

IROAD X11 PRO USER GUIDE

To ensure safe usage, please read this manual carefully before installation and follow the instructions herein.

Store this manual in a secure place for future reference.

IROAD reserves the rights to change or modify the contents of this manual at any time without prior notice.

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THANK YOU FOR CHOOSING IROAD MOBILITY's IROAD VEHICLE RECORDER

This manual contains how to operate the product and guide you to use it correctly. Please read carefully before using the product and follow the instructions provided. This manual will guide you through the device's functions and operation.

■ GUARANTEE AND SUPPORTING

- Available for download on the website : <https://iroad.kr>
Global website (Global - <https://iroad.kr> / Singapore - www.iroad.sg / HongKong - www.iroad.hk / Malaysia - www.iroad.my)
- Dedicated viewer, latest firmware and other product information are available for download on the website.
- IROAD MOBILITY is not responsible for any problem that occurs if the device is used or obtained illegally.
- Though this product records and saves footages in the event of accident, it does not guarantee that every single accident scene is fully recorded.
- If the impact on the vehicle is minor, the accident scene may not be recorded as the impact sensor is unable to detect minor ones.
- The recordings obtained from the product might be used as a proof of accident. However, IROAD MOBILITY will not be responsible for any gain or loss caused by the accident.

■ COPYRIGHTS AND TRADEMARK

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- This manual is the property of IROAD MOBILITY, no one is allowed to attempt to make an unauthorized copy, edit and/or translate the manual.
- IROAD is the trademark of IROAD MOBILITY. IROAD MOBILITY has rights to IROAD (Name, Design, Brand image) any unauthorized use of IROAD will result in prosecution.

■ VOLTAGE RELATED ISSUES

- Please make sure to use the recommended voltage input.
Otherwise, it may cause the product to not function well or even overheat which may damage the vehicle or the product itself.
- Do not disassemble or modify the product. Or else, it will be deemed as the user's fault and the warranty will be void.
- Make sure that the fuse cable is not being cut or damaged when attaching other electronic gadgets on the vehicle.
Otherwise, it may cause product failure, damage to the vehicle or user itself. Use of qualified uninterrupted fuse cable produced by IROAD MOBILITY is recommended.
- Unauthorized installation of the uninterrupted fuse cable may cause malfunctioning on the device. Different types of vehicle will have different ways of installation. (Please contact a professional engineer if you require any help regarding installation)

■ INSTALLATION

- Do not mount Vehicle Recorder in a way that might block your view while driving, as it may cause an accident.
- Connect all the cables provided into the correct ports. Wrong connection or input may cause the product to malfunction.

■ THE RIGHT USE

- Do not connect to the device while driving (Viewing live recording etc), as it may causes serious accident. (Please connect your device when the vehicle is stationary.)
- Do not apply significant pressure on the product - especially the lens. Otherwise, it may cause product to malfunction.
- Keep the product away from flammable and combustible liquids which may cause fire hazards.
- The quality of the image(s) captured could deteriorate when:
 - a. Driving during night time with bad surrounding area light.
 - b. The vehicle is passing through a tunnel
 - c. Temperature of the device exceeds optimal operating temperature
- The quality of the video recording might be affected due to the tinted, dirt or water stain on the wind screen.

■ MANAGEMENT

- Do not operate the device when being exposed to direct sunlight for a long period of time. Otherwise, it may cause device to malfunction.
- Please check the recorded footage monthly and reformat the memory card regularly to prolong its lifespan.
- Do take note whether there is any error message being prompted by the device and make sure to check that the device is working normally before and during the drive.
- Do not remove the memory card / power cable during firmware update as it may cause the device to malfunction or loss of data.

■ MEMORY CARD AND PRECAUTION

- Memory cards have a limited write lifespan, which may vary depending on the memory type and usage conditions. When the lifespan limit is reached, errors may occur such as device startup failure or automatic restart with an error message. Memory card lifespan is affected by read/write cycles, high temperatures, and improper handling (such as removing the memory card without shutting down the device).
- The device must be switched off when ejecting the memory card. Otherwise, the memory card may get corrupted or the data stored might get erased.
- When not in use, store the memory card in the case provided. Avoid keeping it under hot or humid environment, as it may damage the memory card.
- The use of a genuine IROAD memory card is recommended, as most third-party memory cards are designed for general storage use and may not be suitable for continuous 24/7 overwriting recording. There is a 6-month warranty period from the date of purchase.
Continuous use with the constant power cable may shorten the lifespan of the memory card.
- The lifespan of the memory card will be reduced due to constant writing and reading of data.
Therefore, to ensure the functional stability of the memory card, please format it at least twice a month and also check if the device is working normally.
- Product only permits the recording of files on X11Pro program. Any other files will be deleted or can even damage the memory card.
(Please use the SD card for the product only, otherwise it will be deleted.)
- On first usage, it takes up to 5 minutes for the memory card to format before the device starts operating. (Depending on the memory capacity)
Please do not remove the memory card while the device is running as it will cause damage to the memory card and the device.
(Shut down the device before taking out the memory card)

4. PRODUCT INFORMATION

IROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

■ Package Component

- Basic Components



Front Camera
/ Cradle



Rear Camera
/ Cradle



Uninterrupted
Fuse Cable



Rear Camera
Cable



IROAD Genuine
MicroSD



Wi-Fi
USB Dongle



User Manual



Protective
Film

• The Basic components may change without prior notice.

