JAEWONCNC

User's Manual

IONE-3800FU

Read user's manual carefully in order to protect the user's safety and ensure the accurate use of the product.

Content

Caution

Before using this product 2
SD Card 3
How to use 4

Product Features 5

Product

Component 6
Name of Product details ..... 7~8
Product Specification 9
Voice announcement and LED 10
Buttons and AV OUT 11
SD Card 12
How to format SD Card 13

How to install

How to install 14

PC Viewer

Exclusive PC Viewer 15
Play back on smartphone 20

Memo 21

Product Warranty/ Electromagnetic Compatibility Registration 22

2. Before using this product

Warranty and Limitation of Liability

JAEWONCNC Inc. is not liable for any problems caused by violating the statements written in the user's manual.

- JAEWONCNC is not liable for the product malfunction, loss of data and any damages incurred when using the product.
- A consistent care and attention is essentialto handle SD card which saves the recorded data.
- IROAD IONE-3800FU is the product developed to utilize recording and saving the images of vehicle accidents or its impact on vehicle, but IONE-3800FU shall not be liable to record and save every stream of video clips.

Precaution

The power supply should use the legal voltage, otherwise it may cause damage of product and fires.

* IROAD IONE-3800FU is Full HD product which is considered a high heat product.

* Use the recommended voltage IONE-3800FU.
  (Use the recommended voltage otherwise, it can cause malfunction of the productor fires)

* Do not arbitrarily disassemble and modify the product, otherwise it might cause damage of the product and the electric shock.It should be considered user's fault and voidthe warranty.(Make sure to request a service calling to service center when itrequires)

* Make sure that the power cable is not cut or damaged when attaching other electronic gadgets on the vehicle, otherwise it can cause product failure or danger of electric shock.

* It is highly recommended not to connect the constant power cable to the Black-box because it can cause malfunction of the product by the different conditions of vehicle and surrounding environments (JAEWONCNC is not liable for vehicle battery discharges or fires caused by the constant power cable connection)

3. SDCard

SD Card

Make sure that the power cable should be plugged off and LED should be turned off before you insert or remove the SD memory card,if you want to check the saved data in the SD card.

- Do not disassemble the SD card by force it can cause the damage to the product.
- Do not disconnect the SD card while the product is activated. It can cause data corruption and damage of the SD card.
- Be advised to keep the SD card in the card case when you keep or move it, otherwise data can be corrupted by static electricity or external power voltage. (Do not use the product at the place undera high-temperature, humidity and the possible corrosion)
- It is highly recommended to store the important data in HDD, CD or another external storage device.
- It is highly recommended to check the recorded data at least once a week and format the SD card once a month
- The SD card is expendable item which is highly recommended to have regular check and back-up, the life-time of SD card can be shorten by a long time use and it causes the product malfunction and being unable to save any more video filesin the SD card.

* IONE-3800FU is Full HD Vehicle Black Box therefore the lifetime of SD card may possibly be shorten.
* If the SD card is to be inserted to the product after it is formatted, folders are automatically created and record and save videos
* Be aware of handling SD card as the Full HD function can possibly heat up the temperature of SD card.
* It is not recommended to use Constant Power Supply. If it is necessary to use the Constant Power Supply, change the SD card every 3 months otherwise, change it every 6 months.

How to remove the SD card

IONE-3800FU is shut down in 3 minutes by switching off the ignition or disconnecting the power cable from the product.

Make sure to follow the following order below when you insert or remove the SD card. Plug off the power cable from the product.

1. SD card Remove

- Switch off the ignition
- Make sure that the LED is turned off
- Remove the SD card if the LED is completely turned off
  (Removing the SD card by force can cause damage of the product.
  The SD card will come out by a light press)

2. SD card Insert

- Insert the SD card into the slot on the main unit.
- Switch on the ignition after the product is connected with cigarette power supply

* Insert or remove the SD card when the power cable is disconnected.

4. How to use

Please make sure to follow guidelines below, otherwise it can cause damage of the SD card or fires.

Be advised to format a new SD card on PC for the first use.

※ It is highly recommended to use the SD card which is designated by JAEWONCNC as IROAD IONE-3800FU is Full HD product.

