



PRISM
Bluetooth® Action Camera

SENA

www.sena.com

User's Guide

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FCC Compliance Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

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

IMPORTANT NOTE:

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

"This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device."

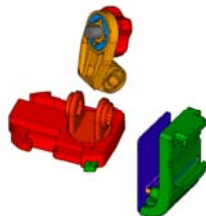
1. PACKAGE CONTENTS



- **Waterproof Housing**



-
- **Li-Ion Rechargeable Battery**



- **Helmet Clamp Kit**
- **QRM System for Motorcycles**
- **USB Power & Data Cable**


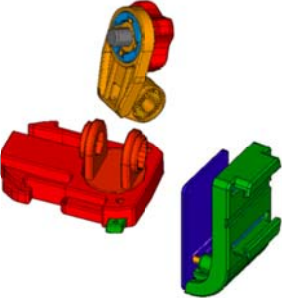


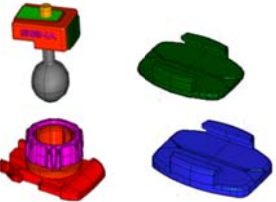




-
- **Lens Cap**



- **Cigar Jack Charger**

2. ACCESSORIES

<p>QRM System for Motorcycles</p>	 <p>QRM Surface Mount</p>	 <p>Helmet Clamp Kit</p>
 <p>Dual Suction Mount Kit</p>	 <p>Handlebar Mount Kit</p>	 <p>Flat & Curved Adhesive Mounts</p>
<p>Composite Cable</p>	<p>Combo Cable</p>	<p>Microphone Cable</p>
<p>Li-Ion Rechargeable Battery</p>	 <p>USB Power & Data Cable</p>	 <p>World Wide USB Wall Charger</p>

3. GETTING STARTED

3.1. Opening and Closing the Back Door

1. Slide the small lock near the bottom of the back door to the left.

2. Slide the back door of the camera upwards and unhinge the back door.
3. To close the back door of the camera, rotate the back door so that it is firmly against the camera.
4. Slide the back door downwards so that the top portion locks into place.
5. Slide the small lock near the bottom to the right to complete locking the back door on the camera.

3.2. Memory Card (not included in the package)

1. Insert a memory card into the SD card slot and push down until it clicks.
2. To remove the card, push on the SD card until you hear a click. The card slot is spring loaded and the card will slide from the slot.

Note:

The camera is compatible with Micro SD, SDHC or SDXC cards up to 32GB. We recommend Class 10 cards for recording HD video and system stability.

3.3. Battery

1. Insert the battery into the camera until it locks into place then close the back door of the camera.
2. Remove the battery lock by placing your thumb in the indentation and sliding it to the right. Allow the battery to pop out.

3. The battery icon displayed in the camera's LCD will flash when the battery drops below 10%. If recording is occurring when battery reaches 0%, the camera will save the file and power off.

4. To charge the battery, connect the camera to a computer or USB power supply (such as the wall charger or cigarette charger). The LCD shows solid red while the battery is charging, and it will turn off when the battery is fully charged.

Note:

You can use all the function of the camera while charging the battery.

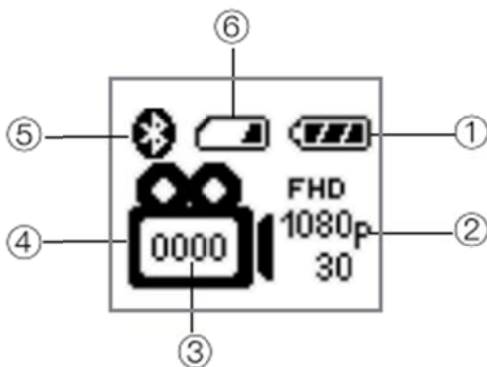
3.4. Powering On and Off

Function	Button	Duration	LED	Camera LCD
Power On	Shot Button S + Mode Button M	1 sec	Last mode's color	Last mode
Power Off	Shot Button S + Mode Button M	1 sec	Off	Off
Auto Power Off			Off	Off

Note:

If you keep the camera not operated or in standby mode in 5 minutes, it automatically powers off.

