MiSentry 12T

User Manual

Mio™
all about you

Revision: R00
(05/2024)

Disclaimer

The screenshots in this manual may differ between different operating systems and software versions. You can download the latest User Manual of your product from Mio™ website (www.mio.com).

Specifications and documents are subject to change without notice. MiTAC does not warrant this document is error-free. MiTAC assumes no liability for damage incurred directly or indirectly from errors, omissions or discrepancies between the device and the documents.

Note

Not all models are available in all regions.

Depending on the specific model purchased, the colour and look of your device and accessories may not exactly match the graphics shown in this document.

MiTAC Europe Ltd.
The Pinnacle, Station Way, Crawley RH10 1JH, UK

MiTAC Europe Ltd. Sp. Z o. o, Oddzial w Polsce
ul. Puławska 405 A, 02-801 Warszawa, Poland

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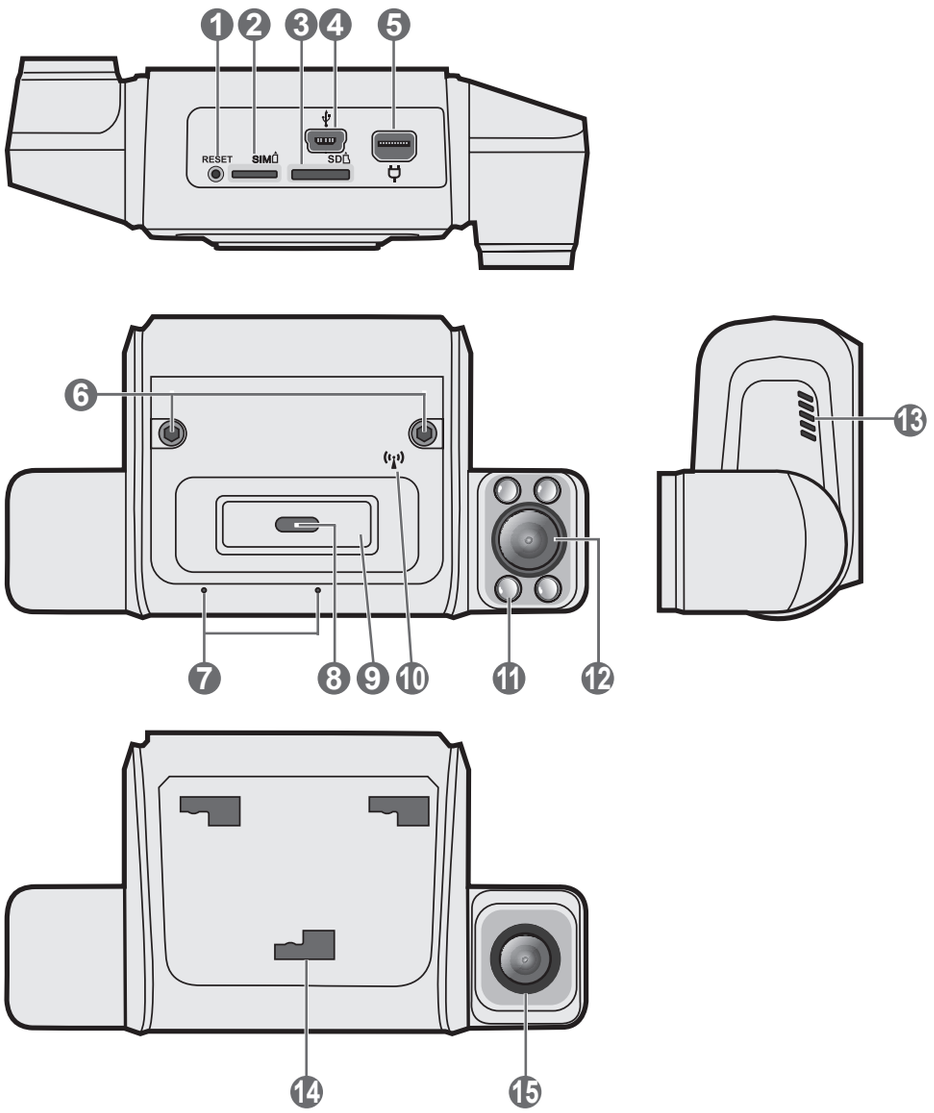
Getting to know your dash cam

ⓘ Screenshots and other presentations shown in this manual may differ from the ones generated by the actual product.