- Make sure to prevent IONE-3800FU from malfunctioning by staying under the shelter to escape direct light as the internal temperature of vehicle can jump up in summer season.
- Do not try to control the product while driving. Please make sure to control the product in safe environments.
- Do not touch the SD card or the product with oily or wet hands.
- Do not insert impurities into the SD card slot.
- Do not use water or volatile chemicals when you clean the product but use the soft and dry cloth.
- If the product is physically damaged or disconnected to power supply, the product cannot video-record and save data at all.
- Do not use dark tinting films on the vehicle window and remove impurities, otherwise it can disturbvideo-recording and result in degrade recording quality.
- Check video recordings to ensure if the camera angle is properly adjusted when you change location of the product.
- Contact your sales representative or A/S center immediately if there is any product malfunctions.
- Do not give the product violent force, otherwise it can cause damage of the product.
- Even though the product is operated normal at the point of installation, the change of location can cause the product malfunction. Fix the product firmly on the spot and do not give it violent force to change the location of product.
- Do not use other SD cards rather than those are recognized authentic or recommended SD cards. The use of other SD cards can cause the product malfunction or the SD card malfunction.
- Do not disconnect the SD card from the product or turn off the product or switch off the vehicle during firmware upgrade, otherwise it can cause the SD card malfunction or a serious loss of data.

5. Product Features

High Definition 1 Channel

1920 X 1080
High Performance of Sony Sensor built-in

3 Dimensional Sensor (G)

Built-in 3G-Sensor can detect and record impact, acceleration, and deceleration (3 Axis-X,Y,Z)

Automatic Parking Mode

It is efficient to save the video files in the limited memory space.
It is possible to set the Parking mode if it is necessary.

Motion detection

If movement is detected by the G-sensor,
the recorded video files are saved into the Parking Folder.

※ This function can be operated using the constant power supply.

Constant Recording/ Event Recording

Constant Recording: the product records video minutely.
Event Recording: save video recording files in the Event Folder when it detects the impact.

Voice Announcement and Voice Recording

It is possible to check the condition of device.
It is possible to playback video and sound as sound is recorded synchronized with video.

Micro SD/ Built-in Format Function support

It is possible to playback video files on Smart phone.
The saved video files are overwritten from the oldest video files.
It is possible to format the SD card by the Built-in Format Function.

Exclusive PC Viewer/Smartphone play/PC media play

It is possible to check the GPS information and the impact information at the same screen.
It is possible to play on smart phone.
It is possible to play on media player.

6. Component

Basic Component

Main unit and Mount Cradle

Micro SD Card

Cigarette Power Cable

Manual

Optional Accessory

External GPS
(Option)

Constant Power Supply Cable

Card Reader

AV Cable

▶ Apart from the Main Unit, Micro SD card, Micro SD card adapter are components that JAEWONCNC is not liable for After-Service (SD card and Micro SD card adapter can be exchanged within 14 days of purchase in case of malfunctioning)

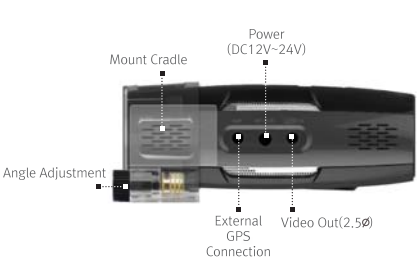
▶ The images of components can be different from the real and some of components can be changed by the situation of company.

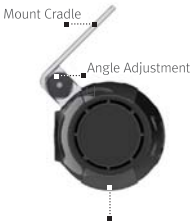
7. Name of Product Details

GPS can automatically be recognized when GPS External Antenna is connected to the product.
It is possible to check the recorded GPS data(Time, Location, Speed, Direction) in the exclusive PC Viewer by connecting external GPS to the black box.