3.5. Camera LCD Menu Screen





- 1. Battery life
- 2. Resolution / fps
- 3. Counter
- 4. Camera mode
- 5. Bluetooth
- 6. Memory

3.6. Voice Prompt

If you are paired with Bluetooth headset, you can be guided by voice prompts. The voice prompts will help you audibly understand which mode you are in and the operation you have performed while operating the camera. For the details of how to pair the camera with Bluetooth headset, please refer to the section, “10.3 Bluetooth Settings”.

4. CAMERA MODES AND MENU SYSTEM

4.1. Button Operations







Button	Press	Press and hold
Mode Button 	Change camera mode, go to the next menu item during menu navigation	Enter *Quick Setting Exit Quick Setting
Shot Button 	Perform video or photo shot or select the menu item	Take a photo shot during video recording

Note:

* Quick settings is a quick and easy way to enter the settings menu for each mode that you are currently in.

4.2. Camera Modes

The camera has several modes. To cycle through the modes, press the Mode Button. The Camera modes are identified by the LED color.

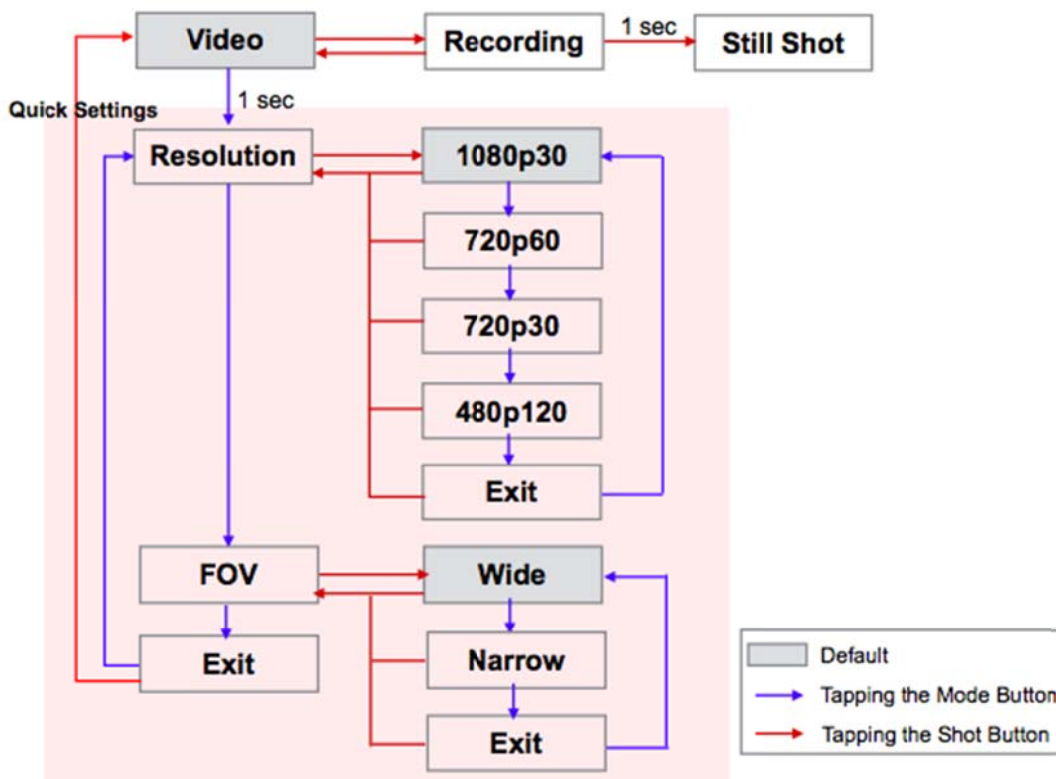
Icon	Mode	Application	LED Color
	Video	Record video	Red
	Single Shot	Capture a single photo	Blue
	Burst Shot	Capture up to 10 photos in one second	Green
	Timelapse	Capture a series of photos at timed intervals	Cyan
	*Playback	Playback video and photos.	???
	Settings	Adjust camera settings	Yellow

Note:
 Playback mode appears only if camera is connected to a TV or Sena LCD Pack™ (optional accessory, sold separately).

