




Motorcycle Drive Recorder EDR-22GK-A/EDR-22GK-B

Operating instructions

Please read this manual carefully to ensure correct and safe use.

| | |
|--|---|
| <div><div></div><div>In this manual, the following marks are used to indicate items that are important for safety. The meaning of each mark is as follows:</div></div> | |
| <div><div><div>Danger</div></div></div> | If handled improperly, this indicates "high risk of death or serious injury." |
| <div><div><div>Caveat</div></div></div> | This indicates that improper handling may result in death or serious injury. It also means "violating the law." |
| <div><div><div>Note</div></div></div> | This indicates that improper handling may result in "risk of injury" or "risk of property damage." |

- ※ The specifications and appearance of this product and related software may be changed without notice for improvement purposes.
- ※ Reproduction of any part or all of the contents of this book without permission is strictly prohibited.

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Safety Precautions

Before use, please read these "Safety Precautions" carefully and use the product correctly.

The precautions listed here are intended to ensure the safe and correct use of this product and to prevent injury or damage to the user.



Danger

- In the event of any abnormality, malfunction or damage, immediately turn the ignition switch OFF, stop using the product, and consult an authorized Kawasaki dealer. If used as is, it may cause fire or electric shock.
- This product is a wireless communication(2.4GHzband)I am using. Cardiac pacemakers, defibrillators, etc.If you are using a medical device, please consult with the medical electrical device manufacturer or your doctor regarding the effects of this product on your medical device.
- This product(Main unit, camera, switch,GPS Antennas, power supply units, various cables and cords)of Absolutely no disassembly,Do not modify.fire,Electric shock,This may cause a malfunction.
- Please check regularly to make sure the screws on the camera stay are not loose. This may cause parts to fall off, resulting in an accident or malfunction.



Caveat

- Never operate your smartphone while driving. This may cause an accident. surely, please stop the vehicle in a safe place before operating the device.
- Do not operate the Wi-Fi connection while driving. This may cause an accident.
- Do not stare at the switch indicator while driving. This may cause an accident.Furthermore, such actions are a violation of Article 71 of the Road Traffic Act and are subject to punishment.
- The technical standards compliance number is printed on the label on the main unit. This label must never be removed.Please do not do so. Using the product with the sticker removed will violate the Radio Law.
- Disassembly or modification is prohibited by the Radio Law. Please do not do this under any circumstances.



Note

- Do not drop, hit, or subject this product to strong impact. This may cause damage or malfunction.
- Do not place objects with strong magnetic fields near this product. This may cause a malfunction.
- Do not allow gasoline, oils, organic solvents, acids, brake fluid, etc. to come into contact with this product. This may cause deterioration, damage or malfunction of the attachment parts.
- Do not use any fuses other than those specified. Using a fuse other than that specified may result in fire or malfunction. Be sure to replace it with one of the specified capacity (ampere).
- Do not insert foreign objects into the SD card slot. This may cause fire, electric shock, or malfunction.
- Do not insert or remove the SD card with wet hands. This may cause fire, electric shock, or malfunction.
- Before inserting or removing the SD card, make sure the ignition switch is turned OFF. This may cause a malfunction.

■ Precautions for Use

Notes on recording

- This product does not guarantee that video or audio recording will be possible under all circumstances. If the product or SD card is damaged due to the severity of the accident or being submerged in water, it may not be possible to record video.
- There is no guarantee that the footage recorded by this product will serve as evidence of an accident.
- Please note that we cannot be held responsible for any damage caused by a malfunction or use of this product (such as loss, damage or destruction of recorded footage or data).
- Depending on the video recording cycle of this product and the cycle of the LED traffic light, the light may be recorded blinking or off. In addition, depending on the environment, such as backlighting, it may not be possible to distinguish colors. Please note that we cannot take any responsibility for any damages caused by this event.
- This product's camera uses a wide-angle lens. Due to the characteristics of wide-angle lenses, distortion and shadows will occur in some parts of the image. In addition, the image will be different from the actual perspective.
- If you want to keep the recording file at the time of the accident, either remove the SD card from the main unit and store it away, or lock (protect) the recording file at the time of the accident using the dedicated smartphone app. You may also take measures such as copying the files to your smartphone or PC.
- Images recorded with this product may infringe on rights such as privacy, depending on the purpose and method of use. Please note that we cannot take any responsibility for this.
- To ensure clear recording of footage, make sure the camera lens is clean before driving. If it is dirty, wipe it gently with a soft cloth dampened in water. Rubbing the lens too hard with a dry cloth may cause scratches.

After recording starts, the time is automatically synchronized by receiving GPS signals, but there may be a discrepancy in the time recorded in the file at the start of recording. If it has been a while since your last ride, please synchronize the time using the dedicated smartphone app before riding.

Notes on GPS function

- GPS positioning may not be possible depending on the surrounding environment, it may take a long time to determine position, or there may be errors.
- If you are unable to receive GPS signals while driving, such as in a tunnel or in a crowded area, it may take some time to locate your position again.
- Do not use high-output wireless devices near this product. Radio waves emitted by wireless devices may cause malfunctions.

■ Precautions for Use (continued)

Wireless LAN Notice

- This product meets the technical standards as a low-power data communications system radio equipment under the Radio Law. Therefore, no radio station license is required to use this product, but if used outside of Japan, it may violate the radio laws of each country.
- The frequency band used by this product (2.4 GHz band) is used by home electrical appliances such as microwave ovens, industrial, scientific and medical equipment, as well as in-plant radio stations for mobile identification (radio stations requiring a license) used in factory production lines, specific low power radio stations (radio stations not requiring a license), and amateur radio stations. Before using this product, please make sure that no such wireless stations are operating nearby. In the unlikely event that radio interference occurs between this product and those radio stations, immediately move the product to a different location or stop using it.
- We have not tested this product to ensure it will connect to all smartphones, so we cannot guarantee that it will work with all smartphones.

Handling Precautions

- To prevent theft, be sure to remove the SD card from the unit when leaving the vehicle.
- When washing your car, do not spray high-pressure water from a pressure washer or a narrow hose directly onto this product. This may cause a malfunction.
- When cleaning the main unit, camera, switch, GPS antenna, or power unit, wipe them gently with a soft cloth dampened with water. Rubbing too hard with a dry cloth may cause scratches. Also, never use solvents or abrasives such as benzine or thinner. This may cause parts to deteriorate, break, or fail.
- Do not insert rod-shaped objects into the microphone hole on the top of the unit. This may cause water to enter the device and cause malfunctions.
- Do not insert any rod-shaped objects into the ventilation hole on the waterproof cap or block the ventilation hole. This may cause water to enter the device and cause malfunctions.
- Never remove the serial number label attached to the part of the main unit where the waterproof cap is opened. Depending on the warranty provisions, you may not be able to receive repairs, replacements, etc.
- Make sure to securely lock the waterproof cap on the main unit with the slide cap. This may cause water intrusion and malfunction.
- Do not use the unit with the waterproof cap open. This may cause water intrusion and malfunction.

■ About SD Card^{※1}

● This product comes with SD card or SD Please use your card.

If you are purchasing a new SD card, we recommend the SD card manufactured by Mitsuba Sankowa Co., Ltd. For more information about the product, please check the URL or QR code below.

https://www.mskw.co.jp/motorcycle/edr/option#div_02



● Please use an SD card that meets the following conditions with this product.^{※2}

| | |
|---------------------------|-----------------------------|
| Storage media | microSDHC / microSDXC |
| Capacity | 8 ~ 256GB |
| Speed Class ^{※3} | Class 10 / U1 / U3 |
| Format type ^{※4} | 8 ~ 256GB : FAT32 |
| | Allocation unit size : 64KB |

※1 In this manual, unless otherwise specified, microSDHC cards and microSDXC cards are referred to as "SD cards."

※2 If you use an SD card other than that manufactured by MITSUBASANKOWA Co., Ltd., it may not function properly.

※3 Speed class is a standard for continuous writing speed.

※4 If you are using an SD card other than that manufactured by Mitsuba Sankowa Co., Ltd. for the first time, be sure to format it with this product. In addition, when you use an SD card with this product for the first time, the indicator on this product may display an abnormality. For instructions on how to format an SD card, see "Formatting an SD card" (page 31) in this manual.

● SD card safety precautions



Caveat

- Keep out of reach of children. There is a risk of accidentally swallowing it. If swallowed, consult a doctor immediately.
- Do not disassemble or modify. This may cause equipment damage, fire, or malfunction.
- Do not bend, apply strong force to, drop, subject to strong impacts, or place heavy objects on the product. This may cause fire, burns, or malfunction.
- If the product emits any unusual sounds or smells, or if it generates abnormal heat or smoke, immediately discontinue use and unplug the power cord (red). This may cause fire, burns, or malfunction.

● Precautions when handling SD cards



Note

- Please back up any files you need before formatting. Formatting will erase all files.
- Do not insert or remove the SD card when it is wet. This may cause fire, electric shock, or malfunction.
- When inserting or removing the SD card, please follow the instructions in the instruction manual for the device you are using. This may cause malfunctions or damage to files.
- When connecting an SD card to a PC, use a card reader/writer that conforms to the SD card standards. This may cause malfunctions or damage to files.
- Because the drive recorder repeatedly overwrites data, please format the SD card regularly.
- When you insert or connect an SD card to a device other than a Windows PC, folders and files may be created automatically. If there are any folders or files other than the "EDR_MotoDR" folder on the SD card, it may cause malfunction. Be sure to delete it before use or format it with this product.
- SD cards are consumable items. If it cannot be formatted correctly, please replace it.

■ About the dedicated smartphone app "Moto DR"

When using this product, we recommend using a smartphone and the dedicated smartphone app "Moto DR" (free).

Please access using the QR code below and install it on your smartphone.

※The customer is responsible for any communication charges associated with the installation.

For iPhone, click here



For Android, click here



※You can also search for and install the app by entering "Moto DR" in the search screen of the official app store, App Store (iOS) or Google Play (Android).

For details on how to use the dedicated smartphone app "Moto DR", please see the URL or QR code below.

https://www.mskw.co.jp/pdf/edr_howtomotodr.pdf



■ About the dedicated PC software "Moto DR Player"

Please download the dedicated PC software "Moto DR Player" from the URL below.

<https://www.mskw.co.jp/motorcycle/edr/support/>

For details on how to use the dedicated PC software "Moto DR Player", please see the URL or QR code below.

https://www.mskw.co.jp/pdf/edr_howtodrplayer.pdf



●System requirements for the dedicated PC software "Moto DR Player" As of March 2022

- O S : Microsoft Windows 10 Version 1809 or later
(Only 64-bit version is available)
 - C P U : Intel Core i3 3.0GHz or higher
 - Memory : 4GB or more
 - GPU memory : 1GB or more
 - Monitor : 1280 x 1024 pixels or more
 - Other :
 - microSD card slot compatible with microSDHC and microSDXC
When using an SD card adapter, use an SD card slot that supports SDHC and SDXC or a microSD/SD card reader/writer with a USB connection.
 - Internet connection environment (if you want to display maps)
- ※ Operation is not guaranteed on all PCs that meet the above system requirements.
- ※ Depending on your PC environment, some functions may not work or may not be displayed or played correctly.

For inquiries regarding the dedicated smartphone app and dedicated PC software, please contact the MITSUBASANKOWA Customer Support Center listed below.