MiSentry 12T



1. Reset button
2. SIM card slot
3. Memory card slot
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6. Camera locking screws
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8. Recording indicator
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11. Infrared illuminator (x4)
12. Driver-facing camera
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14. Mounting slots
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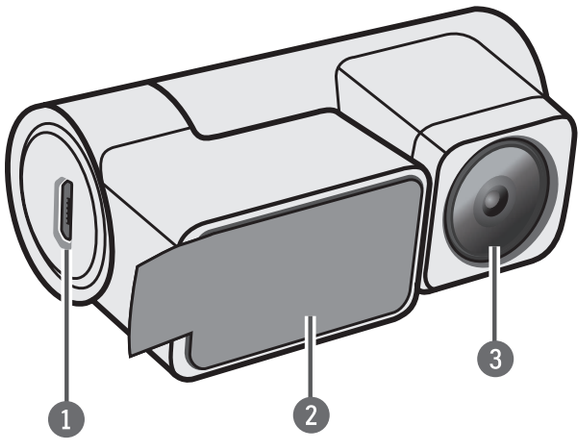
Rear recording camera



1. Micro-USB port
2. Mounting base
3. Camera lens

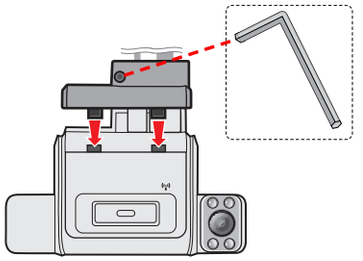
Using a memory/SIM card

ⓘ MiTAC does not guarantee the product's compatibility with MicroSD cards from all manufacturers.

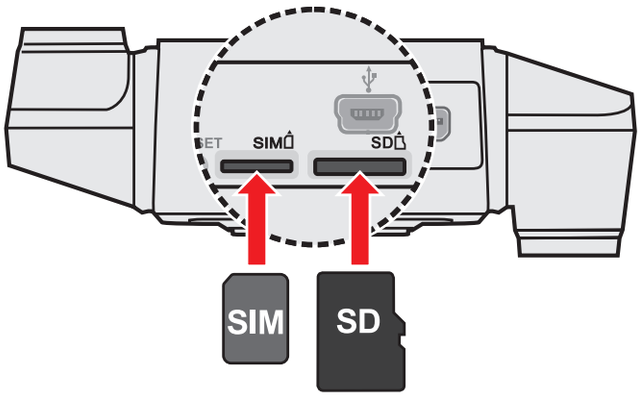
ⓘ The provided SIM card is specifically configured for driving recorders only and cannot be used in other devices.

A MicroSD card (up to 256GB in capacity) and a Nano SIM card must be inserted prior to mounting the dash cam on the windscreen.

The device's memory / SIM card slots and connection ports are concealed by the I/O port cover. Use the hex key to loosen the screw and lift the cover to gain access.

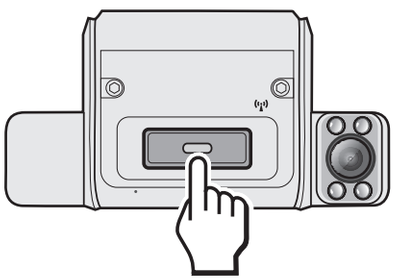


Hold the card by the edges and gently insert it into the slot as shown in the illustration. To remove a card, gently push the top edge of the card inwards to release and pull it out of the slot.



Formatting a card

Press and hold the event recording button for 10 seconds to format the SD card (all data will be erased).



Installing your dash cam

Make sure your car is parked on level ground. Follow the instructions below to mount your dash cam in a vehicle securely.

Precautions and notices

- Do not operate the device while driving. Using this product does not change the requirement for a driver to take full responsibility for his or her driving behaviour. This responsibility includes observing all traffic rules and regulations in order to avoid accidents, personal injuries or property damage.
- A window mount is needed when using the dash cam in a car. Make sure that you place the dash cam in an appropriate place, so as not to obstruct the driver's view or deployment of airbags.
- Make sure that no object is blocking the camera lens and no reflective material is placed near the lens. Please keep the lens clean.
- If the car's windscreen is tinted with a coating, it may impact recording quality.
- To ensure the highest quality recordings, you are advised to place the dash cam near the rear view mirror.
- Select an appropriate location for mounting the device in a vehicle. Never place the device where the driver's field of vision is blocked.
- If the car's windscreen is tinted with a reflective coating, it may be athermic and impact GPS reception. In this instance, please mount your device in a "clear area".
- The system will automatically calibrate the G-sensor of the device during startup. To avoid G-sensor malfunction, always turn the device on AFTER it is properly mounted in the vehicle.

