PANORAMA X 2



The PANORAMA X2 Blackbox will record and play Full-HD video files. We want you to get the most out of your new premium dual-channel solution. You can use the built-in HD LCD to monitor and play back files stored in the SDHC memory card slots. This allows for quick access to view videos as needed.

Features Include

- 1. Automatic recording
- 2. 3.5" Capacitive TOUCHSCREEN LCD Display
- 3. 1920x1080pixel 30fps FULL HD recording and playback Dual Channel Front & Rear (2CH Blackbox!)
- Records audio from within the car
- 5. 16-128GB Micro-SD memory cards (>32GB if formatted as FAT32 in PC)
- 6. Record up to 6 hours if using a 32GB memory card (Larger than 32GB also supported, see page 27)
- 7. Built-in G-Sensor
- 8. Motion detection (pre-buffered events are captured moments before)
- 9. Parking mode (Low voltage cut-off, power control).
- For Playback (maps with Optional GPS logger) use the following software

http://RegistratorViewer.com http://DashCamViewer.com http://VideoLan.org

*Important Note

The information contained in this guide is subject to change. For more detailed information, visit our web site at http://www.powerucc.com



Product Contents		6
Blackbox Main Features	Auto Recording Loop Recording 3.3.5"TOUCH LCD 4.2CH F/R FULL HD 1080p Motion Detection Playback 7. G-Sensor 8. Parking mode Power control	8
Warnings	Notification Interference Compatibility Service & Repair Blackbox Features	9 11 11 11 11 11
Main Features	1. Main Features Front View (Lens) Back View (LCD) Left (AV-out) Right (Memory) Top (Power, Rear camera, GPS) 2. Power 3. Line (3-wire) cable	12 12 12 12 12 12 12 13
Operation	Preparations Turning the Power On, Off Power saving	14 14 14 14
Menu	1. Preview	15

Table of Contents (

Main page		16
Parking mode	Parking G-Sensor Parking time Motion detection Power control	18
Веер	On/Off	18
Format	Front memory / Rear memory	18
File playback	File List/play	19
Recording Menu		20
Rec minute	1, 2, 3, 5min	
Driving G-sensor	High, Middle, Low, Off	
Movie size	Front/Rear 1080p, 720p, 720p60fps	21
Setup	Date & Time Language GPS Zone LCD Standby AV-out (NTSC/PAL) Speaker Rear View Camera About, Firmware Upgrade	23 23 23 23 23 23 23 23
GPS	External receiver Options	25
Playing recorded files	26 Self-Diagnosis&Precautions	27
Specifications 30 Warranty		

Main Features

Main Features	Q'
Blackbox (Front FULL HD)	1
Rear camera (FULL HD)	1
SD Card	2
Power	1
Manual	1

Full HD Blackbox





















*Important note

The components shown are subject to change

1. Automatic Recording

Starts recording automatically when you start the car. Stops recording and auto-saves after power is turned off

Continuous Recording (not recommended)

The following chart shows the maximum continuous recording time. Micro-SD MEMORY Card

4GB - approximately 45 minutes

8GB - approximately 2 hours

16GB - approximately 3 hours

32GB - approximately 6 hours

2. Loop Saving (recommended)

Once the card capacity is reached, the oldest MP4 file segment will be deleted and over-written with the newest one

3. 3.5" Touch LCD

You can check the recording screen while driving* and parking recording. (*where local laws allow for video up front)

- 4. Front/Rear Full-HD 1920 x 1080 pixels 30fps (frames per second)
- -Records 30 frames per second at 1920 x 1080 (Full-HD)
- -Recording gap between file segments is approximately 0.1 second.



5. Motion Detection

The X2 automatically switches to standby mode when you park or stop the car. The X2 starts recording when motion is detected.

6. MPEG MP4

The X2 records video in the MPEG H.264 MP4 format.

7. G-sensor

If the G-sensor is triggered, the current file will be moved into a protected folder and will no longer be overwritten until the card is formated.

IMPORTANT NOTE: Formatting the memory card WILL DELETE ALL FILES including protected files. Save and back-up all files prior to formatting the memory card

8. Parking Mode Power Control (Low Voltage Cut-Off)

Select a constant voltage that matches the battery of your vehicle. The battery discharge prevention system is meant to prevent a complete discharge of the vehicle battery. When the vehicle battery voltage is below the X2 set voltage, the X2 will power off. This way you can be sure you always have plenty of power remaining to start your vehicle

9. Dual Slot System

The X2 contains two separate memory card slots. A Micro-SD card must be inserted in each of 2 slots to record both front and rear cameras. The top slot is for the rear camera, and is marked with the letter "R". The bottom slot is for the front camera and is marked with the letter "F"



Avoid placement AND use of the X2 in excessive heat or in direct sunlight. If subjected to these conditions, allow the unit to cool down before operating.