☎ 0277-30-5802

Things you can do with the dedicated smartphone app/PC software

※ App and software specifications are subject to change without notice.

| | Dedicated smartphone app Moto DR | Dedicated Windows PC software Moto DR Player |
|--|-------------------------------------|---|
| ■ Main unit function operation and setting | | |
| ● Check the camera angle | ● | × |
| ● Formatting the SD card | ● | × |
| ● Image size and image quality settings | ● | ● |
| ● Audio recording ON/OFF setting | ● | ● |
| ● Impact detection sensitivity setting | ● | ● |
| ● Recording file overwrite ON/OFF setting | ● | ● |
| ● Time Synchronization | ● | × |
| ● Changing the wireless LAN connection password | ● | × |
| ■ Recording file operations | | |
| ● Playing Recorded Files | | |
| • Playback of recorded files on the main unit's SD card | ● | × |
| • Playback of recorded files saved on your smartphone | ● | × |
| • Playback of recorded files on an SD card connected to a PC | × | ● |
| • Playback recording files backed up to the PC's internal storage | × | ● |
| ● Protect/unprotect recording files | | |
| • Individual file protection (overwrite protection) and unprotection of recorded files | ● | × |
| ● Downloading Recording Files | | |
| • Download the recording file and save it on your smartphone | ● | × |
| ● Downloading Recording Files | | |
| • Back up recording files and save them to your PC's internal storage | × | ● |
| ● Display of driving trajectory | | |
| • Display of vehicle position and driving route on map during playback | ● | ● |
| ● Display of driving speed | | |
| • Display of estimated driving speed during playback based on GPS positioning data | × | ● |

■ Recording/audio settings list

The video/audio recording items that can be set with this product are as follows.

- Settings can be changed using the dedicated smartphone app "Moto DR" or the dedicated PC software "Moto DR Player."

| item | Settings (★indicates default value) | explanation |
|------------------------------|--|--|
| Image size | <div> ★1080P FHD <div> ↑ High <div> ↓ Clarity <div> ↓ Low </div> </div> </div> </div> 720P HD <div> </div> VGA <div> </div> | <ul style="list-style-type: none"> • Set the recording resolution. • Increasing the image size will provide better clarity but will reduce available recording time. • Lowering the image size will result in less clarity but will allow for more recording time. |
| image quality | <div> ★HIGH <div> ↑ Few <div> ↓ Block noise <div> ↓ Many </div> </div> </div> </div> MID <div> </div> LOW <div> </div> | <ul style="list-style-type: none"> • Set the image quality. • Increasing the image quality will result in less noticeable block noise and better color reproduction, but will reduce the available recording time. • Lowering the image quality will result in more noticeable block noise and poor color reproduction, but will increase the available recording time. |
| Impact Detection Sensitivity | <div> <div> LEVEL5 <div> ↑ Insensitivity <div> ↓ Sensitivity <div> ↓ Sensitive </div> </div> </div> </div> LEVEL4 <div> </div> ★LEVEL3 <div> </div> LEVEL2 <div> </div> LEVEL1 <div> </div> OFF <div> </div> </div> | <ul style="list-style-type: none"> • Set the detection sensitivity for impact event recording. • The larger the sensitivity number, the less sensitive it becomes, and the smaller the number, the more sensitive it becomes. ※ Please set according to the vehicle characteristics and installation conditions of the main unit. |
| Audio recording | <div> ★ON <div> OFF </div> </div> | <ul style="list-style-type: none"> • Set audio recording ON/OFF. |
| Save (Always) | <div> ★ON <div> OFF </div> </div> <div> <Important> If you set it to OFF and the capacity limit is reached, continuous recording will stop. If continuous recording stops, impact and manual recording will also be impossible. </div> | <ul style="list-style-type: none"> • Sets file overwrite ON/OFF. • When set to ON, the oldest recording files will be overwritten when the allocated recording capacity is reached. • When set to OFF, files will not be overwritten even if the allocated recording capacity limit is reached. |
| Save (Impact / Manual) | <div> ★ON <div> OFF </div> </div> | |

Approximate recording time

The approximate recording time for each setting is as follows:

| SD Card capacity | File type | Image size (image quality: HIGH) | | |
|------------------|-------------------------|----------------------------------|------------|------------|
| | | 1080P FHD | 720P HD | VGA |
| 16GB | Continuous recording | 1hr 8min | 1hr 40min | 2hr 52min |
| | Impact・Manual recording | 17min | 25min | 43min |
| 32GB | Continuous recording | 2hr 16min | 3hr 24min | 5hr 44min |
| | Impact・Manual recording | 34min | 51min | 1hr 26min |
| 64GB | Continuous recording | 4hr 24min | 6hr 40min | 11hr 12min |
| | Impact・Manual recording | 1hr 6min | 1hr 40min | 2hr 48min |
| 128GB | Continuous recording | 8hr 52min | 13hr 20min | 22hr 28min |
| | Impact・Manual recording | 2hr 13min | 3hr 20min | 5hr 37min |
| 256GB | Continuous recording | 17hr 56min | 26hr 56min | 45hr 20min |
| | Impact・Manual recording | 4hr 29min | 6hr 44min | 11hr 20min |

| SD Card capacity | File type | Image size (image quality: MID) | | |
|------------------|-------------------------|---------------------------------|------------|------------|
| | | 1080P FHD | 720P HD | VGA |
| 16GB | Continuous recording | 1hr 24min | 2hr 4min | 3hr 28min |
| | Impact・Manual recording | 21min | 31min | 52min |
| 32GB | Continuous recording | 2hr 8min | 4hr 12min | 7hr 0min |
| | Impact・Manual recording | 42min | 1hr 3min | 1hr 45min |
| 64GB | Continuous recording | 5hr 28min | 8hr 12min | 13hr 40min |
| | Impact・Manual recording | 1hr 22min | 2hr 3min | 3hr 25min |
| 128GB | Continuous recording | 11hr 0min | 16hr 24min | 27hr 24min |
| | Impact・Manual recording | 2hr 45min | 4hr 6min | 6hr 51min |
| 256GB | Continuous recording | 22hr 16min | 33hr 8min | 55hr 16min |
| | Impact・Manual recording | 5hr 34min | 8hr 17min | 13hr 49min |

| SD Card capacity | File type | Image size (image quality: LOW) | | |
|------------------|-------------------------|---------------------------------|------------|------------|
| | | 1080P FHD | 720P HD | VGA |
| 16GB | Continuous recording | 1hr 48min | 2hr 44min | 4hr 28min |
| | Impact・Manual recording | 27min | 41min | 1hr 7min |
| 32GB | Continuous recording | 3hr 40min | 5hr 28min | 9hr 0min |
| | Impact・Manual recording | 55min | 1hr 22min | 2hr 15min |
| 64GB | Continuous recording | 7hr 12min | 10hr 40min | 17hr 32min |
| | Impact・Manual recording | 1hr 48min | 2hr 40min | 4hr 23min |
| 128GB | Continuous recording | 14hr 24min | 21hr 28min | 35hr 8min |
| | Impact・Manual recording | 3hr 36min | 5hr 22min | 8hr 47min |
| 256GB | Continuous recording | 29hr 4min | 43hr 20min | 70hr 52min |
| | Impact・Manual recording | 7hr 16min | 10hr 50min | 17hr 43min |

※ The times are approximate and are not a guarantee of recording time.

※ Recording time varies depending on factors such as the subject and the surrounding environment.



Main specifications

※ Specifications and appearance may be changed without notice for improvement purposes.

●Main unit

| | |
|----------------------------|--|
| • Outside dimension | 85mm(W) × 62mm(D) × 21mm(H) excluding protrusions |
| • Dust and water resistant | IP66・67 |
| • G-sensor | Yes |
| • microphone | Yes |
| • wireless LAN | 2.4GHz band IEEE802.11b/g/n |
| • Storage media | microSDHC card・microSDXC card |
| • Power source voltage | DC12V(for vehicles with battery only) |
| • current consumption | Recording: Approx. 0.35A / Dark current: Approx. 0.05mA (both at 12V battery voltage and room temperature) |
| • operating temperature | -20 ~ 70℃ |
| | -25 ~ 85℃ |

●Camera (front・rear)

| | |
|-------------------------------|---|
| • Outside dimension | Φ27mm(W) × 43mm(D) excluding protrusions |
| • Dust and water resistant | IP66・67 |
| • Image sensor | CMOS image sensor 2 megapixels |
| • Lens angle of view | Diagonal 162° (horizontal 137.4° vertical 73.6°) |
| • Frame rate | 27.5fps |
| • F-Score | 1.8 |
| • Minimum illumination | 1lux |
| • operating temperature range | -20 ~ 60℃ |
| • Storage temperature range | -25 ~ 85℃ |

●GPS

| | |
|-------------------------------|---|
| • Outside dimension | 33mm(W) × 43.7mm(D) × 13.5mm(H) excluding protrusions |
| • Dust and water resistant | IP66・67 |
| • Operating Temperature Range | -20 ~ 70℃ |
| • Storage temperature range | -25 ~ 85℃ |

●Switch

| | |
|-------------------------------|---|
| • Outside dimension | 23mm(W) × 35mm(D) × 9.5mm (H) excluding protrusions |
| • Dust and water resistant | IP66・67 |
| • Operating Temperature Range | -20 ~ 70℃ |
| • Storage temperature range | -25 ~ 85℃ |

●Power supply unit

| | |
|-------------------------------|--|
| • Outside dimension | 74mm(W) × 26mm(D) × 24mm (H) excluding protrusions |
| • Dust and water resistant | IP66・67 |
| • Operating Temperature Range | -20 ~ 70℃ |
| • Storage temperature range | -25 ~ 85℃ |