- Optional Items



Interior
Infrared (IR) Camera



External Waterproof
Camera



Cigar Jack
Power Cable



USB MicroSD
Reader



OBD-II
Power Cable

5. PRODUCT INFORMATION

IROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

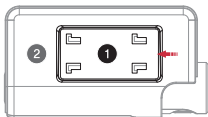
■ Specification

Model	IROAD X11 PRO
Image Sensor	Front: SONY STARVIS 2 (IMX675) 5.0M Pixels / Rear: SONY STARVIS (IMX335) 5.0M Pixels
Resolution/Frame/Viewing Angle	Front: 2560x1440 QHD 30fps / 155° / Rear: 2560x1440 QHD 30fps / 155°
Wi-Fi	Built-in Wi-Fi (2.4GHz / 5GHz supported) - Smartphone playback/settings, Firmware automatic upgrade
Wi-Fi Button	Enable connection via Wi-Fi "Standby mode for registration" for new users
ADAS	LDWS (Lane Departure Warning), FVDW (Front Vehicle Departure Warning)
Night Vision	X-VISION 2.0 (Intelligent Night Vision)
Audio Input	Embedded MIC
Video/Audio Compression	H.264 / ADPCM
Vibration Sensor	3-axis acceleration sensor (Start recording when it senses external impact)
GPS Sensor	Built-in GPS (Google map sync, inform the location and travelling speed of the vehicle)
Storage	Micro SD 32GB ~ 256GB (Format Free System)
Recording Mode	Driving, Event(Impact), Parking(Timelapse, Motion detection)
Uninterrupted Power	LBP (Low voltage cut-off), Overheating prevention is embedded
Power Supply / Power Consumption	DC 12V ~ 24V / 2.9W (average)
Operating Temperature/Humidity	-10 ~ 60°C (Storage temperature : -20 ~ 70°C) / 10 ~ 95%
LED	Security LED
Viewer	Win10 (64Bit), Mac (OS X 10.13 64Bit or higher)
Application	IROAD App (Android 10.0, iOS 14.0 or higher version)

6. SETUP

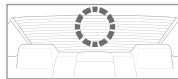
IPROAD QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

■ Mounting a cradle for front camera



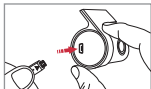
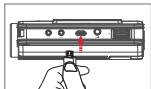
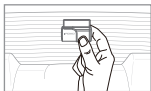
- Align the mounting slot (2) with the cradle (1) and slide to the side to lock the device.

■ Placement for Dash Camera (Front/Rear)



- Use dry cloth to wipe the area on the windscreen where the device will be installed.
- Make sure to install the device where the vision will not be blocked during driving.

■ Product Installation



1. Wipe the windscreen with soft cloth to remove any stains or dust where the product will be attached on.
2. Remove the protective film from the adhesive tape on the front/rear camera before installing it.
3. Connect the rear cable into both front and rear camera port.

Please make sure the rear cable connected to both side of the rear sockets are secured after installation.

7. SETUP

IROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

■ Product Installation



4. Connect power cable to DC-IN slot

5. At the other end of the cable, connect it to the vehicle fuse box or cigar jack power.

Procedure on installation for uninterrupted fuse cable,
please refer to the website www.iroadkr.com or follow the instructions stated on page 8

6. Make sure that the product is operating normally

■ Inserting Memory Card into the device



Once the memory card is inserted into the memory card slot,
user will be able to hear a "click" sound.

At first usage, it takes up to 5 minutes for the memory card to format before the device
starts operating. (Depending on the memory capacity)

Recording starts with a voice guidance mentioning "Start recording"

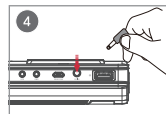
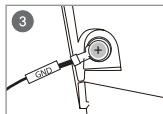
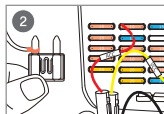
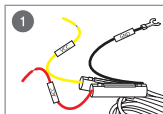
- Make sure to insert the memory card in the correct way.

■ Uninterrupted fuse cable (LBP function)

The LBP function will prevent the car battery from continuously discharging during parking mode when the device detect the voltage dropping below the preset voltage.

(If you park for a long time, battery discharge may occur depending on the vehicle condition.)

■ How to Install Uninterrupted Fuse Cable



- 1 Find the correct fuse terminal using electric tester to locate the fuse box of the vehicle.
 - 2 [VCC]Line (Yellow Line): Make sure engine is off and connect to a current flowing fuse.
[ACC]Line (Red Line): Connect to the fuse in which the electric current is not present.
 - 3 Connect the GND wire to the vehicle ground iron part. Do not connect the wire on fuse that is not working or having voltage leak.
 - 4 Connect the power cable to test whether the product is operating. Once confirmed, organize the wiring cables neatly.
- User is advised to check the wiring before doing any installation.
There might be a switch of (VCC, ACC, GND) wire color. Please do contact professional technician if you require any help on installation.
 - Please do switching test (Driving mode <-> Parking mode) before wiring.
 - Make sure to insert the memory card in the correct way.

9. USING THE DEVICE

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Product Operation

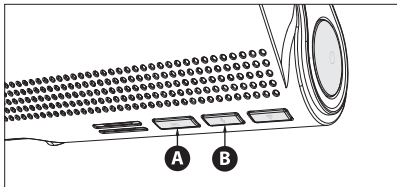
Power ON	- All LEDs will turn on when the engine starts. - Voice guidance will play once the device begins recording. - A "GPS Connected" voice notification will play when a GPS connection is established.
Power OFF	- All LEDs will turn off when the engine is turned off or the power cable is disconnected.
Wi-Fi User Registration	- Pressing the Wi-Fi registration button will trigger voice guidance (Registration Standby Mode). - The user must select the product they wish to register from the list. - "Registration Standby Mode" will be deactivated after 5 minutes.