5. VIDEO MODE

5.1. Video Mode Operations

Video Mode		
Start/Stop recording	Press Shot Button	
Take a still photo	Press and hold Shot Button	
Cycle to Single Shot Mode	Press Mode Button	
Video Quick Settings Menu	Press and hold Mode Button	
	- Press Mode Button to cycle through Resolutions	Resolutions
		1080p 30fps
		720p 60fps
		720p 30fps
		480p 120 fps
	- Press Shot Button to select resolution	Exit to Quick Settings Menu
	- Press Mode Button to cycle through Narrow or Wide field of view	Field of View
		Wide
		Narrow
	- Press Shot Button to select Narrow or Wide field of view	Exit to Quick Settings Menu
	Exit to Video Mode	



Note:

The camera automatically stops recording when the memory card is full or the battery is out of power. Your video will be saved before the camera powers off.

5.2. Video Mode Settings

You can change the resolution setting at the video settings, and the frame rates are fixed along with certain resolutions. When you select 480P (120fps) 720P (60fps), you cannot take a still shot during video recording.

Resolution	1080P
	720P
	480P
Frame Rate	30FPS (1080P, 720P)
	60FPS (720P)
	120FPS (480P)
Field of View	Wide (137°)
	Narrow (90°)

5.3. Video Recording Time

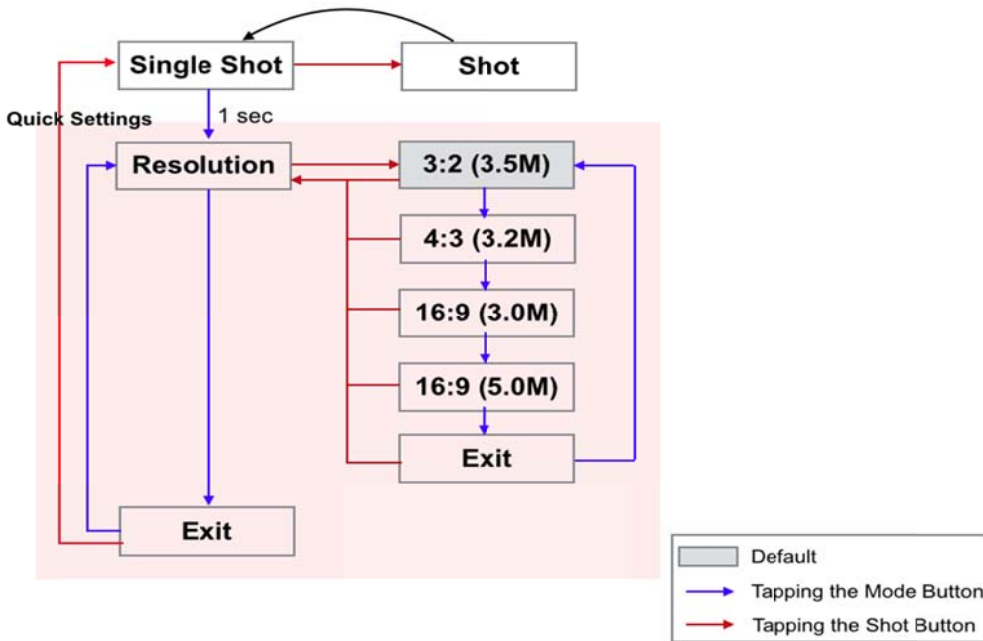
Below is a table of approximate video recording times to card size in specific mode.