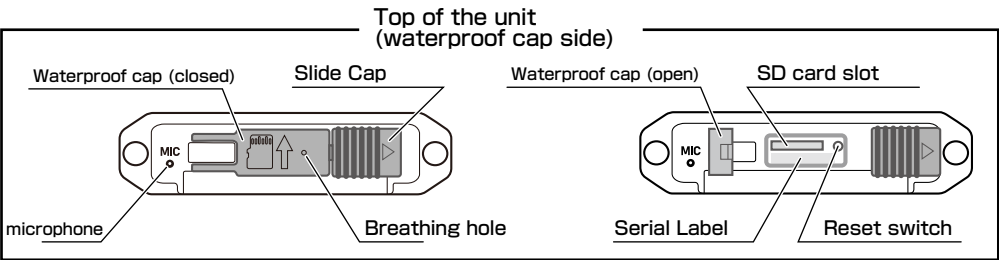
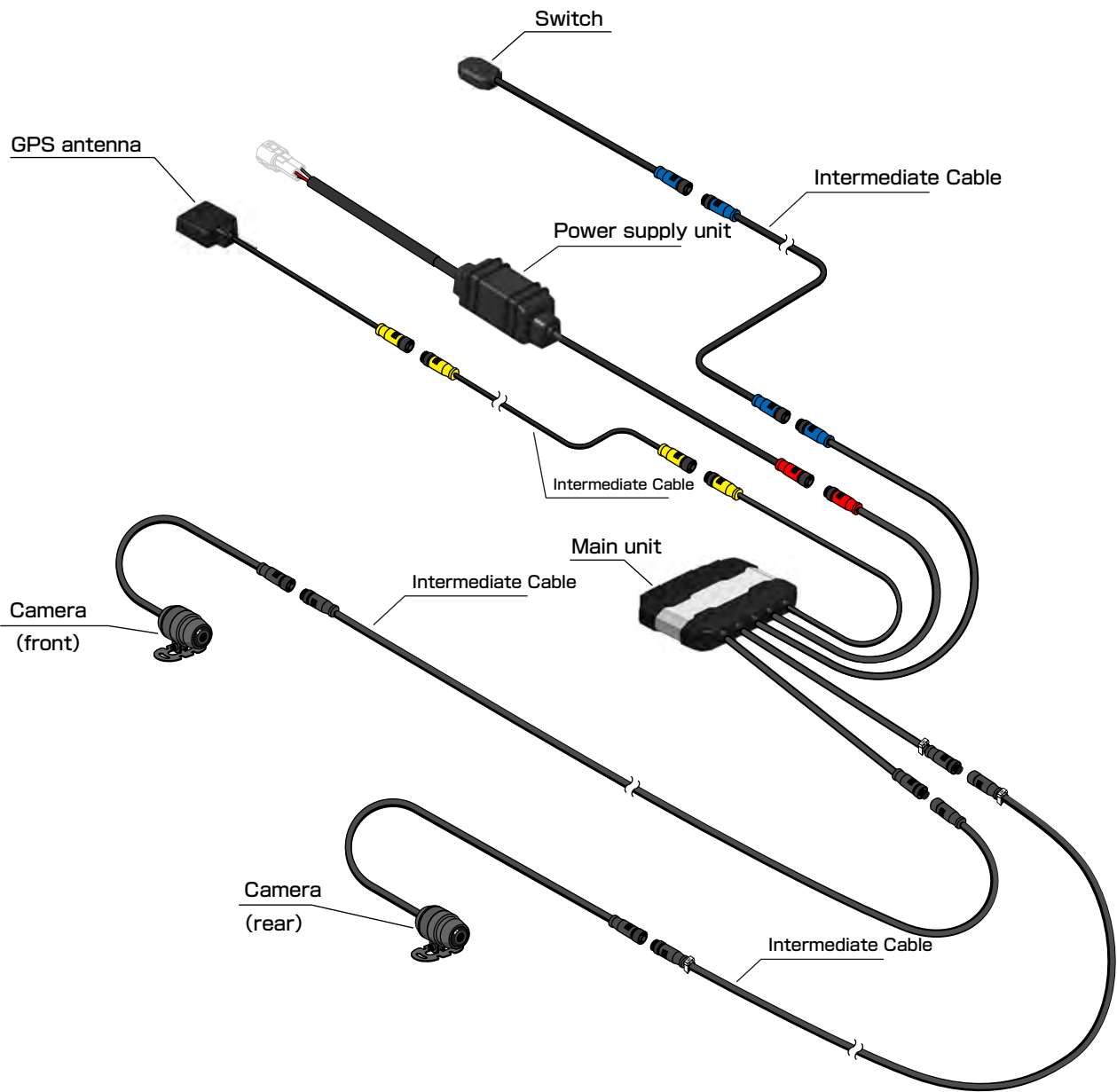


Main specifications (continued)

※ Specifications and appearance may be changed without notice for improvement purposes.

●System

- Image size 1920 × 1080P(1080P) / 1280 × 720P(720P) / 640 × 480(VGA)
- image quality HIGH / MID / LOW
- audio Mono 16kHz
ON/OFF selectable
- File Format MP4
- Codec Video H.264
audio AAC
- Basic file structure 30 seconds/file
- Recording method Continuous recording, event recording (impact recording/manual recording)
- Recorded data video, audio, date and time, acceleration, location information ※EDR-22G only
- WDR Yes (automatic)
- Color Correction Yes (automatic)

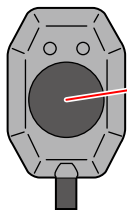


Initial settings

The video and audio recording functions are turned off when the unit is shipped. To start recording, please do the following:

While pressing the switch button, turn the ignition switch to ON

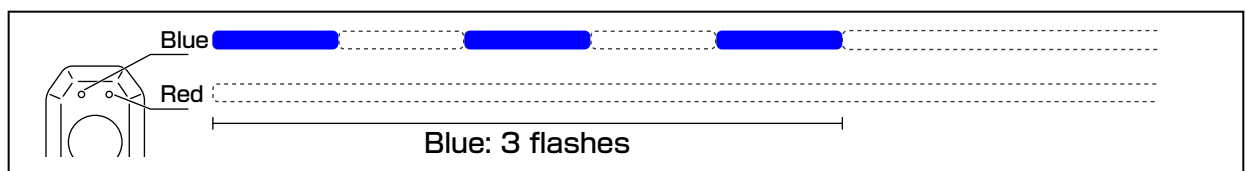
- ① Make sure the vehicle's ignition switch is turned OFF (main unit power OFF).
- ② While pressing the switch button, turn the vehicle's ignition switch to ON (power the unit ON).



While pressing, turn the vehicle ignition switch ON

- ③ After a few seconds, a system check will be performed on the device. During the system check, the indicator lights up in the following pattern.

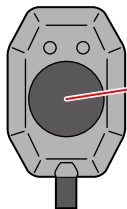
Indicator lighting pattern during system check



■ :On / □ :Off

※ It may take approximately 20 seconds from turning the ignition switch ON (main unit power ON) until the system check starts, for example, when you turn the ignition switch ON (main unit power ON) for the first time or if a period of time has passed since the last time the ignition switch was turned ON (main unit power ON).

- ④ Release the button once the system check begins.



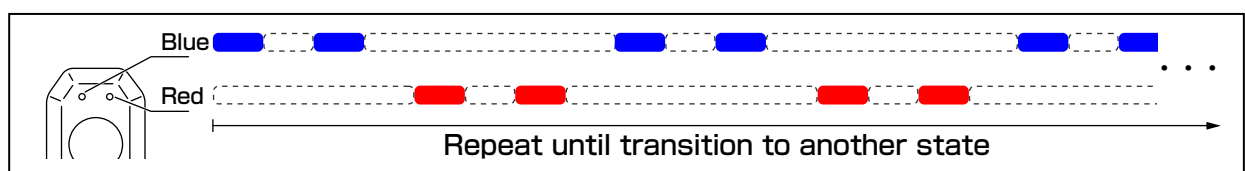
Release the button once the system check begins

※ If you release the button before the system check, the mode change operation may not be accepted.

※ If you continue to press the button after the system check, the system may switch to wireless LAN mode after continuous recording begins.

- ⑤ When the mode change command is accepted, the indicator will turn off, the camera will switch to normal mode, and continuous recording will begin. When continuous recording is in progress, the lighting pattern of the indicator will differ depending on whether the time is synchronized or asynchronous.

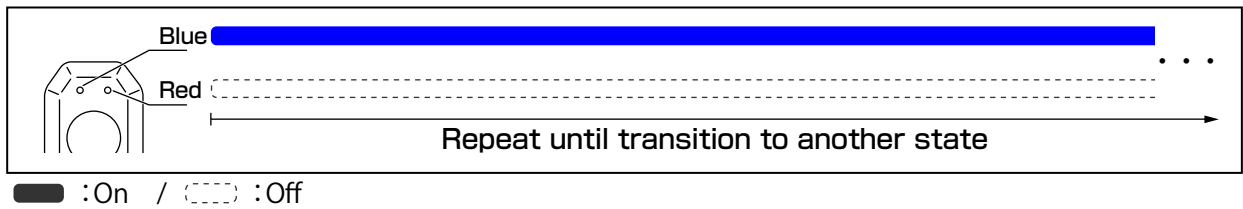
Continuous recording (time asynchronous state)



■ :On / □ :Off

■ Initial settings(continued)

● Continuous recording (time synchronized)



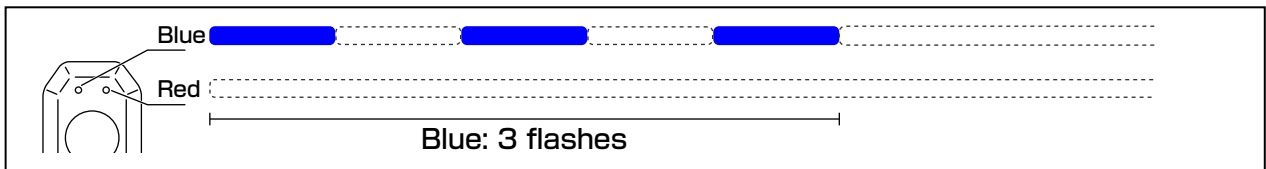
This completes the "Initial Setup".

How to use

Continuous Recording

- ① Turn the vehicle ignition switch ON (main unit power ON).
- ② After a few seconds, a system check will be performed on the device.
During the system check, the indicator lights up in the following pattern.

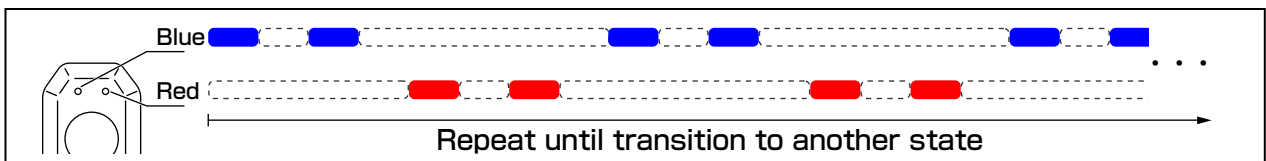
Indicator lighting pattern during system check



■ : On / □ : Off

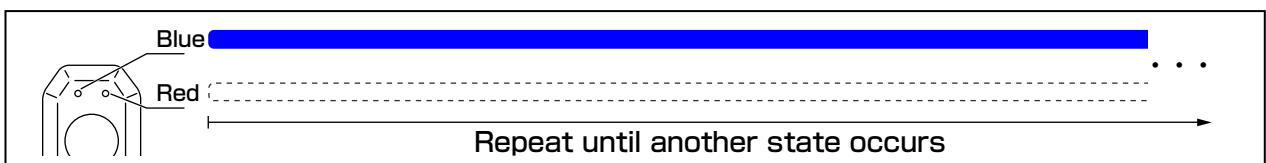
- ※ It may take approximately 20 seconds from turning the ignition switch ON (main unit power ON) until the system check starts, for example, when you turn the ignition switch ON (main unit power ON) for the first time or if a period of time has passed since the last time the ignition switch was turned ON (main unit power ON).
 - ※ If a system check reveals an abnormality, the indicator will show the abnormality on the unit. In this case, check the "Indicator Display List" (pages 21 to 23) and "Troubleshooting - Q&A -" (pages 40 to 41) and take measures to resolve the cause of the abnormality.
- ③ Once the system check is completed successfully, continuous recording will begin. When continuous recording is in progress, the lighting pattern of the indicator will differ depending on whether the time is synchronized or asynchronous.

Continuous recording (time asynchronous)



■ : On / □ : Off

Continuous recording (time synchronized)



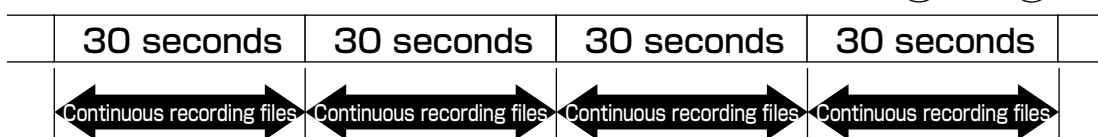
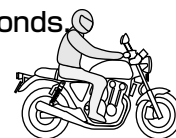
■ : On / □ : Off

- ※ If the time is out of sync, use the dedicated smartphone app "Moto DR" to synchronize the time after connecting to wireless LAN. For details on time synchronization, see "Synchronizing the Time" (page 34).
- ※ This product automatically synchronizes the time by receiving GPS signals. Depending on the signal reception conditions, it may not be possible to synchronize the time or it may take a long time to synchronize the time.