| 10. USING THE DEVICE

IRROAD QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

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■ Button Scenario Guide 1



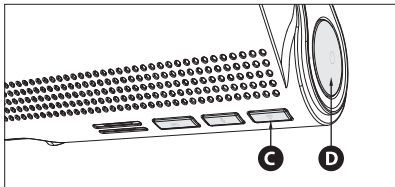
MODE	OPERATION	DESCRIPTION
MANUAL RECORDING	Press the button (A) shortly.	Start manual recording.
FORMATTING THE MICRO SD CARD	Press the button (A) for 7sec.	"SD card is formatting, please wait, system restart." will be signaled, format the microSD card and restart.
VOICE RECORDING ON/OFF	Press the button (B) shortly.	"Voice recording is OFF" OR "Voice recording is ON"

11. USING THE DEVICE

IPROAD **X11 PRO**
QUALIFIED VIDEO RECORDER OF VEHICLES

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■ Button Scenario Guide 2



MODE	OPERATION	DESCRIPTION
WI-FI REGISTRATION MODE ON/OFF	Press the button (C) shortly.	"Stand-by mode for the registration" will be heard and Wi-Fi registration mode will be turned ON. OR "Stand-by mode for the registration is released" will be heard and Wi-Fi registration mode will be turned OFF.
WI-FI POWER ON/OFF	Press the button (C) for 7sec.	Wi-Fi power will be turned ON/OFF. "Wi-Fi power is ON" / "Wi-Fi Power is OFF"
DASHCAM POWER ON/OFF	Press the button (D) for 5sec.	Turn ON/OFF the dashcam power manually.

| 12. USING THE DEVICE

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■ Recording Mode

Normal Recording	- Once the power is connected, the device will boot up and start recording. - Security LED flickers once.
Event Recording	- Once the device detects any shock (REC LED light will flicker), it will be recorded under Event recording mode. - It will switch back to Normal recording mode after the Event recording time is finished.
Parking Recording	- Once the engine is turned off (ACC line), the device will automatically enter parking mode after 5 minutes. - Video from the 5 minutes prior to entering parking mode is saved as Normal recording. - Any motion detected after entering parking mode will be saved as a Parking Motion Event. - Switch to Normal recording mode when the user starts to drive.
Motion Detection	- Once the device detects any movement within 3 meters range, it will start to record. - Security LED light will start to blink faster. - Once there is no movement, it will switch back to parking recording mode.

13. USING THE DEVICE

QUALIFIED VIDEO RECORDER OF VEHICLES **IPROAD X11 PRO**

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■ Voice Guidance 1

SD card is damaged, video cannot be recorded
Memory Card needs to be formatted
SD card is formatting, Please wait
Start recording
Entering parking mode
Drive safely
Pay attention to the road ahead
Stop recording
System restart
Shutting down the system
Firmware updating, do not shut down the system
Firmware update complete
Firmware update failed
Voice recording is on
Voice recording is off
Stand-by mode for registration
Stand-by mode for registration is deactivated

14. USING THE DEVICE

IPROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

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■ Voice Guidance 2

GPS is connected.
GPS is disconnected
Wi-Fi Power is off
Wi-Fi Power is on
Wi-Fi is connected
Registration complete
Resetting the settings
Parking mode is off
Parking mode is on
Event occurred during parking.
Rear camera is connected
Rear camera is disconnected
No SD card
Shutting down the system

15. USING THE DEVICE

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■ Memory Card Directory



Config



Event



INF



PARK



USER



Viewer

Config	System Folder - boot : Saved device status information - config.bin : Saved device version and setting values
Event	Event (Impact) Recording Folder - Event recording data is saved in this folder.
INF	Normal (Driving) Recording Folder - Normal recording videos are saved in this folder. The number of files saved depends on the capacity of the memory card.
PARK	Parking Recording Folder - Parking recording videos are saved in this folder. The number of files saved depends on the capacity of the memory card.
USER	Manual Recording Folder - Manual recording videos are saved in this folder. There are 20 manual recording files regardless of memory capacity or allocation.
IROAD_XVIEW_iOS IROAD_XVIEW_Windows	Viewer Setup Program (MAC) Viewer Setup Program (WINDOWS)

16. DEDICATED PC VIEWER

IROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

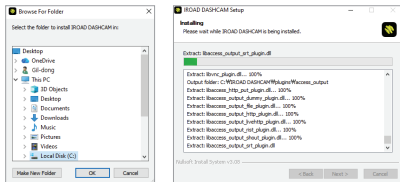
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■ Program Installation

1. The viewer software is not pre-installed on the memory card.
2. Insert the Micro SD card and then connect the power to the product. Recording time may vary depending on the capacity of the SD card.
3. Upon first use, it takes approximately 3 to 5 minutes to initialize and create the file system.
(All LEDs will flicker during initialization. Once finished and recording begins, the REC LED will turn on.)
After this, insert the SD card into your PC.
4. Execute the IROAD DASHCAM file saved on the memory card to download the viewer files.

■ Running the Program

1. Click the IROAD DASHCAM installer (Launch Viewer) icon to start the viewer program.
2. Open File - Click the icon(▲) shown in the picture within the viewer to open the "Browse for Folder" window.
Select the removable disk and click the "OK" button.

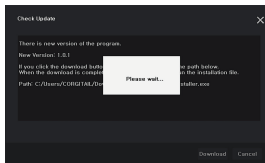
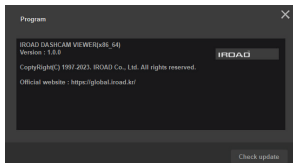


| 17. DEDICATED PC VIEWER

IROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

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■ Automatic Update PC Viewer Program



1. After launching the viewer program, a "check update" pop-up will appear if a new update version is available.
2. Clicking the [Download] button will trigger a "Please wait..." pop-up.
3. When the Update Message pop-up appears, clicking the [YES] button will close the Viewer and execute the downloaded Viewer installation file.
4. Once the installation is complete, the Viewer will launch, and the latest Viewer Version will be displayed.

