIC OFF / ON

OK button:

short press - start / stop recording, confirm the selection

long hold - take photo

DOWN button:

short press - move cursor down, zoom out

long hold - playback enter / exit, file lock / unlock

short press **POWER** button and **UP** button together - reset

Long hold a button means press the button and hold it for more than one second.

CAMERA UI



WHITE BALANCE

0.0EV

EXPOSURE COMPENSATION



LOOP RECORDING



WiFi host status



FILE LOCKED



MIC ON



BATTERY STATUS



VIDEO RECORDING MODE



GPS INVALID



MOTION DETECTION



PARKING GUARD



CARD B WORKING



RECORDING



0.0EV LDWS FCWS

1920X1080 30P

2014/01/01 12:11:11 B 00:35:00 00:02:13

SYSTEM TIME

REMAINING TIME

RECORDING TIME

PLAYER

Registrator Viewer

<http://www.registratorviewer.com>



VIDEO AREA

MAP AREA

PROGRESS BAR

FILE LIST

SPEED

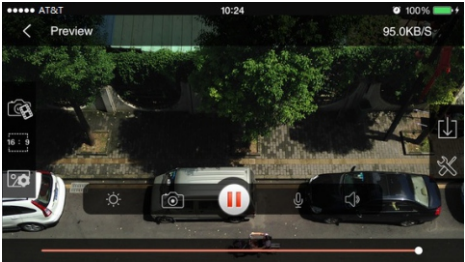
G-SENSOR DATA CONTROL CENTER

MOBILE APP

Application for nanaQ dash camera

You can use the compatible application for your mobile device to live view, setup and playback the camera. (The default SSID is "nanoQ" and default password is "12345678", quotation marks not included.) FinalCam and Youmera APP are recommended.

Once the WIFI HOST is set to ON in camera setting, you can connect your mobile device to the nanoQ WiFi host, then choose ADD CAMERA in the application, the live view screen will pop up automatically.



Download FinalCam:

iTunes



Google Play



Download Youmera:

iTunes



Google Play

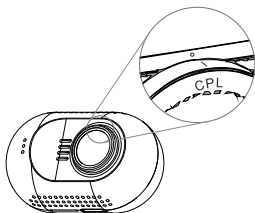


ACCESSORIES

All the accessories listed in this page are optional.

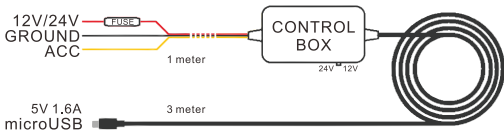
CPL filter

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.



CPL filter is highly recommended for nanoQ camera.

Parking Guard Hardwire Kit



AV-out cable



HDMI cable



Dual USB power cable



5V 1.6A

OBD power cable



TROUBLE SHOOTING

Can't record a video or take picture?

Please check that there is enough storage space on the microSD card, or the files are 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. It is recommended to check your microSD card with H2TESTW program to make sure the card is decent.

"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.

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.

Indicator doesn't work?

Please check the LED INDICATOR menu and set to ON.

Or press the INDICATOR button to enable the indicators.

If the power supply is less than 600mA current, the camera can't be powered 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 or Parking Guard 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 mention 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

Maybe the camera is working on Motion Detect mode or Parking Guard mode;. 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.

Built-in super capacitor battery run out in short duration

The camera need 10 minutes to recharge the battery then the battery will supply 6 seconds power for file saving before drain. Please don't start / stop your vehicle engine frequently in minutes.

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

Please press POWER button and UP button on the same time, the camera will auto reset.

More questions? Please get help from www.nanodashcam.com!

SPECIFICATION

nanoQ camera specification

SONY IMX322 2MP CMOS image sensor
135° angle view field, F1.7 aperture
1.5inch TFT LCD screen
full HD recording 1920*1080px 16:9 30fps
HD recording 1280*720px 16:9 60fps
H.264 coding MOV file recording
supports microSD card up to 64GB
supports WiFi host for mobile device live view and playback
supports Wide Dynamic Range boost
supports GPS trace logging
supports G-sensor file protection
supports SOS manual file protection
supports Parking Guard (with Parking Guard hardwire kit)
supports movement detection
supports Lane Departure Warning System
supports Forward Collision Warning System
supports up-side-down mounting
supports HDMI and AV-out output to TV
supports magnetic Circular Polarizing Filter
supports compatible mounting
built in super capacitor battery (5V 5F)

nanoQ camera box content (standard GPS&WiFi version)

dash camera unit
GPS logger mounting bracket
compatible mount
power lead for cigar lighter socket 5V 2A
USB data Cable
cable clips
VHB sticker pads
lens cleaner
manual
optional: microSD card(s), 24mm CPL filter, Parking Guard hardwire kit, common hardwire kit, dual USB hardwire kit, HDMI cable, AV-out cable, microSD-USB card reader, microSD-microUSB OTG card reader

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)

SUPER CAPACITOR BATTERY

The built in Super Capacitor Battery can provide 6 seconds working time for safe shutdown after power lose. The battery will be recharged automatically once input power connected. Don't power on the camera without a external power supply.



nanoQ DASH CAMERA

MORE THAN A DASH CAMERA

nanoq