How to save continuous recordings

- ◆ Records 30 seconds per file and saves it as a continuous recording file.

- ※ If you switch to wireless LAN mode or turn off the power during recording, recording will stop at that point, and each file will be saved in less than 30 seconds.

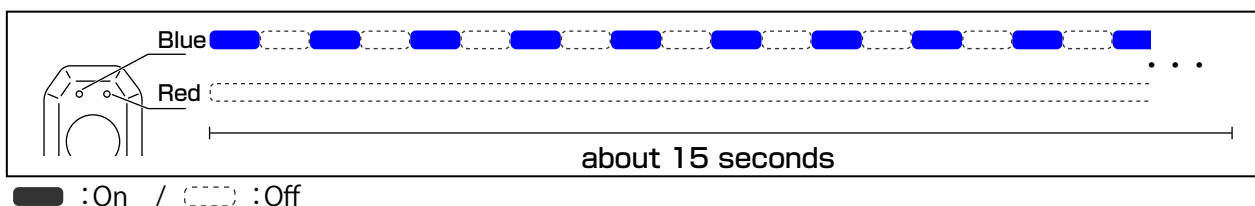


■ How to use (continued)

●Event recording (impact recording)

- ◆ When an impact is detected during continuous recording, this function saves the recording files before and after the impact detection as "impact recording files."
- ① Activated when an impact greater than the set value is detected during continuous recording.
During impact recording, the indicator will light up in the following pattern.

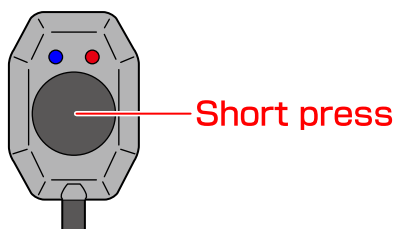
● Indicator lighting pattern during impact recording



- ※ When performing impact recording, impact recording and manual recording cannot be performed at the same time.
If an impact is detected during manual recording, it will be saved as an impact recording file.
- ② After about 15 seconds, impact recording will end and continuous recording will automatically resume.
 - ※ It automatically switches to continuous recording, so there is no need to operate the switch.
 - ※ When an event recording file is being overwritten, it will flash for up to approximately 20 seconds.

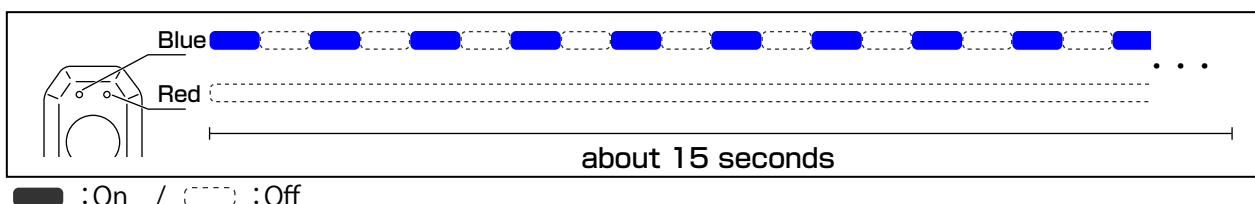
●Event recording (manual recording)

- ◆ This function saves the recording files before and after the manual recording operation as "manual recording files" when you perform manual recording during continuous recording.
- ① During continuous recording, briefly press the switch button.



- ② **Start manual recording.** During manual recording, the indicator lights up in the following pattern.

- Indicator lighting pattern during manual recording



- ※ Manual recording cannot be performed during impact recording.
If an impact is detected during manual recording, it will be saved as an impact recording file.
- ③ After about 15 seconds, manual recording will end and continuous recording will automatically resume.
 - ※ It automatically switches to continuous recording, so there is no need to operate the switch.
 - ※ When an event recording file is being overwritten, it will flash for up to approximately 20 seconds.

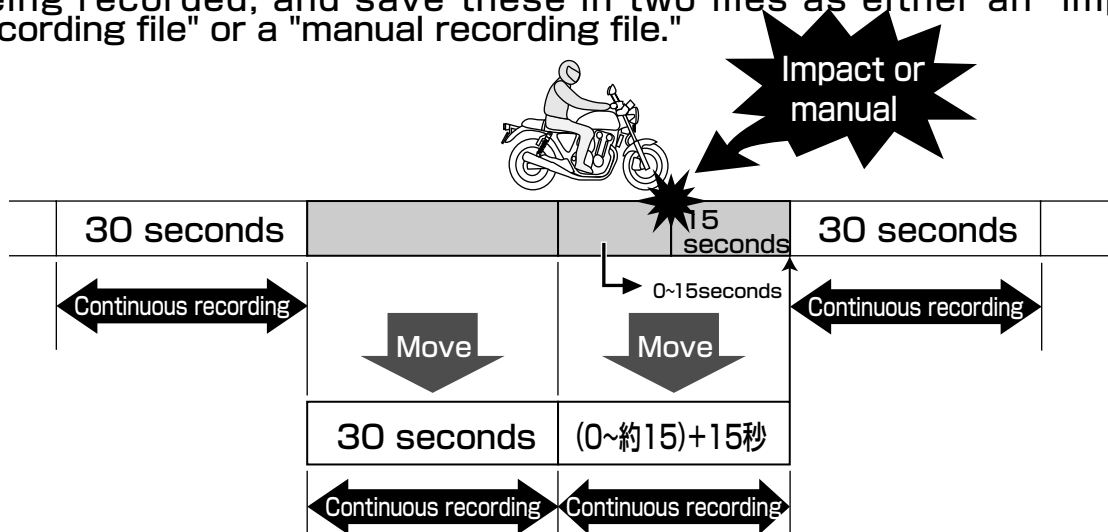
How to use (continued)

● How to save event recordings (impact recordings/manual recordings)

- ◆ For impact recording and manual recording, the way files are saved varies depending on when the event occurs.

CASE 1

If an event occurs within 15 seconds of the start of the file being recorded, the system will record the continuous recording file (30 seconds) just before the event occurred and the 15 seconds after the event occurred (15 seconds to approximately 30 seconds) in the file being recorded, and save these in two files as either an "impact recording file" or a "manual recording file."



※ If the power is turned off during impact recording or manual recording, recording will stop when the power is turned off, and the files recorded up until the power was turned off will be saved.

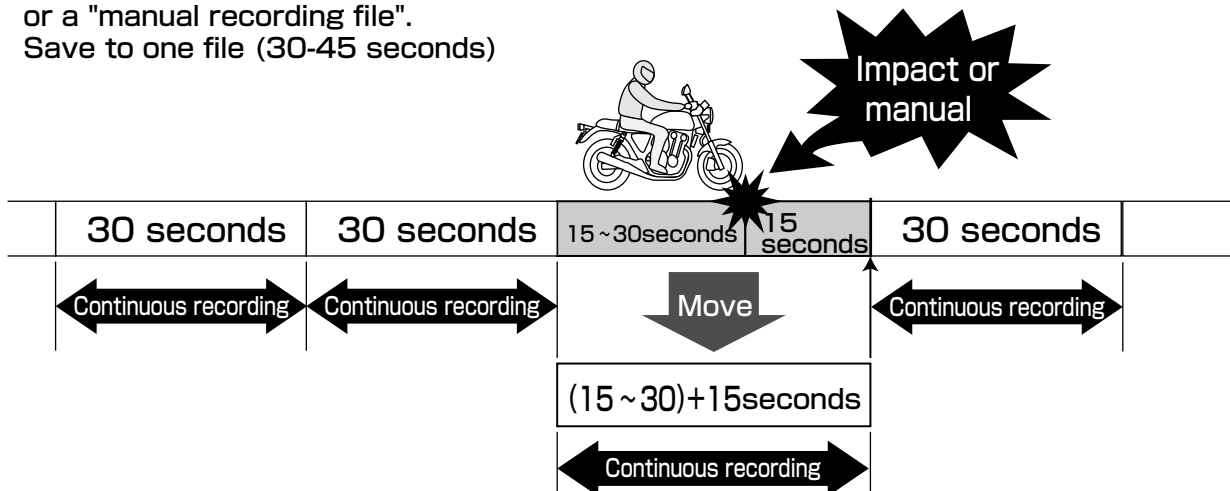
※ If an impact is detected during manual recording, it will be saved as an impact recording file.

CASE 2

If an event occurs 15 seconds or more into the beginning of a recording file, the file being recorded

The 15 seconds after the event occurs will be recorded as an "impact recording file" or a "manual recording file".

Save to one file (30-45 seconds)



※ If the power is turned off during impact recording or manual recording, recording will stop when the power is turned off, and the files recorded up until the power was turned off will be saved.

※ If an impact is detected during manual recording, it will be saved as an impact recording file.

■ How to use (continued)

● Video recording function stopped

To stop the video and audio recording function, remove the SD card from the unit.
For information on how to remove the SD card from the device, please see the following page.

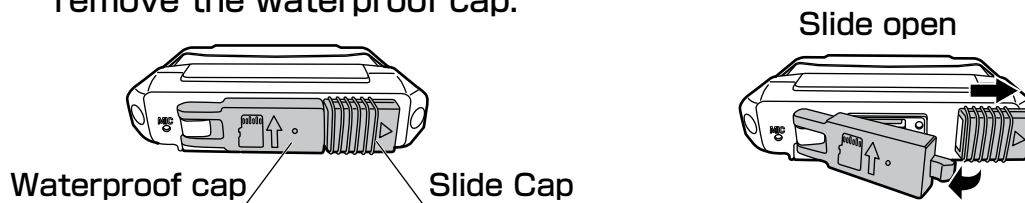
- "Inserting/Removing an SD Card" ... page 20

■ Inserting/Removing an SD Card

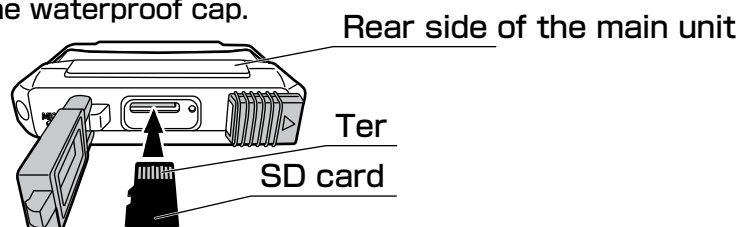
This section explains how to insert and remove an SD card. Check your vehicle's owner's manual for instructions on how to access the unit.

- ① Make sure the vehicle's ignition switch is turned OFF (main unit power is OFF).
 - ※ Do not insert or remove the SD card when the vehicle's ignition switch is ON (main unit power is ON). This may cause file corruption or malfunction.

- ② While holding the waterproof cap, slide the slide cap outward and remove the waterproof cap.



- ③ Insert the SD card so that the terminal side faces the rear of the unit until you hear a click.
 - ※ The direction in which the SD card should be inserted is indicated on the surface of the waterproof cap.

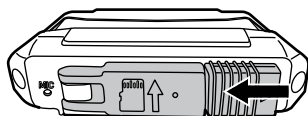


- ※ When removing the SD card, gently push the SD card in until you hear a click, then slowly release it to remove the SD card. Be careful not to release your finger too quickly after pressing the SD card in, as it may pop out.