※ Please make sure to connect External GPS(optional accessory) & be careful with antenna direction

8. Name of Product Details





9. Product Specification

3800FU SPEC

Channel	One channel front
Lens Angle	140° ~145°
Level of illumination/LED	More than 0.5 LUX/ Built-in High Intensity LED
Video Out	NTSC
Video In/Out	AV Out(2.5 pie)
Function	Quick button support(Event, Mute, Self-Format, Parking Mode)
Resolution	1920X720(HD)
Frame	7~30 Frame/Sec.
Video format/Memory/Recording methods	MPEG4(H.264)/ SDHC 8GB ~ 32GB/ Over Writing
Audio recording/Audio out/Voice Announcement	High Sensitive Mic built-in/ Built-in speaker/ LED
GPS	External Type(Option), Location/ Time/ Speed Support
G-Sensor	3 Axis Acceleration Sensor(X, Y, Z)
Operation Voltage/Operation Temp./	12~24V / -20° C ~ 60° C /
Storage Temp./ Power Consumption	-30° C ~ 85° C / 12V(280mA ~ 320mA)
Battery	Li-polimer(110mA/3.7V)
Recording Mode	Constant/ Event or Manual/ Parking/ Motion Detection
Constant/ Event/ Motion Detection	Minutely/ 5sec. before impact 25sec. after impact/ 5sec. before motion detection 25sec. after motion impact
SD Card Format	Built-in format function
Security	Blue, White LED
PC-Viewer/ PC OS	Exclusive PC Viewer, PC media player/ Win XP, Vista, Win7
F/W UPDATE	Firmware Update Support
Additional Function	Reset
Size	103.55XØ38.0(mm)

※ The above product specification and function can be changed in order to improve the performance of the product without prior notice.

10. Voice Announcement and LED

	Operation & Function	Voice Announcement	LED1 (Security) Blue+White	LED2 (GPS Option) Green+Orange	❶ LED3 (REC) Red+Orange	Note
Power On Device Booting	Power On	"Please have a safe driving today, too"	●	●	●	System Check
			●	○	○	
Power Off	Power Off	–	●	◌	◌	LED2 and LED3 flicker alternately at an interval of 0.5 sec. and then power off.
Recording Mode	Constant Recording	–	Blue&White Cross flickering	–	●	It can be different by functional environments ❷
Event Recording	Automatic or Short press Event button	Alert Sound	Blue&White Cross flickering	–	◌	LED3 flickers by 0.3sec. (MUTE On is Orange)
SD card format	Long press Event button (5 Sec. or more)	"It starts the initialization of SD card now"	Blue&White Cross flickering	◌	◌	Cross flickering between REC LED (–) GPS LED (Auto rebooting after format)
Mute	Short press Mode button	–	Blue&White Cross flickering	–	●	Orange comes on MUTE On (In Constant Recording Mode)
Parking Mode (Motion on)	Setup Window in the PC Viewer	Alert Sound (if Alert Sound is set up in the PC Viewer)	○	–	◌	Automatic Set Up: Automatic Activation in 20 min. Manual Set Up: Long Press Mode button.
Parking Mode (Motion off)	Automatic Activation System or Long press Mode button (More than 5 sec.)	–	Blue&White Cross flickering	–	◌	Cancel: Impact Detection or a Short Press on Mode button (Orange comes on MUTE On–first priority)
Security	Security	–	Blue&White Cross flickering	–	–	Front Blue LED and White LED flicker alternately
GPS	Power on	–	Blue&White Cross flickering	●	–	❷
SD card malfunction or the product malfunction	Alert	"You can't use SD card. please replace it with new one"	○	◌	◌	LED2 and LED3 flicker alternately at an interval of 0.5 sec./ Voice Announcement.
Firmware Update	❸	"It starts the upgrade"	○	◌	◌	LED2 and LED3 flicker alternately at an interval of 0.5 sec.

❶ Recording LED : It shows the status of LED .

❷ GPS: The reception may not be good enough if the vehicle is at the area of non-reception area (basement garage, tunnel and highway) or under the bad weather or the electromagnetic interference from other electronic devices inside vehicle or different types of vehicle.

❸ F/W update: It is possible to upgrade firmware copying it to the SD card and inserting the SD card to the product

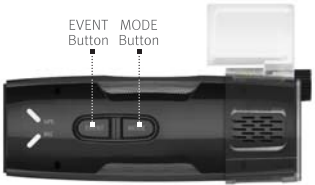
▲ The function related to the product operation can be changed without prior notice in order to improve the performance of the product.

● Active: On ○ Non-active : Off ◌ Flickering

11. Buttons and AV OUT

Easy Button Function

It is possible to control the product manually using EVENT and MODE button on the back.