	1080P / 30FPS	720P / 30FPS	480P / 120FPS
1GB	9 min	12 min	15 min
2GB	18 min	24 min	30 min
4GB	36 min	48 min	1 h
8GB	1 h 12 min	1 h 36 min	2 h
16GB	2 h 24 min	3 h 12 min	4 h
32GB	4 h 48 min	6 h 24 min	8 h

6. SINGLE SHOT MODE

6.1. Single Shot Mode Operations

Single Shot Mode	
Take a single photo shot	Press Shot Button
Cycle to Burst Shot Mode	Press Mode Button
Single Shot Quick Settings Menu	Press and hold Mode Button
	- Press Mode Button to cycle through Resolutions
	- Press Shot Button to select resolution
	Exit to Single Shot Mode
	Resolutions
	3:2 (3.5M)
	4:3 (3.2M)
	16:9 (3M)
	16:9 (5M)
	Exit to Quick Settings Menu



6.2. Single Shot Mode Settings

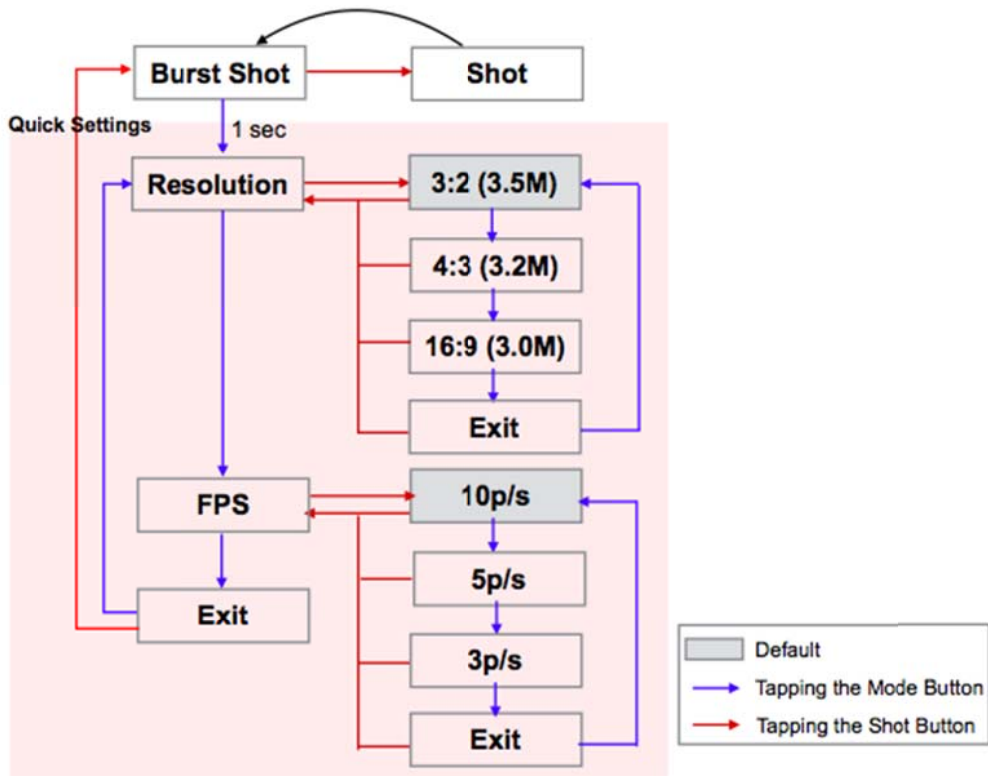
You can change the photo resolution at the single shot settings, and the aspect of ratios are fixed along with the resolutions.