- ④ Close the waterproof cap.

- ⑤ While holding the waterproof cap, slide the slide cap inward to lock it in place.
 - ※ Slide the slide cap until you hear a click. This may cause water to enter the device and cause malfunctions.

Slide to lock

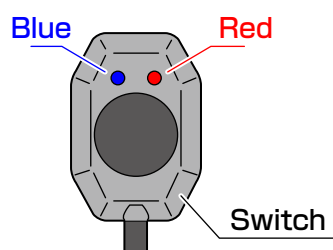


- ※ Do not secure the unit with foreign objects (sand, hair, etc.) caught between the unit and the waterproof cap. This may cause water to enter the device and cause malfunctions.
- ※ Do not insert any rod-shaped objects into the ventilation hole on the waterproof cap or block the ventilation hole. This may cause water intrusion and malfunction.















This completes the explanation of "Inserting/Removing an SD Card."

Indicator display list


















This section explains the indicators and what they show.



●Status display when recording is stopped

| Indicator display | Status | Remarks |
|---|---|---|
| Blue    Red Cycle Blue flashing every 0.5 seconds Time Approximately 3 seconds | <ul style="list-style-type: none"> System check in progress | <ul style="list-style-type: none"> A system check will be performed after the power is turned on. A system check will be performed after turning off the wireless LAN mode. |
| Blue     Red Cycle Blue flashing at 0.2 second intervals, off for 1 second Time Repeat until transition to another state | <ul style="list-style-type: none"> Waiting for wireless LAN mode connection | <ul style="list-style-type: none"> Waiting for a Wi-Fi connection from your smartphone. |
| Blue     Red    Cycle .5 seconds on, 0.2 seconds off, flashing red and blue alternately Time Repeat until transition to another state | <ul style="list-style-type: none"> Connected in wireless LAN mode | <ul style="list-style-type: none"> The smartphone is connected to the wireless LAN. |
| Blue Red Cycle Periodic red and blue off Time — | <ul style="list-style-type: none"> Power OFF SD card not detected during system check When switching modes (such as when switching from wireless LAN mode to continuous recording) | <ul style="list-style-type: none"> Recording has stopped. The light may go off for 5 to 6 seconds. |




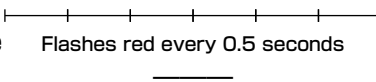




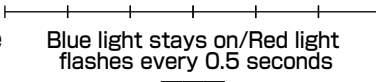




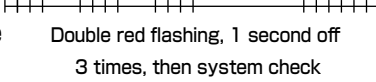










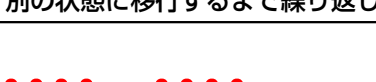


















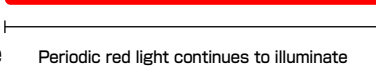



●Recording status display list

| Indicator display | Status | Remarks |
|--|---|--|
| Blue  Red Cycle Blue Continuation Time Repeat until transition to another state | <ul style="list-style-type: none"> Continuous recording Power supplyOFF Write the recording file laterLoading Operation | <ul style="list-style-type: none"> Recording is ongoing. Power OFF Then it lights up for a whileThe lights will turn off. |
| Blue     Red     Cycle 0.2 second cycle, red and blue flashing alternately Time Continue until time is synchronized | <ul style="list-style-type: none"> Continuous recording Time out of sync | <ul style="list-style-type: none"> The time is different from the actual time. Time synchronization is not being performed. |
| Blue         Red Cycle Blue flashing every 0.2 seconds Time Repeat for up to 20 seconds | <ul style="list-style-type: none"> Manual recording in progress Impact recording | <ul style="list-style-type: none"> If you turn the power off during manual recording or impact recording, the light will turn blue and then go off. |

Indicator display list (continued)





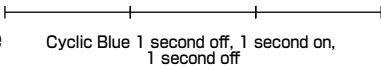
● Status display when an abnormality occurs

※ If an abnormality occurs, refer to "Troubleshooting - Q&A -" (pages 40 to 41) for the corrective action to be taken.

| Indicator display | Status | Remarks |
|--|---|---|
| <p>Blue</p> <p>Red   </p> <p>Cycle Time  Flashes red every 0.5 seconds</p> | <ul style="list-style-type: none"> • SD card error • Continuous recording capacity is full ※ When the overwrite save (always) setting is OFF • The event recording (impact recording, manual recording) capacity is full and all event recording files are protected. ※ When the overwrite save (shock, manual) setting is ON • When the remaining capacity of the SD card differs from the actual recording time. (For example, if a file other than EDR is written to the SD card.) | <ul style="list-style-type: none"> • Not all recording operations are possible. • You can switch to wireless LAN mode. • Files are not saved when an event recording (impact recording, manual recording) occurs. • You can switch to wireless LAN mode. • The available recording time will be reduced. • You can switch to wireless LAN mode. |
| <p>Blue </p> <p>Red   </p> <p>Cycle Time  Blue light stays on/Red light flashes every 0.5 seconds</p> | <ul style="list-style-type: none"> • Event recording (impact recording, manual recording) capacity is full ※ When the overwrite save (shock, manual) setting is OFF | <ul style="list-style-type: none"> • Continuous recording means continuous recording. • You can switch to wireless LAN mode. |
| <p>Blue </p> <p>Red   </p> <p>Cycle Time  Double red flashing, 1 second off 3 times, then system check</p> | <ul style="list-style-type: none"> • Front camera error | <ul style="list-style-type: none"> • Not all recording operations are possible. • Cannot switch to wireless LAN mode. |
| <p>Blue </p> <p>Red         </p> <p>Cycle Time  赤3連点滅、1秒消灯 別の状態に移行するまで繰り返し</p> | <ul style="list-style-type: none"> • Rear camera error | <ul style="list-style-type: none"> • Record using the front camera only. • You can switch to wireless LAN mode. |
| <p>Blue </p> <p>Red      </p> <p>Cycle Time  4 red flashes, 1 second off, repeats until transition to another state</p> | <ul style="list-style-type: none"> • GPS anomaly | <ul style="list-style-type: none"> • Continue recording without recording GPS location information. • You can switch to wireless LAN mode. |
| <p>Blue </p> <p>Red         </p> <p>Cycle Time  Repeats 3 red flashes, 1 second off twice, 2 red flashes, 1 second off twice, then system check</p> | <ul style="list-style-type: none"> • Front camera, rear camera error | <ul style="list-style-type: none"> • Not all recording operations are possible. • Cannot switch to wireless LAN mode. |
| <p>Blue </p> <p>Red </p> <p>Cycle Time  Periodic red light continues to illuminate</p> | <ul style="list-style-type: none"> • Main unit abnormality | <ul style="list-style-type: none"> • You cannot use all the functions. |

Indicator display list (Continued)

●Other status indications

| Indicator display | situation | remarks |
|--|--|--|
| <p>Blue </p> <p>Red </p> <p>Cycle Time  Blue and red light on simultaneously for 1 second Time ※See remarks</p> | <p>• Wireless LAN connection and password initialization completed</p> | <p>• After the password reset message appears, the display will return to the screen before the reset operation.</p> |
| <p>Blue </p> <p>Red</p> <p>Cycle Time  Cyclic Blue 1 second off, 1 second on, 1 second off</p> | <p>• GPS positioning completed</p> | <p>• Displayed only once after power is turned on.</p> |

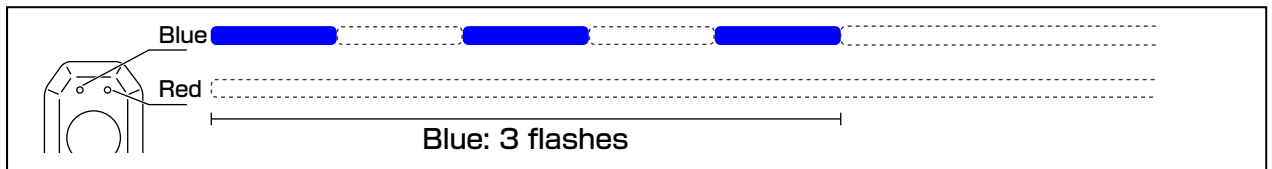
Connecting your smartphone and EDR unit via wireless LAN (Android)

- Please install the EDR dedicated app "Moto DR" on your smartphone in advance.
- For information on how to operate your smartphone, please refer to the instruction manual for your smartphone.
- The smartphone screen displays in this instruction manual may differ depending on the model you are using.

1. Set the EDR unit to wireless LAN mode

- ① Turn the vehicle ignition switch ON (main unit power ON).
- ② After a few seconds, a system check of the EDR unit will be performed.

●Indicator lighting pattern during system check

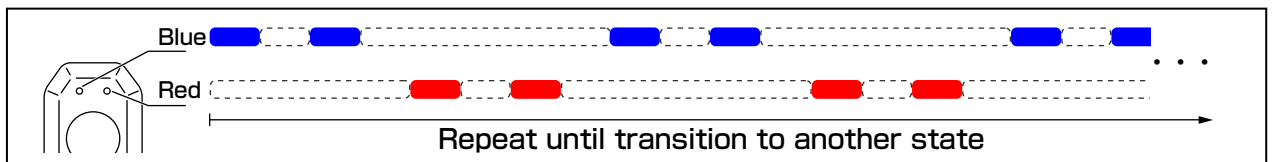


■ : On / □ : Off

※ It may take approximately 20 seconds from turning the ignition switch ON (main unit power ON) until the system check starts, for example, when you turn the ignition switch ON (main unit power ON) for the first time or if a period of time has passed since the last time the ignition switch was turned ON (main unit power ON).

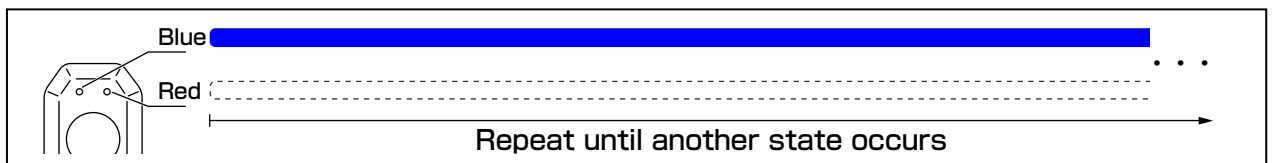
- ③ Once the system check is completed successfully, continuous recording will begin. When continuous recording is in progress, the lighting pattern of the indicator will differ depending on whether the time is synchronized or asynchronous.

●Continuous recording (time asynchronous)



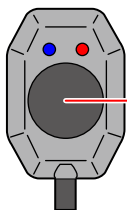
■ : On / □ : Off

●Continuous recording (time synchronized)



■ : On / □ : Off

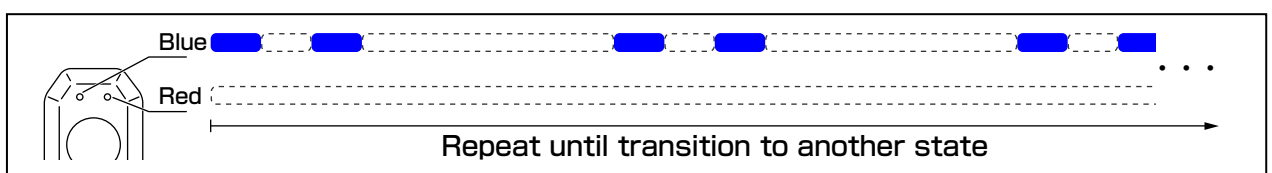
- ④ Press and hold the switch button (for more than 3 seconds) to switch to wireless LAN mode.