EVENT (EVENT Recording/ SD card Format)
- Short press the button starts the EVENT recording (Manual recording)
- SD card Self-format: Long press
("It starts the initialization of SD card now")

MODE(Mute/ Parking Mode)
- Short press the MODE button stops recording sound.
- Long press the MODE button more than 2 seconds, the PARKING mode is activated.

AV OUT

It is possible to watch the real-time recording video by connecting with navigation or AV devices.
Use V-OUT port on the IROAD IONE-3800FU
The width of AV input port can be different by the different models of navigation.

12. SD Card

•There are three different folders and the explanations for each folder follow as below.

EVENT (Impact)	NORMAL (Constant)	CONFIG. (Set up)
30% of SD Card and sequential overwriting from the oldest records	70% of SD Card and sequential overwriting from the oldest records	No overwriting folder

◎ Micro SD card Recording Time

60 seconds

60 seconds

60 seconds

◎ Micro SD card Capacity

Constant:4 hours
Parking:8 hours

Constant:8 hours
Parking:16 hours

Constant:16 hours
Parking:32 hours

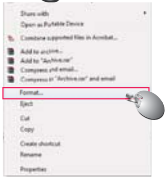
※ The maximum capacity can be varied by the difference of the user's environment as the save system is variable save system.
※ 8G~32G SD Class above 10is recommended.
※ The Constant Power Supply Unit can shorten the life time of SD card.
Change the SD card every 5 months with the Constant Power Supply Unit, and 3 months without.

13. How to format SD card

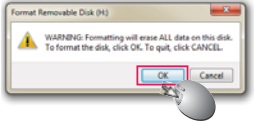
1. Double –click “My computer”

2. Click the right button on the mouse at “Removable Media Device”
Click the left button on the mouse at “Format” of menu bar when the menu bar pops up.

3. Format Window pops up as shown in the picture below.
Select “Quick format” and Click the left button of your mouse at “Start” button.



4. Click “Confirm” button when Warning Window pops up.



5. Do not click the “Cancel” button but wait until format is completed when green bar is in progress.

6. Click “OK” button when “Format complete” comes up.

7. Click “Close” button in the status bar.

8. Format is completed

14. How to install

1. Insert the enclosed memory card into the product as shown in the picture above.

2. Remove the protective plastic film from the sticky tape on the mount.

3. Use soft cloth to wipe out the spot where the device is attached on the front window. (Adjust the angle by the height of vehicle.)

4. Plug the cigarette power cable into the product

5. Plug the cigarette power cable into the cigarette power outlet.
Check if the product works.

※ To install the Constant Power Supply Unit, contact your sales representative, refer to Homepage(www.navinc.co.kr)

15. Exclusive PC Viewer – 1

Exclusive PC Viewer Function – 1

(1) Select folder: Select folder which the recorded videos are saved in.
(2) Map information Screen On/Off: It is possible to mark or drag the Map information screen.
(3) Video screen capture: It is possible to capture images on the Video Screen.
(4) Print: “Preview window” pops up while selecting “print”
(You can print it out)
(5) Enlargement: It is possible to enlarge video up to the monitor screen size.
(6) Configuration: It is possible to set up recording configuration.
(7) Program information is displayed on the PC Viewer.
(8) Minimalizing PC Viewer Window.
(9) The program close-up.

※ (2)~(5) buttons are activated while playing video.

16. Exclusive PC Viewer – 2

Exclusive PC Viewer Function – 2

(1) Play Speed Change: [–] Slow/ [1X] Normal/ [+] Fast play
(2) Play Searching Bar: Display Play Section Mark.
(3) Bookmark: It is possible to set or delete a bookmark
(4) Play Control Panel:
- Previous files: Play the previous file from the recording file list
- Go to previous bookmark, if there are previous bookmarks.
- Go to 5 seconds back: Go to 5 seconds back from current location
- Play/Pause: Video play and pause – using space bar is the same function
- Go to 5 seconds forward: Go to 5 seconds forward from current location
- Go to next bookmark: Go to next bookmark if there are next bookmarks.
- Next File: Play the next file from the recording list.