18. DEDICATED PC VIEWER

ROAD X11 PRO
QUALIFIED VIDEO RECORDER OF VEHICLES

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Overview



- 1 Front / Rear image playback screen
- 2 Front / Rear image playback screen
- 3 Recording file list
- 4 Volume control
- 5 Google Map(only when external GPS is connected)
- 6 Playback Speed
- 7 G-sensor Graph

8 Menu

	Open SD card
	Open Video File
	Download
	Language
	Setting
	Print
	Info

9 Playback Recording

	Previous
	Step Reverse
	Play
	Step
	Next event

19. DEDICATED PC VIEWER

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QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

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■ PC Viewer Screen Control & Channel Switching Guide

When playing back recorded footage through the dedicated IROAD PC Viewer software, you can intuitively swap front/rear views or control the layout using simple mouse actions.



► Left-Click: Instant Front/Rear Video Toggle (Recommended)

- Description: This feature is applied when both the Main (Large) Screen and the Sub (Small) Screen are displayed on the layout at the same time.
- Operation: Left-click once on the small screen (sub-window) located in the upper right section of the viewer.
- Result: The front and rear video feeds will instantly swap positions between the large and small viewports.
(e.g., If the large screen is showing the front view and the small screen is showing the rear view, clicking the small screen will instantly flip them.)

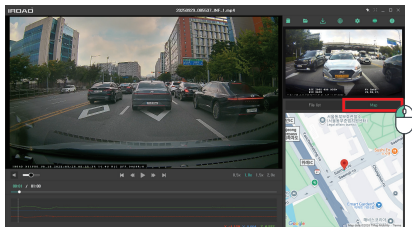
| 20. DEDICATED PC VIEWER

IROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

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■ PC Viewer GPS Map Integration Guide

The dedicated IROAD PC Viewer synchronizes driving data with GPS telemetry, allowing you to track the vehicle's real-time geographic location on an interactive map alongside video playback.



► How to Toggle the Map and Check Vehicle Location

- Description: This feature tracks and displays the precise real-time driving route and position of the vehicle on a map during video playback.
- Operation: Click the [Map] tab located right above the file list section on the right side of the viewer.
- Result: The layout directly below changes to a map display window, and a map pin/marker actively updates to show the vehicle's exact location synchronized with the currently playing video timestamp.

| 21. DEDICATED PC VIEWER

IFROAD
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■ PC Viewer Full-Screen Mode & Mouse Gesture Controls Guide 1

By activating the Full-Screen mode, you can maximize the playback viewport to fill your entire monitor.

In this mode, moving your mouse cursor to specific edges of the screen will dynamically reveal hidden control panels.



① Full-Screen Mode Transition (Top-Right Icon :)

- Operation: Click the Full-Screen icon (indicated by the red circle) in the toolbar at the top-right corner of the standard viewer interface.
- Result: The viewer application expands to a borderless full screen, maximizing visual fidelity for closer observation.

② Instant Front/Rear Channel Toggle (PIP Click)

- Operation: While in Full-Screen mode, left-click once on the small sub-window (PIP feed) anchored in the top-left corner of the screen.
- Result: The front and rear video feeds will instantly swap positions between the main full-screen display and the small thumbnail preview.

| 22. DEDICATED PC VIEWER

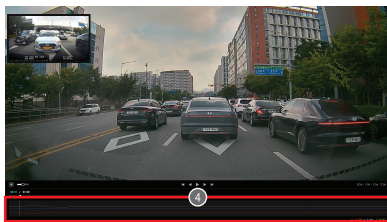
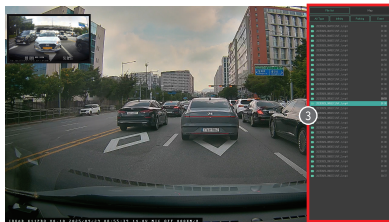
IFROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

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■ PC Viewer Full-Screen Mode & Mouse Gesture Controls Guide 2

By activating the Full-Screen mode, you can maximize the playback viewport to fill your entire monitor.

In this mode, moving your mouse cursor to specific edges of the screen will dynamically reveal hidden control panels.



3 Slide-Out File List Window (Right Screen Edge)

- Operation: In Full-Screen mode, hover your mouse cursor to the far-right edge of the monitor.
- Result: The hidden 'File List' panel automatically slides out from the right margin, allowing you to browse and select other recorded files.

4 Playback Toolbar & G-Sensor Grid (Bottom Screen Edge)

- Operation: In Full-Screen mode, hover your mouse cursor to the absolute bottom edge of the monitor.
- Result: The hidden media playback controller (play, pause, seek, playback speed) and the 3-axis G-Sensor activity graph will automatically pop up from the bottom.

Operational Note : To ensure an unobstructed field of view, the File List and Playback Toolbar will automatically hide once the mouse cursor is moved away from the screen edges.
To exit Full-Screen mode and return to the default dashboard layout, press the ESC key on your keyboard or click the restore icon.

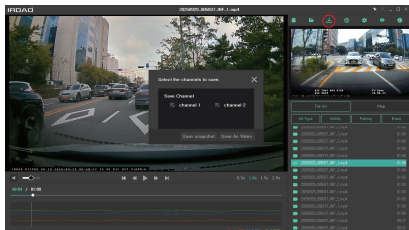
| 23. DEDICATED PC VIEWER

IFROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

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■ PC Viewer Data Export (Download & Snapshot Save) Guide 1

By utilizing the download feature in the top menu bar of the PC Viewer, you can capture high-resolution still images (snapshots) of specific moments or export recorded video clips directly to your computer in your preferred format.



1. Opening the Download Menu (Top Toolbar Icon :)

- Operation: Click the Download icon (indicated by the red circle) located on the top menu bar of the viewer.
- Result: A pop-up window titled "Select the channels to save." will appear in the center of the screen.
- Channel Selection: Check the boxes for the camera channels you wish to export (Channel 1: Front / Channel 2: Rear).