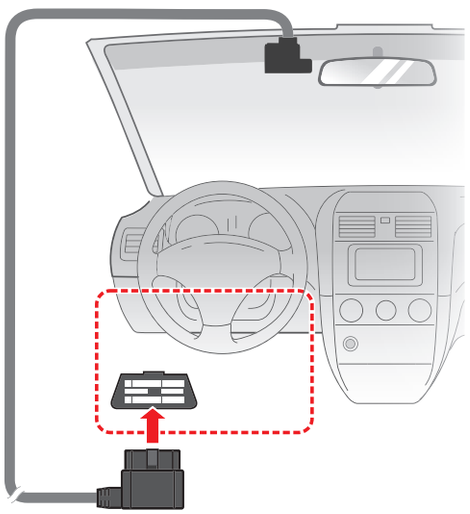
Mounting location & cable layout

ⓘ The placement of the device and cables may vary depending on the vehicle model. If you encounter any problems during installation, contact a skilled installer (such as the service personnel of the vehicle) for assistance.

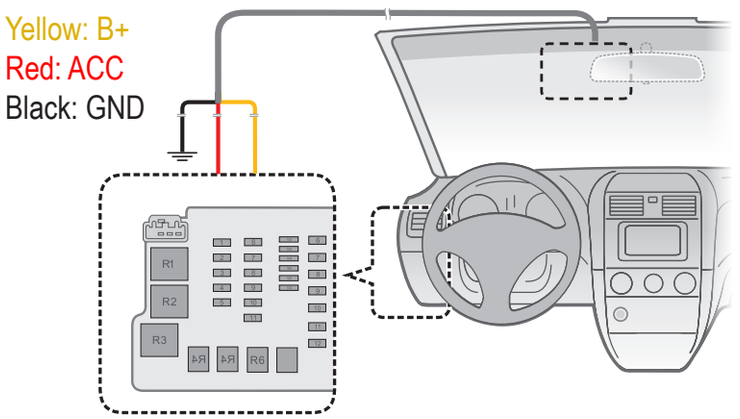
ⓘ Route the cable through the top ceiling and the A-pillar so that it does not interfere with driving. Make sure that the cable installation does not interfere with the vehicle's airbags or other safety features.

In most cases, the recommended location for mounting the dash cam is behind or near the rear-view mirror. Use the OBD-II cable (connected to the vehicle's OBD-II port) or open wire cable (connected to the vehicle's fuse box) as the main cable to connect to the power source:

OBD-II cable



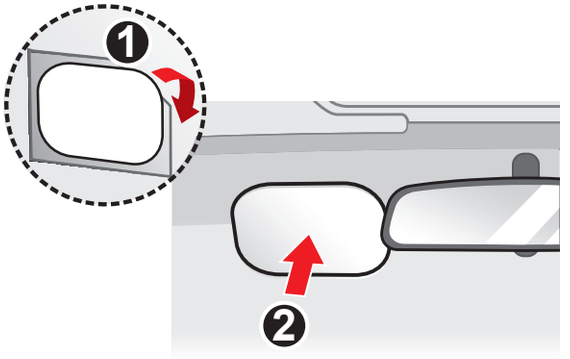
Open wire cable



ⓘ The vehicle's OBD-II port and fuse box are usually located near or under the steering wheel.

Route the main cable inside the vehicle, leaving the main connector exposed at where the dash cam is to be installed on the windscreen and the other end going toward the vehicle's power source.

Mounting the dash cam

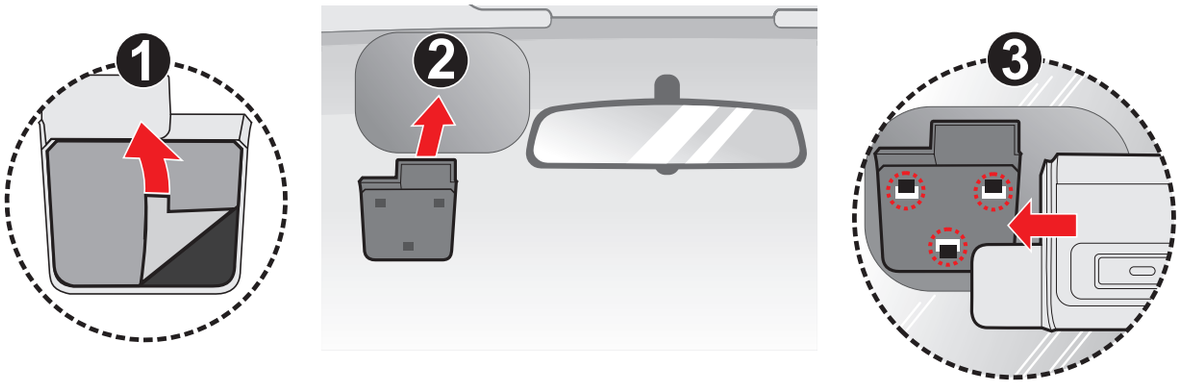


Before attaching the device mount to the windscreen, it is recommended to clean the windscreen with rubbing alcohol and make sure that the installation area is free of dust, oil and grease. Attach the static cling film to the windscreen.