Do not insert foreign objects into unit or use near flammable substances. Doing so can lead to damage and void the warranty.



Handle the X2 with care, do not toss or drop the Blackbox. This can cause damage to the circuits and/or screen. Accidental damage is not covered by warranty.



Do not place the Blackbox in a humid, foggy, or smoke-filled area.

These conditions may damage the X2.

Warnings!



Do not hit the Blackbox with solid objects. Never place the Blackbox in close proximity to other electronic devices or magnetic sources.



Do not attempt to disassemble or alter any part of the equipment.

We make no warranties for damages resulting from disassembly.



The power adaptor is designed for exclusive use with this equipment.

Do not use other products.

(Damage resulting from using other than the supplied accessories will void your warranty)



Securely connect the Blackbox with the supplied cable.

Notice

- 1.Use only supplied power adaptor.
- (Damages resulting from the use of other power sources will void your warranty)
- 2.Do not allow flammable substances near device.
- Strong sunlight or direct bright lights may result in dark recordings. Select a proper location when you install the Blackbox cameras (40% sky - 60% road).

Interference and compatibility

- Do not place the Blackbox near other electronic devices It may cause the image to be distorted.
- If the Blackbox is installed near other GPS devices, it may cause interference with X2 GPS reception.
- (2) Do not connect the power adaptor to multi-cigar jacks or other shared devices, because it may lead to malfunction of video quality.
- Please be careful when you install the Blackbox.

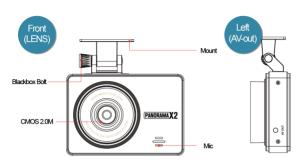
Repair

Only authorized service centers should perform system maintenance and repairs. We are not responsible for data loss resulting from malfunction of defective micro-SD memory cards.

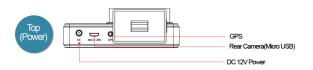
Disposal

If you ever dispose of your Blackbox, discard properly according to the recycling laws of your country, state, and local governments.



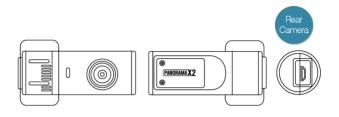


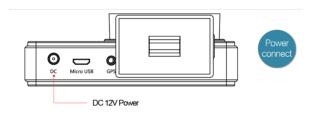


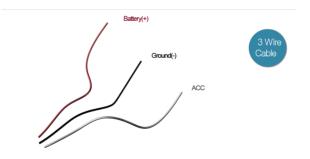


Main Features(Power connect)











1. Providing Power

- Connecting to the Power
- (1) Connect the blackbox to the power by using the supplied power adaptor.
 - *Use a 12V power adaptor.

The Blackbox uses 12V-24V DC as a power source.

(2) Please use a qualified automobile electrician to connect the unit to the vehicle power and to ensure that the wires and connections allow safe driving with no obstructions.

2. Turning the Power On, Off and Power Saving Function

(1) Turning the Power On

When you start a car, the BlackBox is turned on automatically.

Recording starts in approximately in 5~15sec.

The indicator light (LED) on the upper-right side is off when the Blackbox is turned off.

(2) Turning the Power Off

To turn the Blackbox off, you must stop the car & turn your ignition off, or remove the Power cable.

3. Power Saving Function

 -You can turn the LCD monitor on to watch recordings or turn the LCD monitor off during recording.



Preview screen









(a) Front/Rear Camera Select







(c) Main page







□ Parking Mode

P G-sensor sensitivity, Motion detection, Parking time, Power control, Rearview camera

☐ Beep On/Off

This is for the alarm caused by the G-sensor

□ Format

Formats the micro-SD card(s)

□ Play

Real-time playback of recorded files

■ Menu

Record minute (Unit:min), D G-sensor sensitivity, Movie size, Setup



Go to the outside camera image

Select, Go to the previous screen

Parking mode



☐ P G-Sensor sensitivity

High, Middle, Low, Off

□ Parking time

6 hours, 12 hours, 18 hours, 24 hours, Off

(Off = Continous, no time-out)

■ Motion detection

High, Middle, Low, Off

□ Power control

11.8V, 12.1V, 12.4V, 13.5V, Off, Drive Only

Off = Continous, no voltage cut-off Drive Only = Never Record while ignition is off, X2 will power off until engine is started

□ Rearview camera

Camera On/Off





1. P G-Sensor sensitivity



2. Parking time



3. Motion detect



4. Power control



B. Beep



C. Format





- The recorded files are stored separately in front / rear memory cards
- Files are stored in three different folders, depending on the nature of the file, for each Micro-SD memory card.