Resolution	Aspect of Ratio
3MP	3:2
3.2MP	4:3
3.5MP	16:9
5MP	16:9

7. BURST SHOT MODE

7.1. Burst Shot Mode Operations

Burst Shot Mode		
Take a burst photo shot	Press Shot Button	
Cycle to Timelapse Mode	Press Mode Button	
Burst Shot Quick Settings Menu	Press and hold Mode Button	
	- Press Mode Button to cycle through Resolutions	Resolutions
		3:2 (3.5M)
		4:3 (3.2M)
	- Press Shot Button to select resolution	16:9 (3.0M)
		16:9 (5.0M)
		Exit to Quick Settings Menu
	- Press Mode Button to cycle through Frames per second	Frames per second
		10 p/s
	- Press Shot Button to select Frames per second	5 p/s
		3 p/s
		Exit to Quick Settings Menu
	Exit to Burst Shot Mode	



7.2. Burst Shot Mode Settings

You can change the photo resolution at the burst shot settings, and the aspect ratios are fixed along with the resolutions.

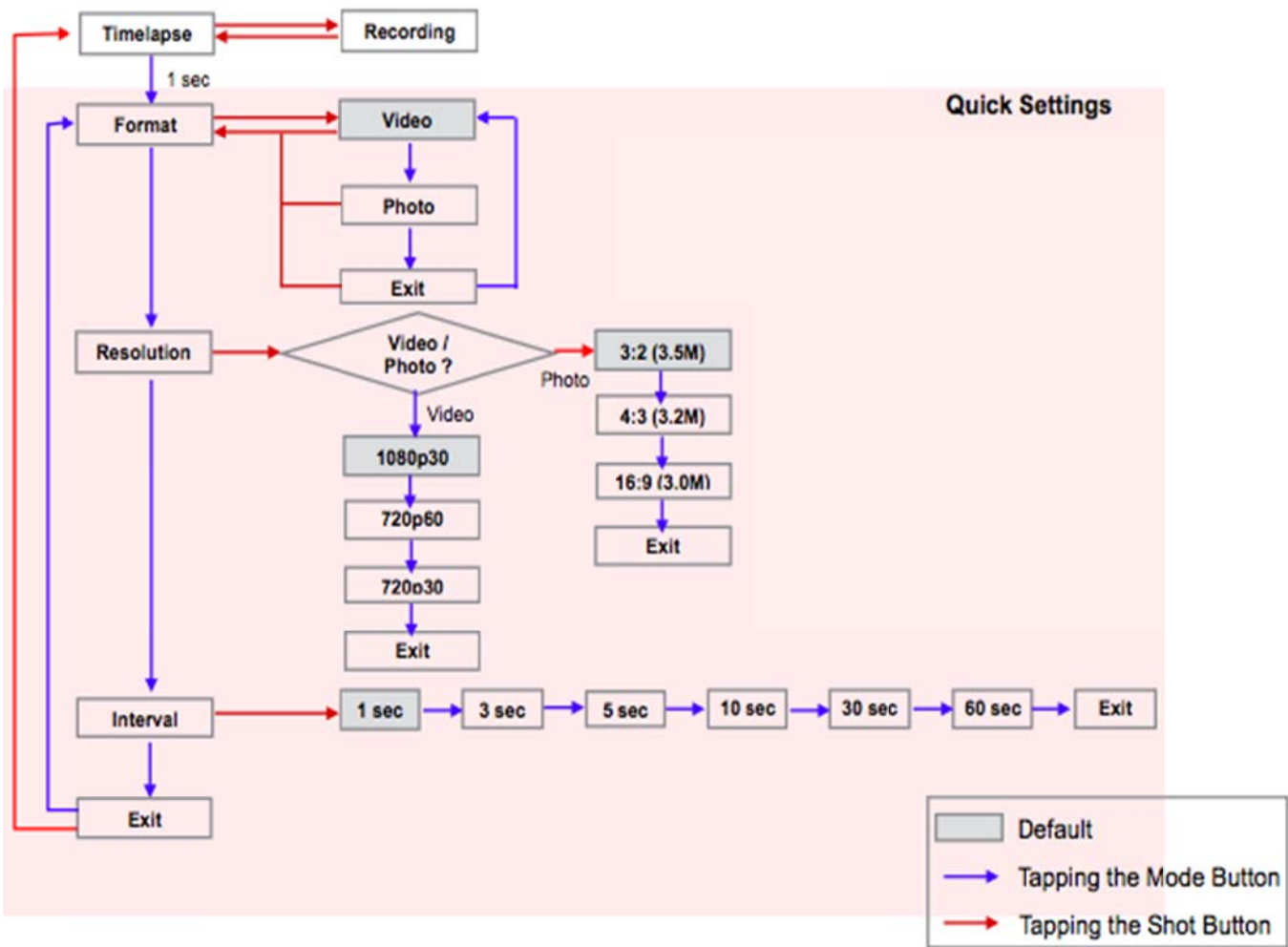
Resolution	Aspect Ratio
3MP	3:2
3.2MP	4:3
3.5MP	16:9
Capture Rate	
10/s	
5/s	
3/s	