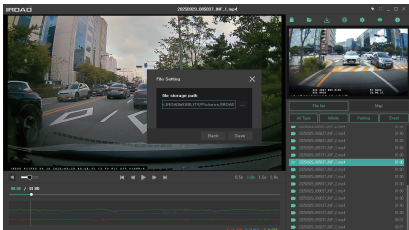
24. DEDICATED PC VIEWER

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■ PC Viewer Data Export (Download & Snapshot Save) Guide 2

By utilizing the download feature in the top menu bar of the PC Viewer, you can capture high-resolution still images (snapshots) of specific moments or export recorded video clips directly to your computer in your preferred format.



2. Snapshot Capturing Feature (Save snapshot)

- Operation: Click the [Save snapshot] button at the bottom of the pop-up window.
- Result: The "File storage path" prompt will appear. Select your designated destination folder on your local drive and click [Save] to export the high-quality freeze-frame image file.

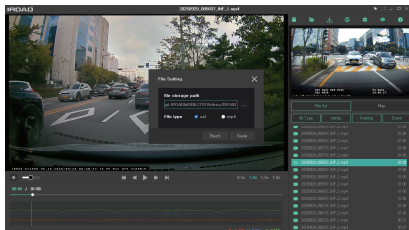
25. DEDICATED PC VIEWER

IFROAD **X11 PRO**
QUALIFIED VIDEO RECORDER OF VEHICLES

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ PC Viewer Data Export (Download & Snapshot Save) Guide 3

By utilizing the download feature in the top menu bar of the PC Viewer, you can capture high-resolution still images (snapshots) of specific moments or export recorded video clips directly to your computer in your preferred format.



3. Video Exporting Feature (Save As Video)

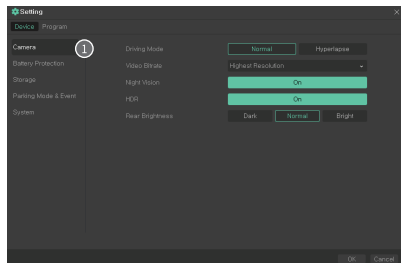
- Operation: Click the [Save As Video] button at the bottom of the pop-up window.
- Result: The advanced video storage configuration sub-window will expand.
- Configuration & Save:
 - a. File storage path: Click to specify the directory on your PC where the exported file will be located.
 - b. File type: Select your preferred universal video container format by toggling between avi or mp4.
 - c. Click the final [Save] button to initiate the rendering and output the video backup file to the chosen path.

26. DEDICATED PC VIEWER

IPROAD QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Device Settings 1



1 Camera

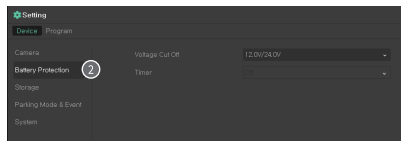
- Driving Mode: Select between standard recording (Normal) or time-lapse recording (Hyperlapse).
- Video Bitrate: Adjusts the video quality and compression rate. It is highly recommended to set this to Highest Resolution to ensure maximum video clarity for decoding license plates and road details.
- Night Vision: Enhances and brightens video footage captured in low-light night environments (On/Off).
- HDR: Prevents backlighting and light bleeding to improve license plate readability (On/Off).
- Rear Brightness: Adjusts the brightness of the rear camera in 3 levels(Dark / Normal / Bright).

27. DEDICATED PC VIEWER

IRROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

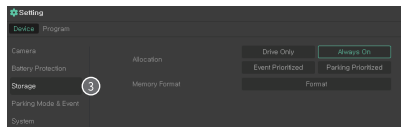
• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Device Settings 2



2 Battery Protection

- Voltage Cut Off: Automatically cuts off the power when the vehicle battery drops below the configured voltage to prevent battery discharge.
- Timer: Configures the duration for parking mode recording (powers off the device once the set time elapses).



3 Storage

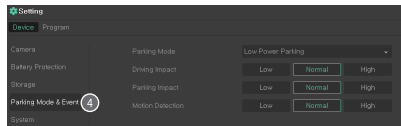
- Allocation: Selects how the memory card storage space is distributed among different recording types (e.g., Drive Only, Always On, Event Prioritized, Parking Prioritized).
- Memory Format: Erases and initializes all data stored on the microSD card.

28. DEDICATED PC VIEWER

IPROAD QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

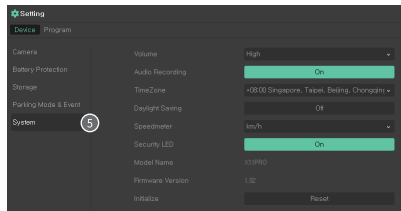
• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Device Settings 3



4 Parking Mode & Event

- Parking Mode: Selects the specific recording method used during parking (e.g., Low Power Parking).
- Sensitivity: Configures the G-sensor sensitivity thresholds for Driving Impact, Parking Impact, and Motion Detection across 3 levels (Low / Normal / High).



5 System

- Volume: Adjusts the volume level of the system voice guidance and alerts.
- Audio Recording: Toggles whether cabin audio is simultaneously recorded with the video (On/Off).
- TimeZone: Selects the standard time zone matching your current geographic location.
- Daylight Saving: Automatically adjusts the system clock for regions observing daylight saving changes (On/Off).
- Speedometer: Selects the preferred speed measurement unit (e.g., km/h, mph).
- Security LED: Toggles the operational status of the external front security LED notification (On/Off).
- Initialize: Resets all configuration parameters back to their factory default settings.

| 29. SYNCING WITH SMARTPHONE

IROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ IROAD DASH CAM

- Available on both Android and iOS devices.
- Please search for "IROAD DASH CAM" on the Google Play Store or Apple App Store to download the application.