Press and hold (3 seconds or more)

※ If the button is pressed for a short time, manual recording (blue flashing) will begin. Once the camera is in continuous recording mode, press and hold the button again (for 3 seconds or more).

●Indicator lighting pattern in Wireless LAN mode (waiting for connection)



■ : On / □ : Off

Note • WirelessLAN During the mode, stop recording.

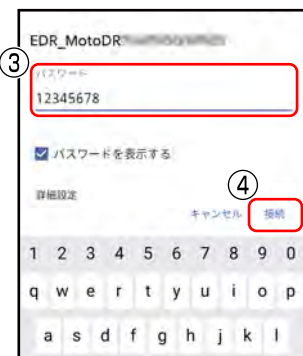
2. Connect your smartphone and EDR unit via wireless LAN



- ① Operate your smartphone and turn on "Wireless LAN Connection (Wi-Fi)" from the settings.

supplement

- For information on how to operate your smartphone, please refer to the instruction manual for your smartphone.



- ② Select "EDR_MotoDRxxxxxxx" from the list of connection destinations (SSID, access points) displayed on your smartphone.

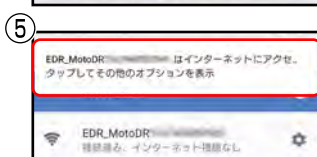
※ "EDR_MotoDRxxxxxxx" is an alphanumeric character unique to the EDR unit.

- ③ Enter your password.

supplement

- Password Initial Settings
「12345678」

- ④ Tap "Connect".



- ⑤ When the pop-up shown on the left appears on your smartphone screen, tap it.

supplement

- The pop-up display method and content may vary depending on the smartphone you are using.

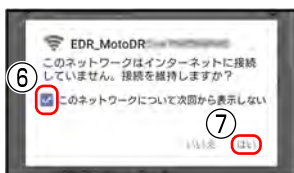
Note

- Do not operate your smartphone until the pop-up appears. The popup may disappear.
- If the pop-up disappears, EDR Wireless connection to the main unit LAN Delete the connection information. Please start over from step ①.

If you are unable to connect to your smartphone (wireless LAN connection), please visit the following URL or Please check the QR code for instructions on how to proceed.

<https://www.mskw.co.jp/motorcycle/edr/support/>





⑥ Check "Don't show this again."

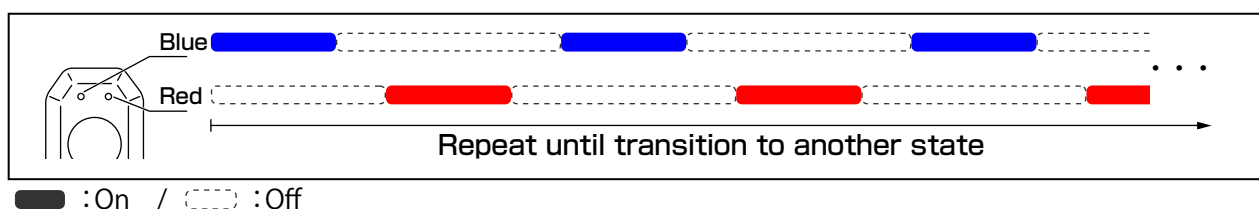
⑦ Tap "Yes" .

supplement

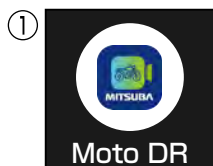
- If you check "Don't show this again" and tap "Yes", you can skip steps ⑤ to ⑦ from the next time onwards.
- The contents of pop-ups and dialogs displayed may vary depending on the model. In this case, please configure it to maintain the connection with EDR.

⑧ When the EDR unit and wireless LAN are connected, the indicators will light up in the following pattern.

●Wireless LAN mode (connected) indicator lighting pattern



3. Launch the dedicated app "Moto DR"



① Operate your smartphone and launch "Moto DR".

※ Icons may vary depending on the device.



② A confirmation screen for "Location access" will appear, so tap "Only while using the app" to allow access to your location.

Note

- SmartphoneWifi The permissions required to connect. "AllowIf you tap "No",MotoCannot connect to "DR"may result in poor connection or an unstable connection.

③ A confirmation screen for "Access to media files (photos, videos, music, audio)" will be displayed. Tap "Allow" to allow access to photos, videos, music, and audio.

supplement

- On your smartphoneOS Version13 In the following casesIf you are using a media file, this screen will not be displayed.
(photograph,Video, music, audio)Access is automatically granted.

Note

- This permission is required to save files on the smartphone and to play recorded files saved on the smartphone.
- If you tap "Don't allow",File saving operations and recordings saved on the smartphoneThe file cannot be played. In addition, during use"MotoDR"may be forced to terminate.





④ The "EDR Main Unit Wireless LAN Connection Guide" will appear on your smartphone screen. Tap "Skip" to close it.

- The connection guide you see is the same as the one explained here. So I'm going to skip this and close it.
- Display "EDR Main Unit Wireless LAN Connection Guide" the next time you start the software if you do not want this to happen, select "Do not display at next startup." I'll check.
- The "EDR Main Unit Wireless LAN Connection Guide" can be viewed from "User Guide" on the app's top screen.



⑤ Tap "Playback" or "Settings" on the TOP screen.

- After selecting "Playback", if you tap a tab such as "Always", "Impact" or "Manual", the app will display "Connecting" in the center of the screen. Once the connection is complete, the app will begin loading the recorded files and the message "Loading data" will be displayed in the center of the screen. Once loading is complete, a list of recording folders will be displayed.
- When you select this setting, the word "Connecting" will be displayed in the center of the app screen. Once the connection is complete, the message "Connection complete" will appear at the bottom of the app screen and the settings screen will be displayed.

supplement

- If the message "Please connect to the EDR unit" appears on the app screen, "Smartphone and EDR unit wireless LAN Connect" (32 page) Please start the operation again.
- If the app screen displays "No data", SD There is no data on the card.
- The time it takes to load recording files depends on the number of recording files and communication environment.

This completes the explanation of "Connecting your smartphone and EDR unit via wireless LAN (Android)."

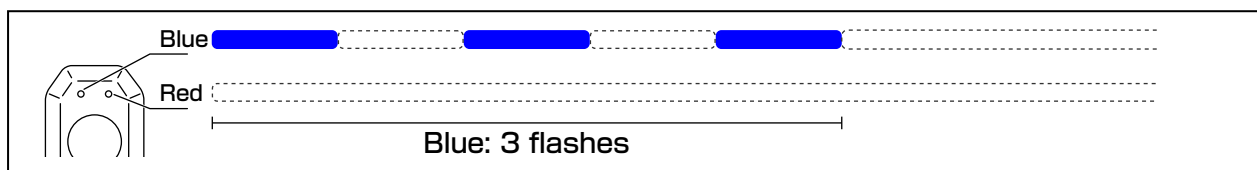
Connecting your smartphone and EDR unit via wireless LAN (iOS)

- Please install the EDR dedicated app "Moto DR" on your smartphone in advance.
- For information on how to operate your smartphone, please refer to the instruction manual for your smartphone.
- The smartphone screen displays in this instruction manual may differ depending on the model you are using.

1. Set the EDR unit to wireless LAN mode

- ① Turn the vehicle ignition switch ON (main unit power ON).
- ② After a few seconds, a system check of the EDR unit will be performed.

●Indicator lighting pattern during system check

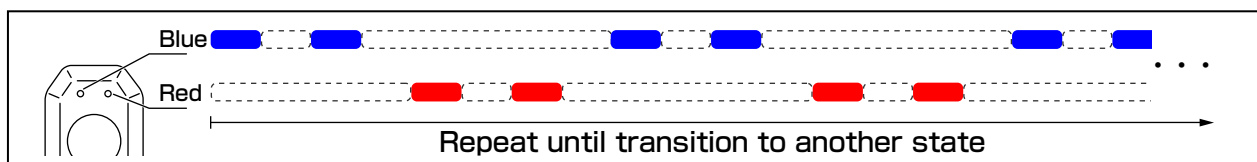


■ :On / □ :Off

※ It may take approximately 20 seconds from turning the ignition switch ON (main unit power ON) until the system check starts, for example, when you turn the ignition switch ON (main unit power ON) for the first time or if a period of time has passed since the last time the ignition switch was turned ON (main unit power ON).

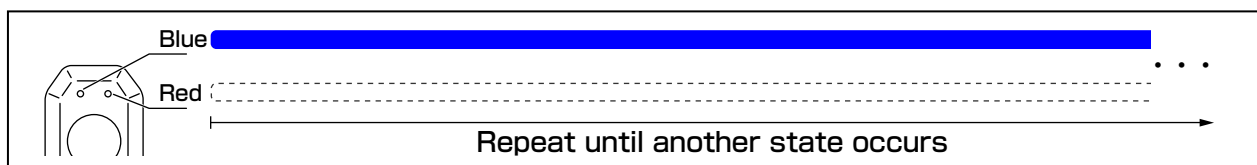
- ③ Once the system check is completed successfully, continuous recording will begin. When continuous recording is in progress, the lighting pattern of the indicator will differ depending on whether the time is synchronized or asynchronous.

●Continuous recording (time asynchronous)



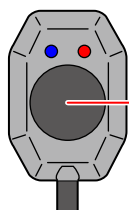
■ :On / □ :Off

●Continuous recording (time synchronized)



■ :On / □ :Off

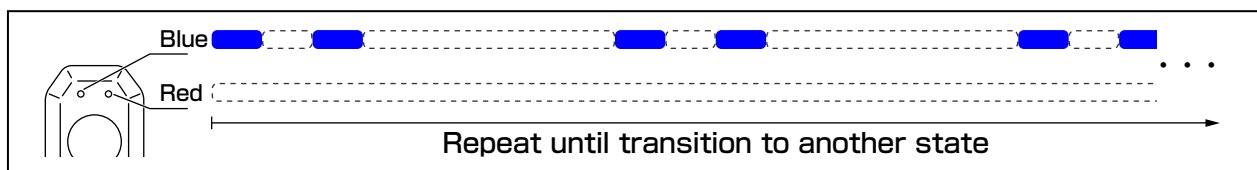
- ④ Press and hold the switch button (for more than 3 seconds) to switch to wireless LAN mode.



Press and hold (3 seconds or more)

※ If the button is pressed for a short time, manual recording (blue flashing) will begin. Once the camera is in continuous recording mode, press and hold the button again (for 3 seconds or more).

●Indicator lighting pattern in Wireless LAN mode (waiting for connection)



■ :On / □ :Off

Note • WirelessLAN During the mode, stop recording.

2. Connect your smartphone and EDR unit via wireless LAN



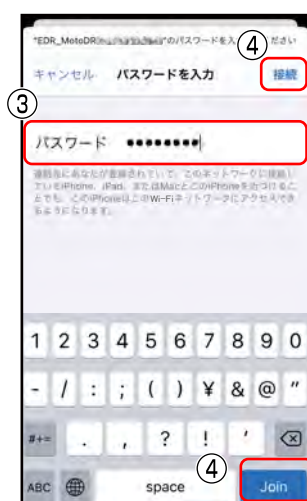
- ① Operate your smartphone and turn on "Wireless LAN Connection (Wi-Fi)" from the settings.

supplement

• For information on how to operate your smartphone, please refer to the instruction manual for your smartphone.