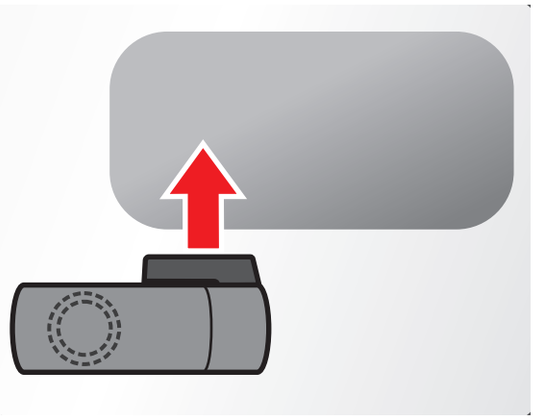
Peel the film off the back of the mounting plate and affix the plate securely onto the windscreen. Press on the plate firmly for approximately 30 seconds to ensure it is mounted securely.

Wait at least one hour (a wait period of 24 hours is recommended) before attaching the dash cam to the mounting plate in order for the adhesive to form a strong bond between surfaces.

Attach the dash cam to the mounting plate by matching the positions of the mounting holes on the back of the dash cam with the hooks on the rear plate. Slide the dash cam sideways until it clicks in place.



Mounting the rear recording camera

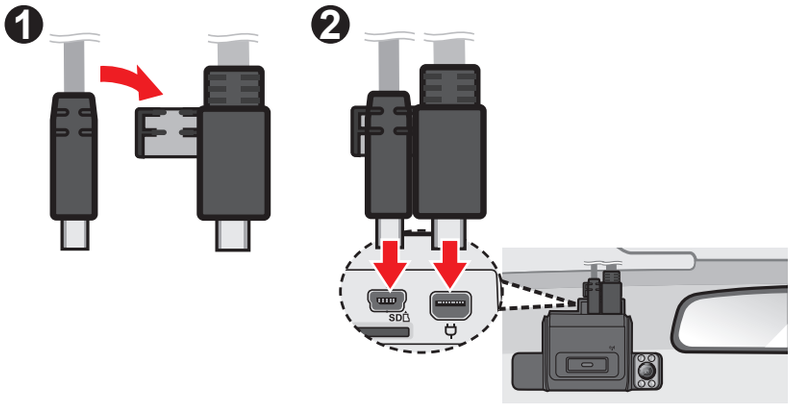


Before installing the rear recording camera, please wipe the window surface clean with rubbing alcohol. Select a suitable location for mounting the camera so that the driver's field of vision is not obscured.

Attach the static cling film to the rear window, then affix the rear recording camera on the static cling film.

Cable connections

With the device's I/O port cover removed, line up the rear recording camera connector with the main power connector then insert both connectors into the corresponding ports.



Reattach the I/O port cover and fasten the screw, then follow the instructions in the next chapter to install MioNext and adjust camera angles.

MioNext

MioNext is the companion app for your MiSentry 12T dash cam. It is available for iOS and Android devices. Search for “MioNext” in the Apple App Store or Google Play Store to download the app for free.

ⓘ MioNext requires iOS 15.0 / Android 10 or later.

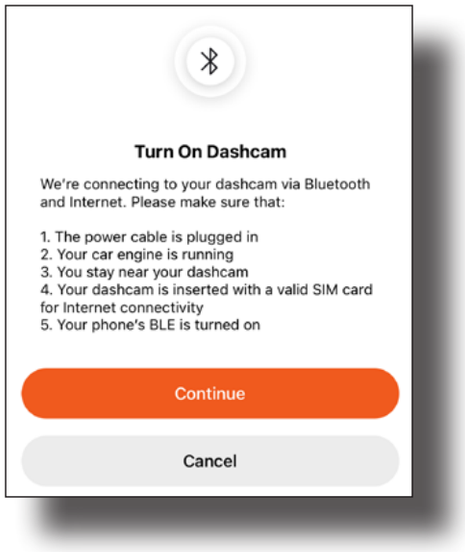
ⓘ Screenshots may differ between different operating systems and software versions.

Account log in / registration

Launch MioNext and log in with your Mio account. If you do not have an account, tap **Sign up** to create a new account. You can also register for a new account at Mio's official website (www.mio.com).