8. TIMELAPSE MODE

8.1. Timelapse Mode Operations

Timelapse Mode	
Start/Stop recording	Press Shot Button
Cycle to Playback Mode (if LCD Pack is attached)	Press Mode Button
Timelapse Quick Settings Menu	Press and hold Mode Button
	- Press Mode Button to cycle through Format
	- Press Shot Button to select recording format
	- Press Mode Button to cycle through Resolution
	- Press Shot Button to select resolution.
	- Press Mode Button to cycle through Photo Resolution
	- Press Shot Button to select frames per second
	- Press Mode Button to cycle through time Interval
	- Press Shot Button to select time interval
	Exit to Timelapse Mode

Format
Video
Photo
Exit to Quick Settings Menu
Video Resolution
1080p 30fps
720p 60fps
720p 30fps
Exit to Quick Settings Menu
Photo Resolution
3:2 (3.5M)
4:3 (3.2M)
16:9 (3.0M)
Exit to Quick Settings Menu
Interval
1 sec
3 sec.
5 sec.
10 sec.
30 sec.
60 sec.
Exit to Quick Settings Menu



Timelapse Mode Settings



Timelapse mode takes a video (or a series of photos) at 1, 3, 5, 10, 30 or 60 second intervals.

Type	Resolution
Video	1080P/30FPS
	720P/60FPS
	720P/30FPS
Photo	3.5MP (3:2)
	3.2MP (4:3)
	3MP (16:9)
Sequence Interval	(좌측 병합)
	1s
	3s
	5s
	10s
	30s
	60s

9. PLAYBACK

Playback video and photos by connecting the camera to a TV (requires micro HDMI, composite or combo cable, sold separately). You can also playback video and photos on the Sena LCD Pack™(optional accessory, sold separately).