- ② Select "EDR_MotoDRxxxxxxx" from the list of connection destinations (SSID, access points) displayed on your smartphone.

※ "EDR_MotoDRxxxxxxx" is an alphanumeric character unique to the EDR unit.



- ③ Enter your password.

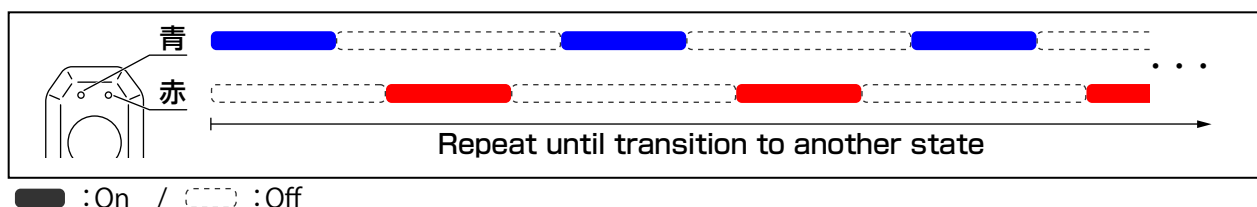
supplement

• Password Initial Settings
「1 2 3 4 5 6 7 8」

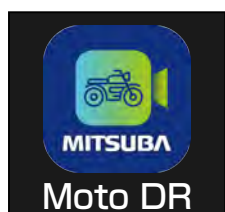
- ④ Tap "Connect" at the top right of the screen or "Join" at the bottom right of the screen.

- ⑤ When the EDR unit and wireless LAN are connected, the indicators will light up in the following pattern.

● Wireless LAN mode (connected) indicator lighting pattern



3. Launch the dedicated app "Moto DR"



- ① Operate your smartphone and launch "Moto DR".



- ② Tap "Playback" or "Settings" on the TOP screen.
- After selecting "Playback", if you tap a tab such as "Always", "Impact", or "Manual", the app will display "Connecting" in the center of the screen. Once the connection is complete, the app will begin loading the recorded files and the message "Loading data" will be displayed in the center of the screen. Once loading is complete, a list of recording folders will be displayed.
 - When you select this setting, "Connecting" will be displayed in the center of the app screen. Once the connection is complete, the message "Connection complete" will appear at the bottom of the app screen and the settings screen will be displayed.

supplement

- If the message "Please connect to the EDR unit" appears on the app screen,"Smartphone andEDR unit wireless LANConnect"(36 page)Please start the operation again.
- If the app screen displays "No data",SD There is no data on the card.
- The time it takes to load recorded files depends on the number of recorded files.and communication environment.
- " in the center of the app screen"MotoDR"is the local network"Search for and connect to devices on your network" dialogue box will appear.If a message appears,, "Allow" or "OKTapfrom"EDR Tap "Connect to device".



Smartphones and EDR Wirelessly connect the deviceLAN If you are unable to connect, please change your smartphone settings.After turning on airplane modeWifi ofON And,EDR Main unit and wirelessLAN Please connect. wirelessLANIf you have ended the connection, turn off airplane mode.Please turn it OFF.

This concludes the explanation of "Connecting your smartphone and EDR unit via wireless LAN (iOS)."

■ Formatting the SD card

This section explains how to format the SD card inserted in the EDR unit.
The explanation will be given assuming that the SD card is inserted into the EDR unit and the smartphone and EDR unit are connected via wireless LAN.
For information on connecting your smartphone to the EDR unit via wireless LAN, please see the following page.

- "Connecting your smartphone and EDR unit via wireless LAN (Android)"... pages 24 to 27
- "Connecting your smartphone and EDR unit via wireless LAN (iOS)"... pages 28 to 30

1. Display the format menu

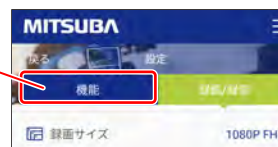


① Tap "Settings" from the TOP screen.

補足

- If the setting screen is the "Recording" screen, select the "Function" tab. Please tap.

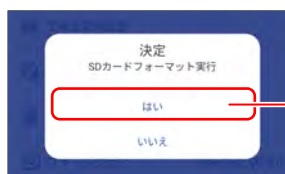
Tap



2. Format the SD card



① Tap "SD Format".



② Tap "Yes" on the SD card format execution screen.

supplement

- To cancel the format, tap "No".
- Once the SD card formatting is complete, "Format successful" will be displayed at the bottom of the screen.

Note

- When you format the SD card, all files recorded on it will be erased. Please back up any important files before formatting.

This completes the explanation of "formatting an SD card."

■ Check the camera footage

This section explains how to check the footage captured by the camera. The explanation will be given assuming that the SD card is inserted into the EDR unit and the smartphone and EDR unit are connected via wireless LAN. For information on connecting your smartphone to the EDR unit via wireless LAN, please see the following page.

- "Connecting your smartphone and EDR unit via wireless LAN (Android)"... pages 24 to 27
- "Connecting your smartphone and EDR unit via wireless LAN (iOS)"... pages 28 to 30

1. Display the shooting angle confirmation

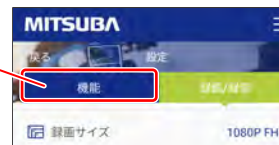


① Tap "Settings" from the TOP screen.

supplement

- If the settings screen is displayed as the "Video/Audio Recording" screen, tap the "Functions" tab.

Tap



② Tap "Check shooting angle."

- The image captured by the camera will be displayed.

2. Check the footage from the camera

① Turn your smartphone sideways.



② If the camera angle needs to be adjusted, please consult an authorized Kawasaki dealer.

■ Check the camera footage (continued)

supplement

- The "Rear" button is displayed at the bottom of the screen."rear" or "Front" to view the camera image.(rear/ Front Desk)You can switch between the following.



- The buttons displayed on the screen are "X" "rear" Tap a screen other than "Front" display/You can switch it off or on.
- The image displayed on your smartphone may be delayed due to factors such as communication conditions.there is.

3. Ending the display of the camera's footage

- ① Tap the "X" button in the upper left corner of the screen to close the screen.



This concludes the explanation of "Checking the footage captured by the camera."

■ Synchronize time

This article explains how to synchronize the time on your EDR unit with the time on your smartphone.

The explanation will be given assuming that the SD card is inserted into the EDR unit and the smartphone and EDR unit are connected via wireless LAN.

For information on connecting your smartphone to the EDR unit via wireless LAN, please see the following page.

- "Connecting your smartphone and EDR unit via wireless LAN (Android)"... pages 24 to 27
- "Connecting your smartphone and EDR unit via wireless LAN (iOS)"... pages 28 to 30

1. Display the time synchronization menu

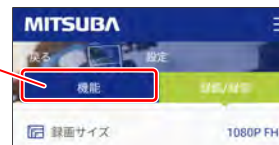


① Tap "Settings" from the TOP screen.

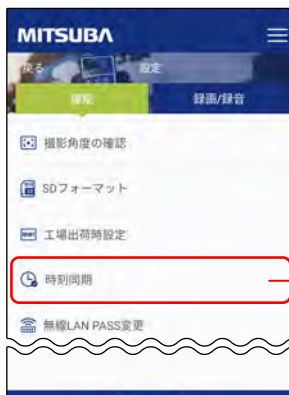
supplement

- If the setting screen is the "Recording" screen, select the "Function" tab. Please tap.

Tap



2. Perform time



① Tap "Sync time" to perform time synchronization.

- When the time on your device is synchronized with your smartphone,
The message "Setup complete" will be displayed.

supplement

- The built-in clock, errors will occur. Therefore, the actual time and the recorded time may differ. There may be a misalignment. To prevent time discrepancies, use the dedicated smartphone app. Regularly (1 Once a month) It is recommended that you synchronize the time.
- EDR-22G After recording starts, Time is automatically synchronized by receiving GPS signals. However, there may be a discrepancy in the time recorded in the file when recording begins.
If it has been a while since your last ride, please synchronize the time using the dedicated smartphone app before riding.
- When you replace the battery or disconnect the battery terminal, the initial time (2022 year 1 month 1 day) ToIt will be reset. Please synchronize the time again.

This concludes the explanation of "time synchronization."

Change your wireless LAN password

This section explains how to change the password required to connect your smartphone and EDR unit via wireless LAN.

The explanation will be given assuming that the SD card is inserted into the EDR unit and the smartphone and EDR unit are connected via wireless LAN.

- "Connecting your smartphone and EDR unit via wireless LAN (Android)"... pages 24 to 27
- "Connecting your smartphone and EDR unit via wireless LAN (iOS)"... pages 28 to 30

1. Display the menu for changing the wireless LAN password



① Tap "Settings" from the TOP screen.

supplement

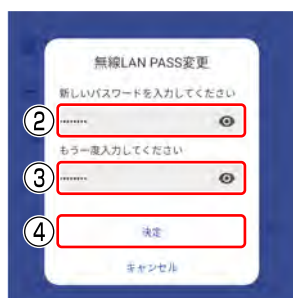
- If the settings screen is displayed as the "Video/Audio Recording" screen, tap the "Functions" tab.



2. Change your wireless LAN password



- ① Tap "Change Wireless LAN PASS" from the Function tab.
- The Wireless LAN PASS change screen will be displayed.



- ② Enter a new password (8 or more alphanumeric characters) in the "Please enter a new password" field.
- ③ In the "Please enter again" field, enter the same password you entered in ② again.
- ④ Tap "OK" to change to your new password.
- Once the wireless LAN password change has finished, the messages "Settings complete" and "Connection to MITSUBA EDR has been disconnected" will be displayed at the bottom of the screen.

supplement

- To cancel the password change, "Cancel" Tap.

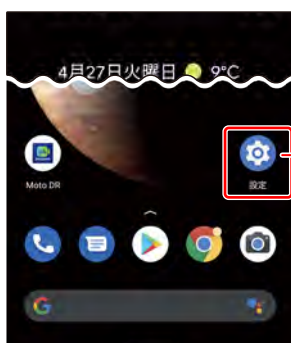
Change your wireless LAN password (Continued)

3-1. Resetting the EDR connection information on your smartphone (Android)

Note

- If you have changed the wireless LAN password, the wireless LAN password saved on your smartphone will be deleted. You need to delete the connection information once. If you do not delete the connection information, EDR Main unit and wirelessLAN You will not be able to connect. Be sure to delete the connection information.

※ Item names may vary depending on the model of your smartphone.



① Tap the settings icon on your smartphone.



② When your smartphone's settings screen opens, tap on a network connection item such as "Network and Internet" or "Connections."



③ When the network connection item opens, make sure that wireless LAN (Wi-Fi) is turned on.

※ If wireless LAN (Wi-Fi) is turned OFF, turn it ON.



④ From the list of destinations (SSID, access points) displayed on the screen, find "EDR_MotoDRxxxxxxx" and press and hold the destination name until the selection screen appears.

※ "xxxxx..." is an alphanumeric character unique to the EDR unit.

Change your wireless LAN password (Continued)



⑤ When the "Connect / Delete / Change" selection screen appears, tap "Delete."

- The wireless LAN connection information for the EDR unit that was saved on your smartphone has now been deleted.

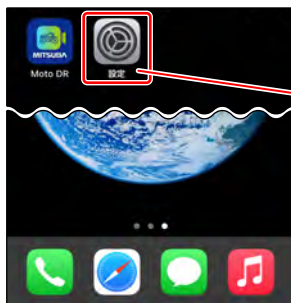
※ When connecting to the EDR unit via wireless LAN after changing the password, enter the changed password to connect.