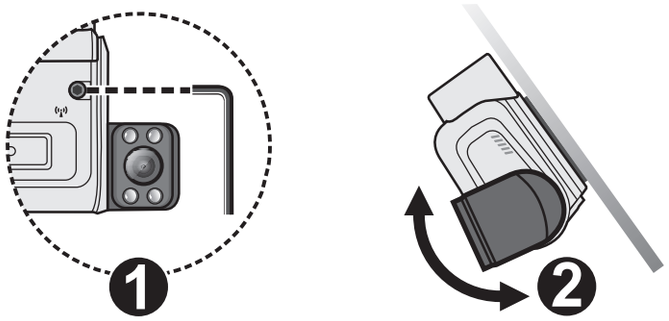
Connecting the dash cam & MioNext

Launch MioNext on the smartphone and follow the app’s on-screen instructions to complete the pairing process via Bluetooth.

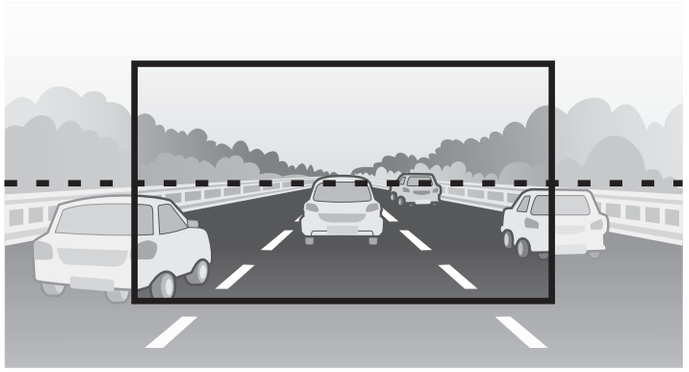


Adjusting camera angle

The position of each camera lens on the dash cam is locked by a camera locking screw. Loosen the corresponding screw with the provided hex key prior to adjusting the camera angle.



Turn on the dash cam by starting the vehicle ignition. On MioNext's Map View screen, tap **Live view** to open a live view of the front-facing camera and adjust its viewing angle accordingly. When adjusting the angle of a road-facing camera, make sure that the camera's view is parallel with the level ground and the ground to sky ratio is close to a 50/50 split.

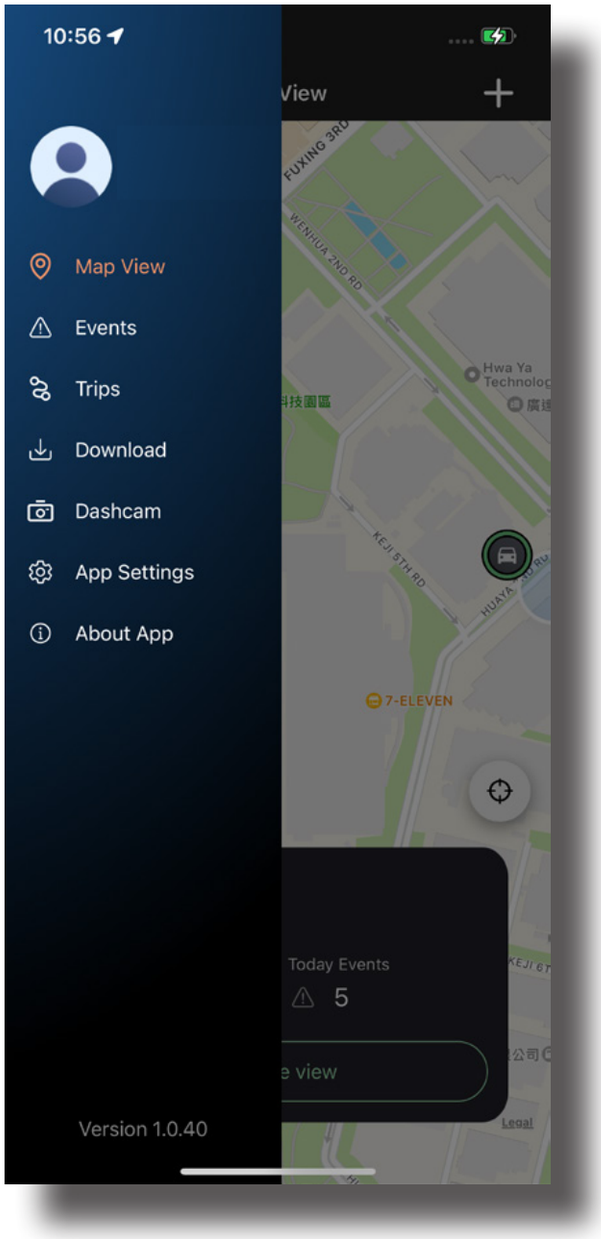


Tighten the locking screw to lock each camera's position once the angle is set. Tap to switch between the live views of different cameras.