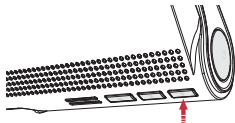
■ Before Use

- Live view and video playback via Wi-Fi connection may experience brief delays or buffering depending on your smartphone's condition or specifications.
- Do not handle or operate the product while driving, as it may cause a serious accident.
- When you hear the voice guidance saying "Registration standby mode," press the Wi-Fi button or icon on the device.
- Please ensure that the Wi-Fi reception signal is strong enough when updating the system.
Additionally, turn off any advanced smartphone Wi-Fi options (such as the "Smart Network Switch" feature) to ensure the connection remains stable throughout the update process.
- The Wi-Fi connection may drop temporarily depending on your surroundings or physical obstacles.
- Connecting to Wi-Fi from inside the vehicle is highly recommended for optimal connection stability.
- Saving frames for each recording type may differ slightly while connected via Wi-Fi.
The device will automatically recover to normal recording mode once disconnected.

| 30. HOW TO CONNECT (iOS)

IROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.



■ Smartphone App & Dashcam Connection Guide

1. Press the Wi-Fi registration button of the product to activate "Registration standby mode"

- To connect, briefly press the Wi-Fi registration button on the dashcam body. The synchronization will proceed following the voice guidance, "Registration standby mode."

2. Turn on Wi-Fi

- Activate the Wi-Fi feature in your smartphone's 'Settings' menu.

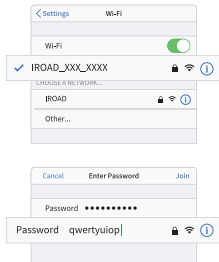
3. Select "IROAD_XXX_XXX" in the list

- Find and select the device's identification name (SSID) from the list of detected Wi-Fi networks.

4. Write the password [qwertyuiop] and Join

- Enter qwertyuiop in the password field and tap 'Join' in the top-right corner.

- (Note: The password consists of all letters in the second row of a standard keyboard layout.)



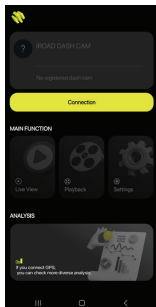
| 31. HOW TO CONNECT (Android)

IROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Smartphone App & Dashcam Connection Guide (Wi-Fi) 1

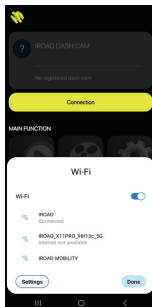
You can wirelessly pair your smartphone with the IROAD DASHCAM via the dedicated application to monitor live video feeds, play back recorded files, and configure system settings.



► STEP 1

Launch App & Start Connection

- Open the IROAD DASHCAM application on your smartphone and tap the prominent [Connection] button in the center of the main dashboard.



► STEP 2

Enable Wi-Fi & Access Settings

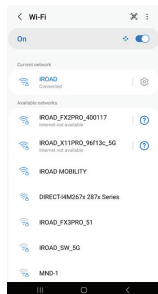
- When the Wi-Fi pop-up menu expands from the bottom, toggle the Wi-Fi switch to 'On' and tap the [Settings] button located at the bottom-left corner.

| 32. HOW TO CONNECT (Android)

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Smartphone App & Dashcam Connection Guide (Wi-Fi) 2

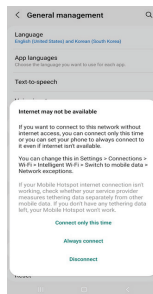
You can wirelessly pair your smartphone with the IROAD DASHCAM via the dedicated application to monitor live video feeds, play back recorded files, and configure system settings.



► STEP 3

Select the Dashcam Wi-Fi Network (SSID)

- The smartphone's system Wi-Fi directory will appear.
- Locate and select your specific dashcam model name from the available networks list.
(e.g., IROAD_X11PRO_XXXX)
- (※ If the device is not detected, briefly press the physical Wi-Fi registration button on the dashcam body to trigger 'Registration standby mode'.)



► STEP 4

Handle the "Internet may not be available" Prompt (Critical)

- Since the dashcam's Wi-Fi network serves as a direct local link rather than a cellular internet gateway, your smartphone may show a warning: "Internet may not be available."

| 33. HOW TO CONNECT (Android)

IROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Smartphone App & Dashcam Connection Guide (Wi-Fi) 3

You can wirelessly pair your smartphone with the IROAD DASHCAM via the dedicated application to monitor live video feeds, play back recorded files, and configure system settings.



► STEP 5

Synchronization Complete

- Once successfully paired, a yellow status bar reading

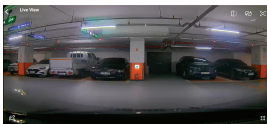
" Wi-Fi Connected" will illuminate at the top of the application dashboard.

| 34. APPLICATION

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ App Live View & ADAS Guideline Configuration Guide

By selecting the [Live View] menu while your smartphone is connected via Wi-Fi, you can monitor the live camera feed and utilize various layout tools and Advanced Driver Assistance Systems (ADAS) calibrations.



► Core Control Icons (Top Right)

- Horizontal Flip() : Reverses the horizontal orientation of the live feed(Mirror View mode).
- Front/Rear Channel Toggle() : The advanced video storage configuration sub-window will expand.
- Screen Capture() : Instantly snapshots the active live view sequence and saves it as an image file directly onto your smartphone storage.