3-2. Reconfigure your smartphone's EDR connection information (iOS)

Note

- If you have changed the wireless LAN password, the wireless LAN password saved on your smartphone will be deleted. You need to delete the connection information once. If you do not delete the connection information, EDR main unit and wireless LAN You will not be able to connect. Be sure to delete the connection information.

※ Item names may vary depending on the model of your smartphone.

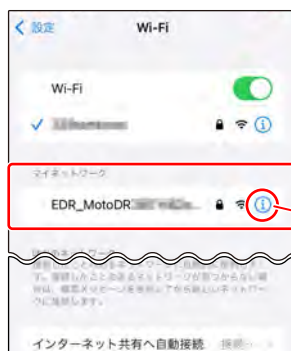


① Tap the settings icon on your smartphone.



② Once the settings are open, make sure that wireless LAN (Wi-Fi) is ON.

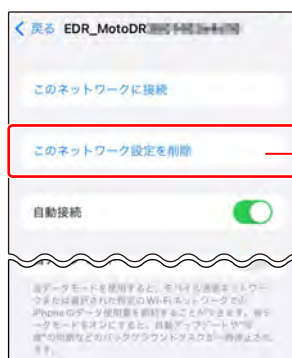
※ If wireless LAN (Wi-Fi) is turned OFF, turn it ON.



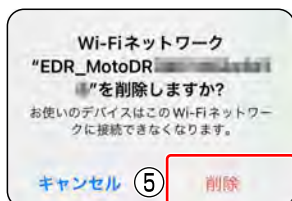
③ List of connection destinations (SSID, access points) displayed on the screen, search for "EDR_MotoDRxxxxxxxxxxxx" ⓘ icon and tap it.

※ "xxxx..." is an alphanumeric character unique to the EDR unit.

Change your wireless LAN password (Continued)



- ④ Tap "Delete this network setting" from the items displayed on the screen.



- ⑤ When a dialog box asking "Do you want to delete Wi-Fi network "EDR_Moto DRxxxxxxxxxxxx" ?" appears in the center of the app screen, tap "Delete".

※ "xxxx..." is an alphanumeric character unique to the EDR unit.

- The wireless LAN connection information for the EDR unit that was saved on your smartphone has now been deleted.

※ When connecting to the EDR unit via wireless LAN after changing the password, enter the changed password to connect.

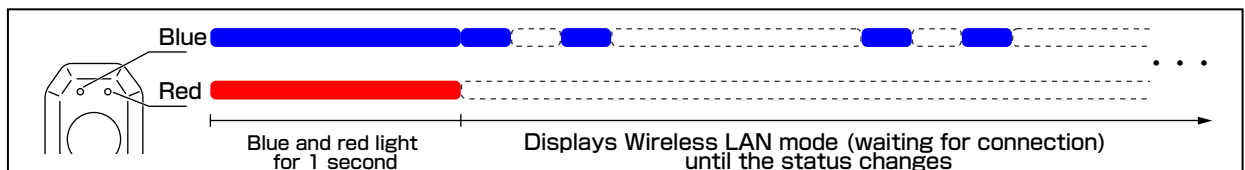
This completes the explanation of "Changing your wireless LAN password."

■ Initialize the wireless LAN password

This section describes how to reset the wireless LAN password. Please use this if you forget your password.

1. Turn the vehicle ignition switch ON (power supply to the unit ON)
2. Switch to wireless LAN mode
 - ① Wait until the system check is complete and the unit starts up.
 - ② Once the unit has started up, press and hold the switch button (for more than 3 seconds).
 - ③ Wait until the device enters wireless LAN mode (waiting for connection).
3. Initialize your wireless LAN password
 - ① In Wireless LAN mode (waiting for connection), press and hold the switch button (for more than 3 seconds).
 - ② Once the password initialization is complete, the indicators will light up in the following pattern.

● Indicator lighting pattern when wireless LAN password initialization is complete



■ : On / □ : Off

※ The wireless LAN password can be initialized even while connected to the wireless LAN.

※ For instructions on how to reconnect, please refer to the page below.

- "Connecting your smartphone and EDR unit via wireless LAN (Android)"... pages 24 to 27
- "Connecting your smartphone and EDR unit via wireless LAN (iOS)"... pages 28 to 30

■ Initializing the device settings

This section describes how to initialize the device settings. Use this when the device behaves differently than normal and turning the ignition switch OFF/ON (power supply to the device OFF/ON) does not improve the situation.

※ **All settings will be reset to the default settings.**

● Settings that will be reset

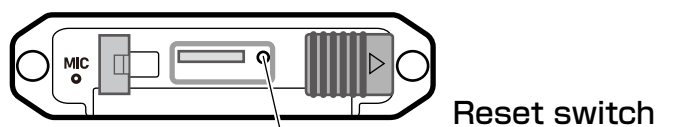
- Time setting • Wireless LAN password • Recording size • Image quality
- Impact detection sensitivity • Audio recording • Overwrite (permanent)
- Overwrite (impact/manual)

■ Initializing the EDR unit

- ① Turn the ignition switch ON (main unit power ON).
- ② Open the waterproof cap on the main unit.
- ③ Insert the tip of a ballpoint pen or similar object into the small hole on the main body and press the reset switch. (See figure below)

※ After a while the indicator will go out and the unit will restart.

This completes the initialization of the device settings.



※ If an error message appears after the system check, please check "What to do in these situations - Q&A" (pages 40 to 41) and take appropriate action.

■ In these cases—Q&A—

Below are examples of malfunctions, check items, and solutions. If the product does not function properly during use, please check the relevant area. If you experience any problems other than those listed below, or if no improvement is seen, please consult your authorized Kawasaki dealer.

●SD card related

| No. | Symptoms | Check items | Treatment |
|-----|--|---|--|
| 1 | • After the system check operation, the indicator does not light up. | • Is an SD card inserted in the device? | • Please insert the SD card correctly. • Insert a different SD card. |
| 2 | • Displays an error on the SD card. | • Are the terminals of the SD card dirty or cracked? | • Clean the terminals of the SD card or replace it with a new SD card. |
| | | • Are there any files or folders on the SD card that are not related to EDR? | • Delete files and folders that are not related to EDR, or format the SD card with this product. |
| | | • Is overwrite save (always) set to OFF? | • Turn on the "overwrite (always)" setting or replace the SD card with a new one. |
| | | • Are you using an SD card that has not been formatted with this | • Formatting is required. Please format it with this product. |
| 3 | • The event recording (impact recording, manual recording) capacity is full. | • Is your file full of protected recording files (continuous or impact/manual)? | • Remove the protection from the recorded files or delete unnecessary files. |
| | | • Is overwrite save (impact/manual) set to OFF? | • Turn on the overwrite (shock/manual) setting or replace the SD card with a new one. |

●Camera footage

| No. | Symptoms | Check items | Treatment |
|-----|---|---|--|
| 1 | • There is a difference in color tone between the images from the front and rear cameras. | • Is there a difference in the subject (environment) when recording the front and rear? | • The colour tone of the front and rear are automatically adjusted to suit the subject. There is no abnormality. |
| 2 | • The recorded image is not clear. | • Is the camera lens dirty? | • Gently wipe the lens with a soft cloth dampened with water. |
| | | • Is the recording size setting too low? | • Set the recording size higher. |
| | | • Is the image quality setting too low? | • Please increase the image quality setting. |

●G-sensor/GPS related

| No. | Symptoms | Check items | Treatment |
|-----|---|---|---|
| 1 | • Impact recording is not possible. | • Is the impact detection setting turned off? | • Turn on the impact detection sensitivity setting. |
| | | • Is the impact detection sensitivity setting too high (insensitive)? | • Set the impact detection sensitivity to a lower value (more sensitive). |
| 2 | • GPS location information cannot be obtained. The position shifts. | • Are you driving inside a tunnel, in mountainous areas, near buildings, under an elevated railway, etc.? | • Depending on the surrounding environment, there are some places where it is difficult to receive GPS signals. Please confirm from a different location. |

■ In these cases – Q&A – (Continued)

● Wireless LAN

| No. | Symptoms | Check items | Treatment |
|-----|--|---|--|
| 1 | • I can't connect to the wireless LAN from my smartphone. | • Did you enter your password correctly? | • Please specify the correct password. • If you do not know the password, please reset the wireless LAN password. |
| 2 | • I connected to my smartphone, but there was a connection error on the app. | • Is your smartphone set to "Keep connected to networks without an Internet connection"? (Android only) | • Please refer to the smartphone app guide to connect. |
| | | • Is another smartphone connected? | • You cannot connect to multiple smartphones at the same time. Disconnect any smartphones you are not using. |
| | | • Can I connect using a different smartphone? | • This appears to be a problem with the individual smartphone. Please connect using a different smartphone. |

● Operational Relationship

| No. | Symptoms | Check items | Treatment |
|-----|--|---------------------------|---|
| 1 | • The device and camera become hot during use. | • Is it too hot to touch? | • It will generate heat during use. If the product becomes too hot to touch, immediately stop using it and consult an authorized Kawasaki dealer. |

■ License Information

| Open source code | License | License Web addr |
|---|----------------------------|---|
| uitron/DrvExt/BlueTooth | GPL v3.0 | https://www.gnu.org/licenses/gpl-3.0.en.html |
| uitron/Include/Common/arm_neon.h | | |
| uitron/ThirdParty/ecos-profiling | | |
| uitron/ThirdParty/eCos | | |
| uitron/Include/Common/arm_neon.h | | |
| uitron/Common/LibC | | |
| gcclibstdc++ | | |
| gcclibgcc | LGPL | https://www.gnu.org/licenses/lgpl.html |
| uclibc | | |
| glibc | | |
| uitron/Lib/iq_tuning_api | BSD3.0 | https://www.freebsd.org/copyright/freebsd-license.html |
| axTLS | | |
| DLNA | | |
| uitron/Common/Utility/lz.c | | |
| uitron/Common/LibC | | |
| uitron/Project/DemoKit/eCos/test_ping.c | RedHat eCos Public License | http://ecos.sourceware.org/old-license.html |
| curl | MIT | https://mit-license.org/ |

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- iOS trademark is used under license from Cisco in the U.S.
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- The microSD, microSDHC, and microSDXC logos are trademarks of SD-3C, LLC.
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- Intel and core are trademarks or registered trademarks of Intel Corporation in the United States and other countries.

FCC statements

Federal Communications Commission (FCC) Statement

15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for

15.19

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference and
- 2) this device must accept any interference received, including interference that may cause undesired.

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. To comply with RF exposure compliance requirements, this equipment should be installed and operated, keeping the radiator at least 5mm or more away from the person's body.

■ ISED statements

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Caution: Exposure to Radio Frequency Radiation

1. To comply with the Canadian RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.
2. To comply with RF exposure compliance requirements, this equipment should be installed and operated, keeping the radiator at least 5mm or more away from the person's body.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Attention: exposition au rayonnement radiofréquence

1. Pour se conformer aux exigences de conformité RF canadienne l'exposition, cet appareil et son antenne ne doivent pas être co-localisés ou fonctionnant en conjonction avec une autre antenne ou transmetteur.
2. Pour se conformer aux exigences de conformité RF exposition, cet équipement doit être installé et utilisé en maintenant le radiateur à au moins 5mm ou plus du corps de la personne.