Using MioNext

In MioNext, tap ☰ on any page to open the main menu:

- **Map View:** Provides the vehicle's current location on the map and a summary of today's trips and events.
- **Events:** Views event videos recorded by the dash cam. Tap ▼ to filter the list by date and/or event type.
- **Trips:** Displays a calendar which allows you to view all of the trip information recorded on a selected date. Dates with trip data available are marked with a " • ".
- **Download:** Shows a list of videos downloaded from the SD card and cloud storage. Tap ▼ to filter the list by date and/or event type.
- **Dashcam:** Shows the dash cam(s) currently connected to MioNext. Tap on a dash cam to change device settings and view detailed device information.
- **App Settings:** Enables/disables push notifications, sets MioNext's display language, and selects the preferred system for measuring distances.
- **About App:** Displays additional information about the app.



Recording in driving mode

Continuous recording

Once vehicle engine is started, the dash cam will automatically turn on and begin continuous recording. The recording may be divided into several video clips; recording will not stop between video clips.

Continuous recordings are saved under the “Normal” folder on the memory card. When your memory card fills up with continuous recordings, it will automatically record over the oldest existing files in this category.

Event recording

By default, if an event happens, such as a sudden impact, high speed driving, an aggressive turn or an accidental crash during continuous recording, the G-sensor will prompt your Mio to start recording the event.

Videos captured by event-driven or emergency recording will include footage from several seconds prior to several seconds after the detected event.

If you want to manually start an event recording while continuous recording is in progress, press the event recording button.

Event recordings are saved under the “Event” folder on the memory card and in cloud storage for a period of 90 days. When the memory card fills up with event recordings, it will record over the oldest existing files in this category.

Parking recording

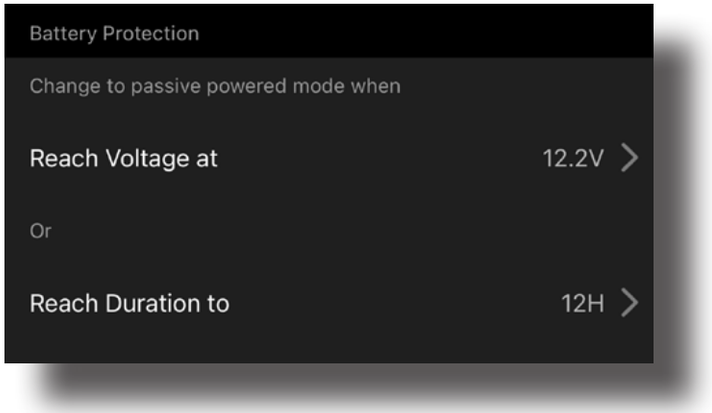
Your dash cam supports the parking recording function. In MioNext, tap ☰ > **Dashcam** > (select your dash cam) > **Dashcam settings** > **Events** to configure Parking Recording settings.

- **Smart Mode:** Supports recordings that are triggered by the G-sensor and motion detection (unless **Motion Detection** is disabled manually in the settings).
- **Passive Powered Mode:** Supports recordings after G-sensor detections are triggered.

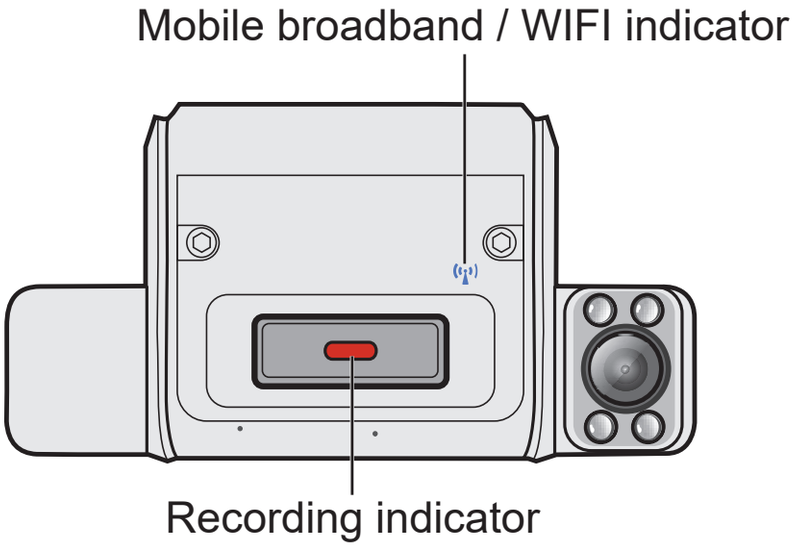
Parking recordings are saved under the “Parking” folder on the SD card and in cloud storage for a period of 90 days. When the memory card fills up with parking recordings, it will record over the oldest existing files in this category.