(5) Playing time/Total time: Current play time/ Total play time.
(6) File name: Name of Video file.
(7) Volume: It is possible to control volume (Mute: Click speaker button)

Previous File / Go to the previous bookmark / Go to 5 seconds back / Play or Pause / Go to 5 seconds forward / Go to next bookmark / Next File

17. Exclusive PC Viewer – 3

Exclusive PC Viewer Function – 3

(1) Video filtering : It is possible to hide or list up the Constant or Event files.
(2) List up recording files : Ascending order or Descending order
(3) Recording list : List up recording files
(4) Memo function : It is possible to create new memo and update it by clicking Memo Icon.(Memo function is only activated while playing video.)
(5) Mileage and average speed/ fastest speed : Total distance and fastest speed within video footage.
(6) Speed Change Graph : Green
Impact Sensor Graph : Blue, Red
(The blue graph is changed into the red graph when the impact is detected in the Event mode)
(7) Full screen: Press Enter Key to make full screen
(Press ESC to go back to the default screen size)

18. Exclusive PC Viewer – 4

Exclusive PC Viewer (The map is available only if external GPS is connected to the product)

[Large map screen]

[Mini-map screen]

(1) Map Information Screen: It displays Mini Map Screen
(2) Enlargement: [+]Map Screen enlargement
Reduction: [–]Map Screen reduction
(3) Map Conversion: Mini Map/Large Map
(4) Map scroll On/Off
(5) Map and satellite view conversion
(6) Daum map and Google map conversion
(7) Large Map window Lock: It is possible to fix or move the large map window.
(8) Conversion to small map

※ The map is available only if there is the stable Internet network.

19. Exclusive PC Viewer – 5

Configuration Set-up

- Initializing Configuration
- SD Card directory
- It is possible to set up the frame rate from 15fps to 30fps.
- It is possible to switch audio recording On/Off
- It is possible to adjust 4 different volume levels of the voice announcement.
- It is possible to select alert sound On/Off.
- It is possible to set up sensitivity of the impact sensor.
- It is possible to select the Motion detection function On/Off
- It is possible to set up time and date.
- It is possible to check the firmware version.

※Setting menu can be different by the different version of exclusive PC Viewer.

20. Video Play on Smartphone

It is possible to play video files of the SD card in the product as the video file extension is AVI.

It can be different the ways to play video files of the SD card according to the different types of smartphone.

Product Warranty

- Product Name : IROAD IONE-3800FU
- Product No. : IONE-3800FU
- Serial No. :
- Date of Purchase :
- Customer Name : (☎.)
- Dealer (Market) : (☎.)

Thank you for purchasing IROAD IONE-3800FU, Vehicle Black-box.
JAEWONCNC warrants the product to be free from defects in materials and workmanship pursuant to terms and conditions of consumer injury compensation rules as follows.

- ·Be advised to contact with the agent or sales representative when you find any defects of your product.
- ·HJAEWONCNC warrants the product to be free from defects in materials and workmanship for one (1) year from the date of original purchase.
- ·The foregoing warranties shall not apply with respect to product subjected to misuse, over-voltage, and natural disaster such as accident or damages by circumstances beyond human control.
- ·Return and replacement will be made within 14 days from product delivery.
- ·If you want your product to be returned,
  You are required to return the product to the store you purchased with original packaging without breaking a seal on your product.
- ·Customer will be responsible for delivery charges for shipping and handling the product to return. (Except for the product to be returned for defects)
- ·The foregoing warranties will be void with respect to products subjected to change of the use other than the sole use for the vehicle which is originally intended and sold for.

JAEWONCNC . CO., LTD.
+82-2-444-7933
www.navinc.co.kr
Wontac Bldg., Chunggok-dong Gwangjin-gu Seoul

Certified as suitable for using with requirement of electromagnetic wave	
KC	1. Product(Product No.): Vehicle Black-box(IONE-3800FU) 2. Certification No. : KCC-REM-S1R-IONE-3800FU 3. Name of the certified entity: JAEWONCNC Co. Inc. 4. Certified date : September 2012 5. Manufacturer/Country: JAEWONCNC Co. Inc/ Republic of Korea
A-Class Device (Business use for broadcasting and telecommunication Device)	Seller or user need to be noted that this device has been officially registered as passed the suitability test for the requirement of electromagnetic wave and should be used at the areas other than home.