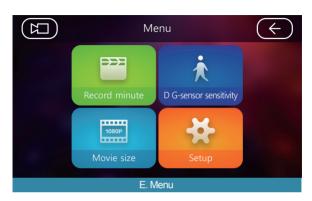
- N (Nomal file folder)
 (Regular location of the file to be saved when driving)
- E (Impact Detection folder) (Location of the G-Sensor, motion detection trigged files, or manual event button)
 - P (Parking watched folder) (Location of the file is store in parking surveillance)



- Play the files in each folder, search
- File can include views, quick flip, delete again, and then must retrieve important files

Download files to a separate computer periodically, clean up the memory by deleting files or formatting.





1. Record minute

1 min, 2 min, 3 min, 5 min

2. Driving G-Sensor sensitivity

High, Middle, Low, Off

3. Movie size

Front camera: 1080p 30fps, 720p 30fps, 720p 60fps Rear camera: 1080p 30fps, 720p 30fps, 720p 60fps

4. Setup

Date & time, Language, GPS Zone, LCD Standby, AVout, Speaker, Rear Camera, About (Firmware Upgrade).



1. Record minute



2. Driving G-Sensor sensitivity



3. Movie size







- Date & time

Set date & time

- Language

English, 日本語, 한국어, Русский, 繁体中文

- GPS Zone

Set the local time zone (Add Summer Time / Daylight Savings Time)

- LCD Standby

LCD standby time set

- AV-out (NTSC & PAL)

TV type. NTSC (USA), PAL (EU)

- Speaker

Volume Set

- Rear view camera

Rear camera (Parking) On/Off

- About(Information)

Information, Firmware version, Firmware Upgrade



1. Date&time



2. Language



3. GPS Zone



4. LCD Standby



5. AV-out(NTSC&PAL)



6. Speaker







Rear view camera

Working On = Parking Mode Enabled for Rear Camera Working Off = Parking Mode Disabled for Rear Camera



About

Firmware Upgrade

 Copy the update file to the root directory in each of the memory front / rear cards, press the About menu "Upgrade" button to perform firmware upgrade.

*Important Note

Please consult your service center or distributor about firmware information and upgrades.

*Ensure the vehicle is started and do not disconnect or turn the power off during the firmware upgrade process!!!!"

GPS (External receiver Option)

- 1. You can capture speed and location information by the signals received from GPS satellites.
- 2. Information differences may occur due to signal delay.
- 3. You can check the GPS information on the left bottom of the screen.
- 4. GPS receiver is an optional accessory purchased separately.









z:

GPS

N: 37.317492 Y: 126.569746 61.75km/h

Rear 1080p 30fps

x: y:

Urgent record

2014-05-16 00:12:34

2014-09/16 11:31:07 Rear 1080p 30fps
N: 37.317492 Y: 126.569746 61.75km/n x: -0.063 y: -0.063 z: +0.969

Urgent record



Playing the recorded file

- * The recorded files can be played back on your computer.
- 1. The MP4 file type is H.264 codec
- Recommended players are available at: VideoLan.org, RegistratorViewer.com, DashCamViewer.com, & GoPro Studio http://shop.gopro.com/softwareandapp/gopro-studio/GoPro-Studio.html
- GoPro Studio will allow adjustments such as brightness level, chroma, removing after images, removing block and removing noise when playing video.
- The files can also be viewed on other programs where the H.264 codec is supported.
- *This will appear when you connect a memory card

FILE FOLDER



*For smooth viewing of recorded files, save files directly to computer or use of USB 3.0 ports and SDXC card reader is recommended.

Self-Diagnosis and Safety Precaution



Q1: How can I check the firmware?

A1: Check the About section on the main home screen

You can check the available firmware version number(s) on our website, where you will find continuing support.

O2: Can I reinstall the Blackbox in another car and use it?

A2: Yes, the X2 Blackbox may be moved between vehicles. use existing mount or new mount as needed.

Q3: How can I format the micro-SD memory cards?

A3: You can format the micro-SD memory cards in setup mode in your Blackbox.

Please format the micro-SD memory cards in your Blackbox

* The X2 will recognize pre-formatted memory cards.

- * You can format a memory card in setup mode.
- * It is recommended that < 32GB micro-SD memory cards be formatted in the blackbox. > 32GB micro-SD memory cards should be pre-foratted FAT32 in your PC for optimal results.

Q4: I installed the blackbox. Is it possible to control the angle?