Battery over-discharge protection

Battery Protection settings are located near the bottom of the **Events** setting page. To prevent over-draining the battery while Smart Mode recording is active, the dash cam will automatically switch to Passive Powered Mode once the battery voltage or monitoring period has reached the specified value.



LED indicators



Recording indicator	
Always on	Continuous recording in progress
Flashing slowly	Event recording in progress
Flashing rapidly	SD card error detected

Mobile broadband / WIFI indicator	
Always on	Mobile broadband connected
Flashing	Mobile broadband disconnected
Always on	Connected as WIFI hotspot

Viewing/downloading recorded videos

Videos captured during a triggered event while driving or parked are saved in cloud storage for a period of 90 days as well as on the device's memory card, while videos captured via continuous recording are saved on the memory card only. It is important to download any important video files you wish to keep before the 90-day expiration period or the file saved on the SD card is overwritten by the dash cam's loop recording function.

Accessing videos from cloud storage

Open MioNext, tap ☰ > **Events** then select a video to play the file. Tap ⬇ to download the file to your smart phone. Downloaded videos can be accessed by going to ☰ > **Download**.

Accessing videos from the memory card

Open MioNext, tap ☰ > **Dashcam** > (select your dash cam) > **View SD Card Files** to connect to the dash cam via WIFI. Select a folder (Normal, Events or Parking) then select a file to play or download. Downloaded videos can be accessed by going to ☰ > **Download**.

Safety camera alerts

ⓘ For legal reasons, the safety camera function is not available in all countries.

ⓘ MiTAC does not warrant that all types and locations of safety camera data are available as cameras may be added, removed or relocated.

You can receive alerts to warn you about the locations of safety (speed) cameras which will enable you to monitor your speed through these areas.

When a safety camera appears and is positioned in the detectable direction, you will receive alerts.

Updating safety camera data

Occasionally, MiTAC may offer updates on safety camera data. The dash cam will automatically download and install updates when available.

Customising the settings

In MioNext, tap ☰ > **Dashcam** > (select your dash cam) > **Dashcam settings** to configure device settings.

Video Recording

- **Inward Camera:** Enables/disables the driver-facing camera.
- **Record Sound:** Sets if you want to include sounds in the recordings.
- **Stamps:** Enables/disables the display of additional information on the recorded video.
- **Video Clip Length:** Displays the recording length of video clips.
- **Outward Camera EV Value:** Sets the exposure level of the front-facing camera to adjust the brightness of the image.
- **Inward Camera EV Value:** Sets the exposure level of the driver-facing camera to adjust the brightness of the image.

Events

- **Sensitivity of Impact:** Sets the sensitivity level of the G-sensor that allows automatic triggering of event recording while continuous recording is in progress.
- **Parking Detection:** When enabled, the dash cam will automatically start recording when it detects movements or if an event happens while the vehicle is parked.
- **Mode:** Sets parking mode monitoring to **Smart Mode** or **Passive Powered Mode**.
- **Sensitivity of Parking Impact:** Sets the sensitivity level of the G-sensor that allows automatic triggering of parking recording when the dash cam is in Parking mode.
- **Motion Detection:** Enables/disables motion detection under **Smart Mode**.

- **Sensitivity of Motion Detection:** Sets the sensitivity level of motion detection to **Low**, **Medium** or **High**.
- **Reach Voltage at:** Parking mode monitoring will automatically switch to **Passive Powered Mode** once the battery voltage has reached the specified value.
- **Reach Duration to:** Parking mode monitoring will automatically switch to **Passive Powered Mode** once the monitoring period has reached the specified value.

SafetyCam

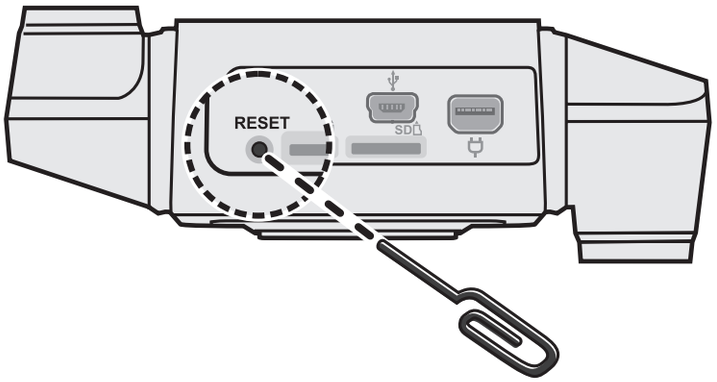
- **SafetyCam Detection:** Enables/disables safety camera alerts.