► ADAS Guideline Calibration()

- Operation : Tap the 'Car-shaped icon' located at the bottom-left corner of the Live View screen.
- Result : The [ADAS Guideline] overlay configuration menu will activate to optimize calibration accuracy.
- Calibration Method : Manually align the on-screen reference lines with your vehicle's physical driving perspective.
- Vehicle Center (Green Vertical Dashed Line) : Align with the absolute center axis of your vehicle.
- Horizon (Green Horizontal Dashed Line) : Position it exactly over the actual road horizon line where the sky meets the ground.
- Bonnet (Yellow Horizontal Solid Line) : Align with the leading edge (the very front edge) of your vehicle's hood/bonnet.

| 35. APPLICATION

IFROAD
QUALIFIED VIDEO RECORDER OF VEHICLES **X11 PRO**

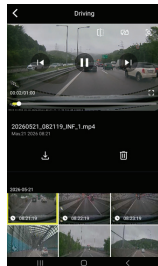
• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ List of recordings & Playback



► PLAYBACK LIST

- Separated Tabs for Recording Modes : Easily switch and check recorded video lists via top tabs: Driving, Event, Parking, Manual, and Storage
- Thumbnail List Display : Recorded videos are sorted in a thumbnail grid by date and time, allowing you to find the desired footage intuitively.

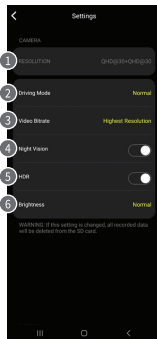


► VIDEO PLAYBACK & MANAGEMENT

- Video Controls : Use the on-screen controller to easily play/pause, or skip to the previous/next video.
- Status Display & Timeline : The current file name, recorded date, and time are displayed. Move to any playback point using the progress bar at the bottom.
- Download (📥) & Delete (🗑️) :
 - a. Tap the Download icon (📥) to save the video to your smartphone
 - b. Tap the Trash icon to instantly delete unwanted videos.
- Continuous Playback Convenience : A thumbnail list is displayed at the bottom of the playback screen, allowing you to quickly switch and view other videos.

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Settings



1. CAMERA SETTINGS

① **RESOLUTION** : Displays the dynamic recording configuration (e.g., Front QHD@30 + Rear QHD@30).

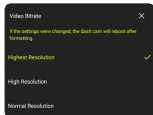
② **Driving Mode** : Configures the camera mechanics during standard driving.



- Normal: Continuous, gapless loops under standard frame rates.

- Hyperlapse: Compresses frame intervals to drastically save space on the micro SD card.

③ **Video Bitrate** : Dictates video processing file size and clarity thresholds.



Options

- Highest Resolution

- High Resolution

- Normal Resolution

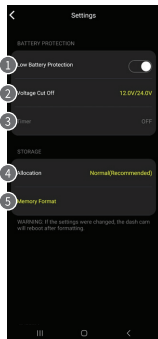
④ **Night Vision** : Toggle switch to brighten and clarify footage captured in low-light environments or underground parking lots.

⑤ **HDR (High Dynamic Range)** : Toggle switch to stabilize exposure levels, reducing headlight glare and improving license plate readability.

⑥ **Brightness** : Selects the baseline exposure rating for all integrated lenses.

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Settings

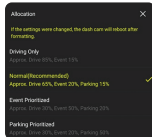


2. BATTERY PROTECTION

- 1 Low Battery Protection : Toggle ON to prevent vehicle battery drain while parked.
- 2 Voltage Cut Off : Set the threshold voltage level at which the system will automatically shut down to preserve vehicle power (e.g., 12.0V / 24.0V).
- 3 Timer : Sets a maximum countdown limit for parking mode operation.

3. STORAGE MANAGEMENT

- 4 Allocation (SD Card Partitioning) : Allocates sector ratios on your card depending on your monitoring preferences

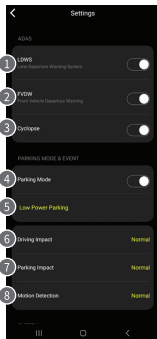


- Driving Only: Approx. Drive 85%, Event 15% (Disables parking mode).
- Normal (Recommended): Approx. Drive 65%, Event 20%, Parking 15%.
- Event Prioritized: Approx. Drive 30%, Event 50%, Parking 20%.
- Parking Prioritized: Approx. Drive 30%, Event 20%, Parking 50%.

- 5 Memory Format : Manually purges the storage drive to ensure file architecture integrity

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Settings



4. ADAS (Advanced Driver Assistance Systems)

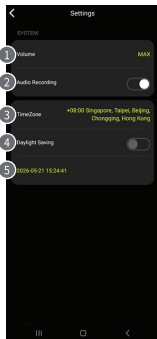
- 1 LDWS (Lane Departure Warning System) : Toggle to activate audible chimes that alert the driver if the vehicle begins drifting away from its active lane.
- 2 FVDW (Front Vehicle Departure Warning) : Toggle to enable a quick auditory and visual cue when the vehicle, stationary ahead, begins moving from a complete stop.
- 3 Cyclops : Toggle to receive real-time speed trap, safety enforcement zones, and photo enforcement alerts powered by localized GPS telemetry.

5. PARKING MODE & EVENT SETTINGS

- 4 Parking Mode : Enables or disables the monitoring infrastructure of the system while the vehicle's ignition is turned off.
- 5 Low Power Parking : Toggles the eco-saving parking mode, reducing electricity draw to the bare minimum to safely preserve vehicle battery vitality.
- 6 Driving Impact : Sets the G-sensor trigger threshold for registering impact events while operating the vehicle under driving conditions (e.g., Normal).
- 7 Parking Impact : Sets the baseline G-sensor sensitivity required to trigger an isolated impact recording event during parked duration (e.g., Normal).
- 8 Motion Detection : Calibrates how sensitively the optic lenses parse pixel fluctuations to record moving objects in front or behind the vehicle.
 - Operation : Tap the menu to expand the sensitivity sub-dialogue window at the bottom of the display.
 - Sensitivity Tiers : Select between Low / Normal / High based on your typical parking surroundings (e.g., highly populated lots vs. private garages) to prevent false-positive file locks.