A4: The joint can move 90 degrees. Adjustments are limited.

Q5: Where is a suitable location to install the Blackbox?

A5: Please install it without blocking the driver's view.

The Blackbox was designed for a car, but you can also use it at home or in a store or in a business location. (It is recommended to install the blackbox in a location you can watch the LCD monitor.)

Q6: How do I manually start and stop the X2 recording?

A6: You will see see a red box with a dotted outline at the bottom of the screen. Engine running - Touching anywhere in this area will toggle start/stop recording. It is important to stop the recording before ejecting the microSD cards. BAT(parking mode) This area will power off the X2



Self-Diagnosis and Safety Precaution

Q6: How can I check that the Blackbox is working properly?

A6: You will see the recording screen after the car is started.

The Blackbox starts recording automatically after your vehicle starts. You can also check the red indicator in the upper left hand comer on the screen.

Q7: The power or external camera wire is not long enough!

A7: The power wire is 3.5 meter (11.5 feet), the external camera wire is 6 meter (19.5 feet) please choose a better routing & mounting location for optimal installation.

Q8: micro-SD memory cards do not work.

A8: Please contact the distributor or authorized service center.

If you bought the SD memory cards yourself, contact the store.

Q9: Blackbox does not turn off when car is off

A9: Please unplug from the socket, which may continue supplying power. Only use the included power adaptor when you install it in your vehicle by yourself. If you connect it to a different voltage source, the result may be a broken unit or dead car battery.

* In this case, you must pay for the repair.

*Do not cut off the cigar jack.

* Use only included cigar jack.

Q10: Traffic lights blink or fade in recorded file

A10: This is a common occurrence in devices containing lens.

Self-Diagnosis and Safety Precaution

Q11: When the Blackbox housing is broken in an accident, can it be repaired?

A11: In this case, we cannot repair the Blackbox because of damage to the other components.

Safety Precaution

- * When the X2 is connected to cigar jack in extreme hot conditions, please be sure to power off when not in use.
- *If the X2 is connected directly to the car battery, ensure the car has the ability to start after extended time. To do this, raise the voltage in power control settings.
- * If the X2 is connected directly to car battery, for safety, turn off unit before starting and power on after the car has started.
- *If the temperature in the car exceeds 75 C (167 F), allow the unit to cool down before operating to avoid damage.
- *Formatting of memory cards on a regular basis (weekly) offers best performance. Remember to save important files and back up to a computer prior to formatting!
- *In the case where the X2 Blackbox cannot record because the memory card is not recognized, format the memory card in the Setup Menu. (During recording, the RED indicator is on)

Named	Specification		
Memory type	Front/Rear Micro-SD card, 4~128GB		
Display	Display 3.5" TOUCH LCD		
Power cable	DC 12V		
DC Adaptor Input: Output:	DC 12~24V DC 12V		
Mic	Built-in microphone		
A/V interface	TV-Out		
Impact sensor	G-sensor Bosch 3G Sensor		
Camera Support Temperature	SONY CMOS 2.0M -10 C ~ 75 C (14 F to 167 F)		
Camera angle	Front 120 ⁰ , Rear 120 ⁰		
File System	FAT32		
File format	MP4		
Codec	H.264 MPEG-4		
Component Video Signal	NTSC/PAL		
Resolution	Front/Rear 1920x1080@30fps (NTSC)		
	Record Format		
Recording Format	MP4		
Special Features	One Button Recording(Power On)		
Time Stamp	Timer saving		
GPS	External receiver Option		

*Special function

This manual is subject to change depending on the function of the additions or changes.

For more detailed information about firmware or product visit our web site. Set the function appropriate for the environment.

Warranty

Our warranty for this product is limited to the rule of consumer compensation for damage.

- Please attach this warranty when you need to repair.
- This warranty is invalid if the date of purchase or store you purchased from has been removed.
- If you do not have this warranty, please attach the proof of purchase in the form of a bill of sale or receipted invoice.

Customer		Contents	Remarks
Model Name			
The date			
Warranty	One Year		
Store			
Name			
Phone			
Address			

This warranty	does not	cover for	free as	follows

- □ Damage due to act of God, fire, earthquake
- $\hfill\square$ Damage due to disassemble or to alter any part of the product
- Modifications
- Damaged cigar jack adaptor
- Damage due to connection to improper power adaptor
- □ Damage due to drop during moving
- □ Without this warranty
- □ Consumables
- Damage due to putting the something into the blackbox or cleaning with toxic substance
- □ Component combustion due to using for a long time
- *Recommend daily use is 12hours.
- *Warranty of memory is 3 months



COMPANY: POWERUCC

PANORAMA X 2





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