9.1. Videos and Photos (TV OUT, HDMI)

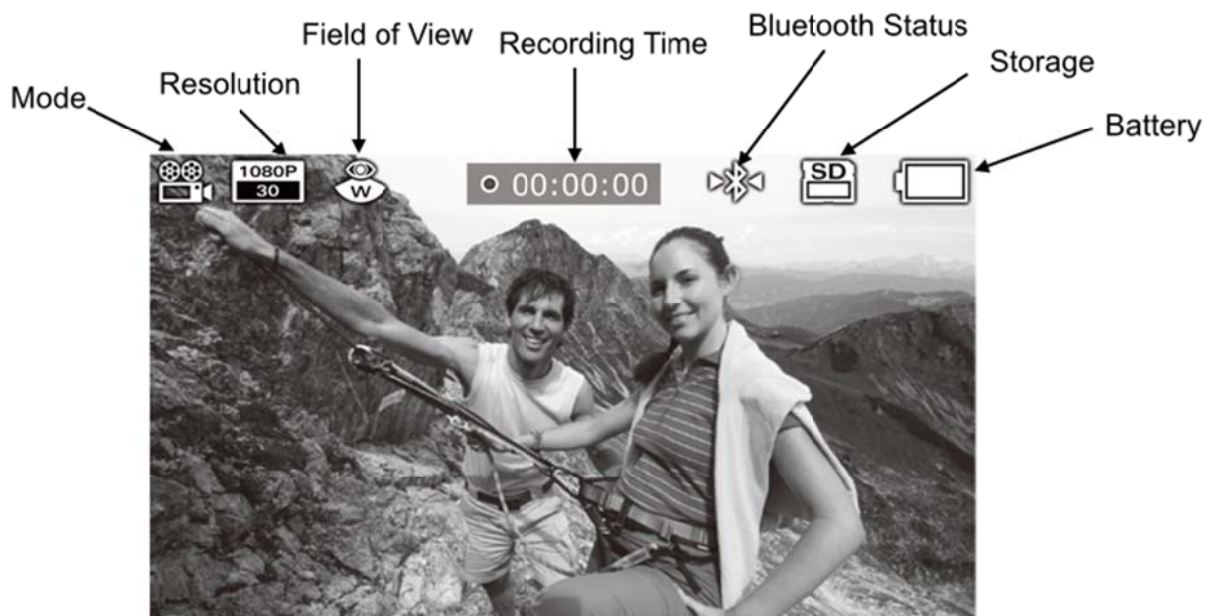


To browse videos and photos:

1. Plug the camera into a TV/HDTV with a micro HDMI cable, composite cable or combo cable (optional accessories).
2. Turn the camera on
3. On your camera, select Playback mode.
4. The camera shows thumbnail previews of all videos and photos on the SD card.

5. While in a thumbnail preview, use the Mode Button to cycle through the thumbnails. Press the Shot Button to view.
6. Use **⏮** and **⏭** to navigate backward and forward to see more media files on your memory card.
7. Depending on whether you are viewing videos or photos, different control options will appear. Use the Mode Button and the Shot Button to navigate.

Playback Mode	
Move Control Icon	Press the Mode Button
Select Control Icon	Press the Shot Button
Control Menu	Play
	Stop
	Navigate forward
	Navigate backward
	Trash
	Exit Playback



Note:
Burst photos and timelapse files will display the first photo in the series. To view all photos in a series, use the Mode Button to select view and press the Shot Button.

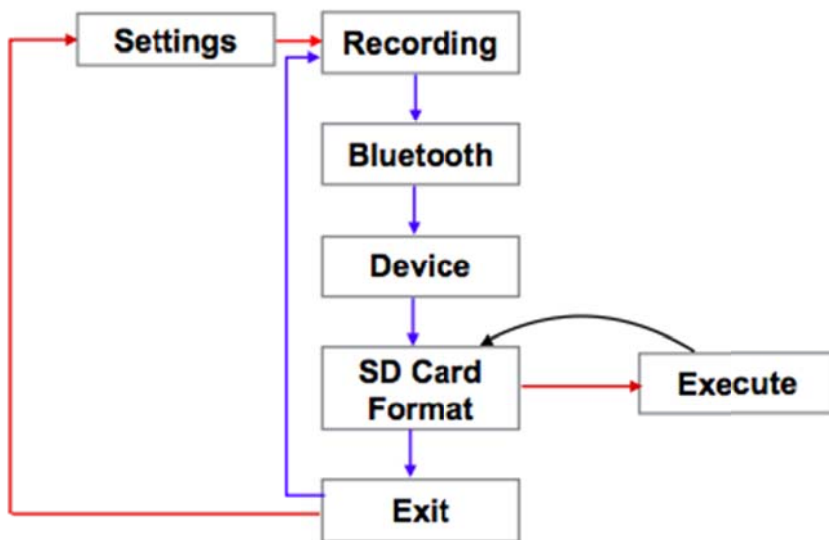
9.2. Playback on Sena LCD Pack™ (sold separately)

Playback using the Sena LCD Pack™ follows a similar process/procedure as described with a few slight variations. See the Sena LCD Pack™ User's Guide for more information.