System

- **Volume:** Adjusts the volume level.
- **Language:** Sets the language of dash cam notifications.
- **Low Voltage Shutdown:** The dash cam will stop drawing power once the battery voltage has reached the specified value.

Restarting the dash cam

Occasionally, you may need to perform a hardware reset when your Mio stops responding or if it appears to be “frozen” or unresponsive. To restart your Mio, insert a pointy object (such as a straightened paperclip) into the Reset button.



ⓘ The Reset button is only accessible after removing the I/O port cover.

For more information

Caring for your device

Taking good care of your device will ensure trouble-free operation and reduce the risk of damage.

- Keep your device away from excessive moisture and extreme temperatures.
- Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.
- Do not place anything on top of your device or drop objects on your device.
- Do not drop your device or subject it to severe shock. Installation height < 2m.
- Do not subject your device to sudden and severe temperature changes. This could cause moisture condensation inside the unit, which could damage your device. In the event of moisture condensation, allow the device to dry out completely before use.
- Never clean your device with it powered on. Use a soft, lint-free cloth to wipe the screen and the exterior of your device.
- Never attempt to disassemble, repair or make any modifications to your device. Disassembling, modifying or any attempt to repair could cause damage to your device, may inflict bodily harm or damage to property and will void any warranty.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device, its parts or accessories.
- To discourage theft, do not leave the device and accessories in plain view in an unattended vehicle.
- Overheating may damage the device.
- Operating temperature: 60°C (Max.); Storage temperature: -20°C to 80°C.

About GPS

- GPS is operated by the United States government, which is solely responsible for the performance of GPS. Any change to the GPS system can affect the accuracy of all GPS equipment.
- GPS satellite signals cannot pass through solid materials (except glass). When you are inside a tunnel or building, GPS positioning is not available. Signal reception can be affected by situations such as bad weather or dense overhead obstacles (such as trees, tunnels, viaducts and tall buildings).
- The GPS positioning data is for reference only.

Safety precautions

- Use only the charger supplied with your device. Use of another type of charger may result in malfunction and/or danger.
- Do not use the charger in a high moisture environment. Never touch the charger when your hands or feet are wet.
- Allow adequate ventilation around the charger when using it to operate the device or charge the battery. Do not cover the charger with paper or other objects that will reduce cooling. Do not use the charger while it is inside a carrying case.
- Connect the charger to a proper power source. The voltage requirements are found on the product case and/or packaging.
- Do not use the charger if the cord becomes damaged.
- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

Regulatory information

For regulatory identification purposes, MiSentry 12T is assigned a model number of N664.

European Union Compliance Information

CE Products with the CE marking comply with the Radio Equipment Directive (RED) (2014/53/EU) - issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Standards:

EN 301 489-1 V2.2.3 (2019-11)

EN 301 489-3 V2.1.1 (2019-03)

EN 301 489-17 V3.1.1 (2017-02)

EN 301 489-19 V2.1.1 (2019-04)

Draft EN 301 489-52 v1.1.0 (2016-11)

EN 55032:2015/A11:2020 Class B

EN 55035:2017/A11:2020

EN 50498:2010

ISO 7637-2:2004

EN 300 328 V2.2.2

EN 300 440 V2.1.1; 2017

IEC 62368-1:2018 (EN 62368-1:2020/A11:2020)

The manufacturer cannot be held responsible for modifications made by the User and the consequences thereof, which may alter the conformity of the product with the CE Marking.

IEEE 802.11 b/g/n 2.4GHz

- Operating frequency range: 2400~2483.5 MHz
- Maximum output power: 13dBm

IEEE 802.11 a/n/ac 5GHz

- Operating frequency range: 5150~5850 MHz
- Maximum output power: 14.6dBm

BT (LE)

- Operating frequency range: 2400~2483.5 MHz
- Maximum output power: 12.8dBm

LTE

- Operating frequency range: 703~2690 MHz
- Maximum output power: 24.52dBm

Declaration of conformity

Hereby, MiTAC declares that this N664 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. Visit Mio's website (www.mio.com), go to the support page and select the product (MiSentry 12T) to download files with the full text of the Declaration of conformity and User Manual for your device.

WEEE

This product must not be disposed of as normal household waste, in accordance with the EU directive for waste electrical and electronic equipment (WEEE – 2012/19/EU). Instead, it should be disposed of by returning it to the point of sale, or to a municipal recycling collection point.