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Settings



6. SYSTEM

1 Volume Control (Volume)

- Description : Calibrates the auditory feedback loops, system status chimes, and localized voice guidance alerts emitted from the dashcam speaker.
- Operation : Tap the [Volume] tile to expand the audio level selection dialogue window.
- Available Tiers : Select your preferred volume intensity from OFF (Mute) / 1 / 5 / MAX.

2 Audio Recording (Microphone Toggle)

- Description : Toggles whether the internal integrated microphone captures cabin acoustics and voices alongside the raw video data.
- Operation : Toggle the switch to ON to save dual-channel audio/video logs.
Toggle it OFF to run the system in a strictly silent video recording mode.

3 TimeZone Selection

- Description : Dictates the primary baseline timezone configuration for precise timestamp sorting.
- Operation : Tap the list to load global geographic offsets and select the specific standard coordinate region matching your local territory. (e.g., Shown as +08:00 Singapore, Taipei, Beijing, Chongqing, Hong Kong on the configuration menu).

4 Daylight Saving Time (Daylight Saving)

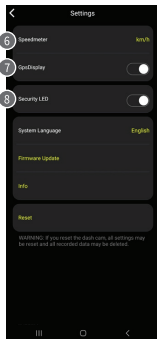
- Description : Manages seasonal time shifts for regional jurisdictions that actively practice Daylight Saving Time changes.
- Operation : Toggle ON to shift the baseline system clock forward by 1 hour.
Keep this switch toggled OFF if your driving jurisdiction does not follow seasonal clock offsets.

5 System Clock Verification & Sync

- The absolute base footer of the menu interface displays the real-time active system clock date and time telemetry registered by the internal processor.
- To re-calibrate values manually, use the dynamic drum wheel overlay to roll to the correct Year/Month/Day and Hour/Minute designations, then tap [OK] to commit the hardware values.

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Settings



6. SYSTEM

6 Speedometer Unit Configuration (Speedometer)

- Description : Modifies the primary mathematical metric used to display vehicle velocity logs across video file architectures.
- Operation : Tapping [Speedometer] opens a sub-dialogue choice frame at the foot of the screen.
- Available Tiers : Select either km/h (Kilometers per hour) or mph (Miles per hour) based on localized driving laws and personal preference.

7 GPS Data Overlay (GPSDisplay)

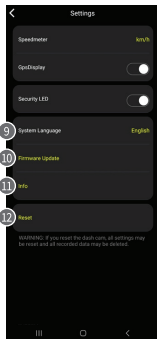
- Description : Toggles whether live coordinates, positioning tracking, and hardware speed metrics are stamped directly onto the video loops.
- Operation : Toggle the switch ON to overlay active GPS coordinate logs.
Toggle it OFF to run clean video data without environmental metadata stamps.

8 Security LED Control (Security LED)

- Description : Dictates the activity profile of the high-visibility physical LED chassis indicator bulbs located on the front casing.
- Operation : Toggle ON to leave the blinking security indicators active as a theft deterrent while parked or driving.
Toggle OFF to put the unit into a completely stealthy dark operation mode.

• Menu and function can be changed without prior notice by sudden firmware upgrade or product enhancement.

■ Settings



6. SYSTEM

9 System Language Allocation (System Language)

- Description : Changes the localized language script used for system menu headers, alert messaging, and integrated voice guidance outputs.
- Operation : Tapping the [System Language] list expands a global multi-language index dialogue.
- Supported Packages : You can select from a wide range of international language engines, including English, Italiano, 中文 (Cantonese/Mandarin), 日本語, Korean, Arabic, Polski, Русский, Türkçe, and Tiếng Việt, Espanol, Hebrew.

10 Firmware Updates (Firmware Update)

- Cross-references local build registries with cloud update servers via FOTA to flash updated operational software.

11 Device Profile (Info)

- Houses technical hardware metrics, target product registration codes, and current software architecture descriptors.

12 Hardware System Restore (Reset)

- Description : Purges customized parameters and returns the system core back to factory-fresh base configurations.
- Critical Warning : "WARNING: If you reset the dash cam, all settings may be reset and all recorded data may be deleted." Ensure all critical incident logs are safely backed up onto local phone drives before confirming a master hardware clear.

■ Device unable to power up due to cable issue

1. Check if the fuse cable is connected to the correct fuse.
2. Only use authentic fuse cables designed for IROAD devices.
3. When using a cigar jack to power up the device, the device will automatically turn off when the vehicle engine is turned off.
4. It is highly recommended to connect via a hardwire fuse cable in order to properly access and utilize Parking Mode.

■ Device keeps restarting due to memory card issue

1. Make sure the device is completely powered off before inserting or removing the micro SD memory card.
2. If the device prompts any error messages regarding the memory card, try reformatting the memory card, insert it back into the device, and test it again.
3. The user is required to insert the memory card into a dedicated memory card reader before plugging it into a PC.
4. Make sure to check whether your memory card reader is faulty or damaged.

■ The quality of recorded video is not clear

1. Check if there is any dust, smudges, or dirt on both the front and rear camera lenses.
2. If the vehicle windscreen (window) is heavily tinted, it may directly affect and degrade the overall video quality.
3. Extreme surrounding light conditions (e.g., severe backlight, low night illumination) may temporarily affect the video clarity.

■ No power after parking (Low Battery Protection - LBP)

1. Power will be automatically cut off to safeguard the car battery from draining when the vehicle voltage reaches the pre-set threshold.
2. The battery discharging period might get shortened prematurely depending on the physical condition of the car battery or a high frequency of motion recordings being triggered.

■ Unable to view playback recording

1. Recordings can only be properly played back using the official IROAD PC Viewer or the IROAD App on a smartphone.
2. Standard third-party media players may not fully support or decode the specific recording video format structure.
3. If errors persist during video recording sequences, please contact IROAD After-sale Service for further technical inquiries.

IROAD™