10. CAMERA SETTINGS

10.1. Camera Settings Operations

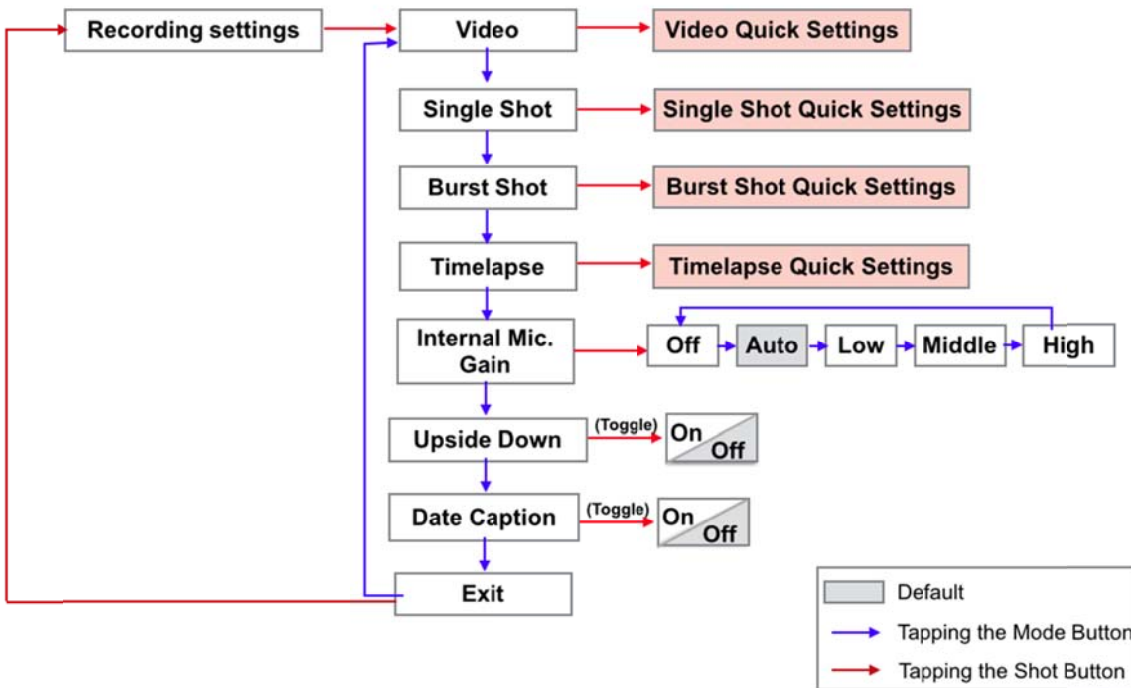
Settings		
Cycle through [Settings]	Press Mode Button	
Select [Settings]	Press Shot Button	
	Recording	
	Bluetooth	
	Device	
	SD Card Format	Confirm Format (Mode button to cancel)
	Exit Settings	



10.2. Recording Settings

In recording settings, video, single shot, burst shot and timelapse settings are the same as the quick settings at each mode.

Settings-Recording Settings		
Cycle through [Recording Settings]	Press Mode Button	
Select [Recording Settings]	Press Shot Button	
	Video	Video Quick Settings Menu
	Single Shot	Single Shot Quick Settings
	Burst Shot	Burst Shot Quick Settings
	Time-lapse	Timelapse Quick Settings
	Internal Mic. Gain	Off
		Auto
		Low
		Middle
		High
	Upside Down	On
		Off
	Date Caption	On
		Off
	Exit Recording Settings	



10.2.1. Internal Mic Gain



You can adjust the internal microphone gain of the camera. If the gain is high, then the camera will acquire more audio from the microphone of the camera.

Factory Default	Auto
Level Adjustment	Press the Mode Button (Auto / low / middle / high / off)
Application	Press the Shot Button

10.2.2. Upside Down



If you need to mount the camera upside down and still wish the files to appear upright, then you need to turn it on. This setting eliminates the need to flip your video or photos during editing.

Factory Default	Off
Off	Camera right side up
On	Camera upside down
Enable / Disable	Press the Shot Button

10.2.3. Date Caption



You can record or hide date caption while video recording. Date caption is not recorded during the video recording of timelapse.

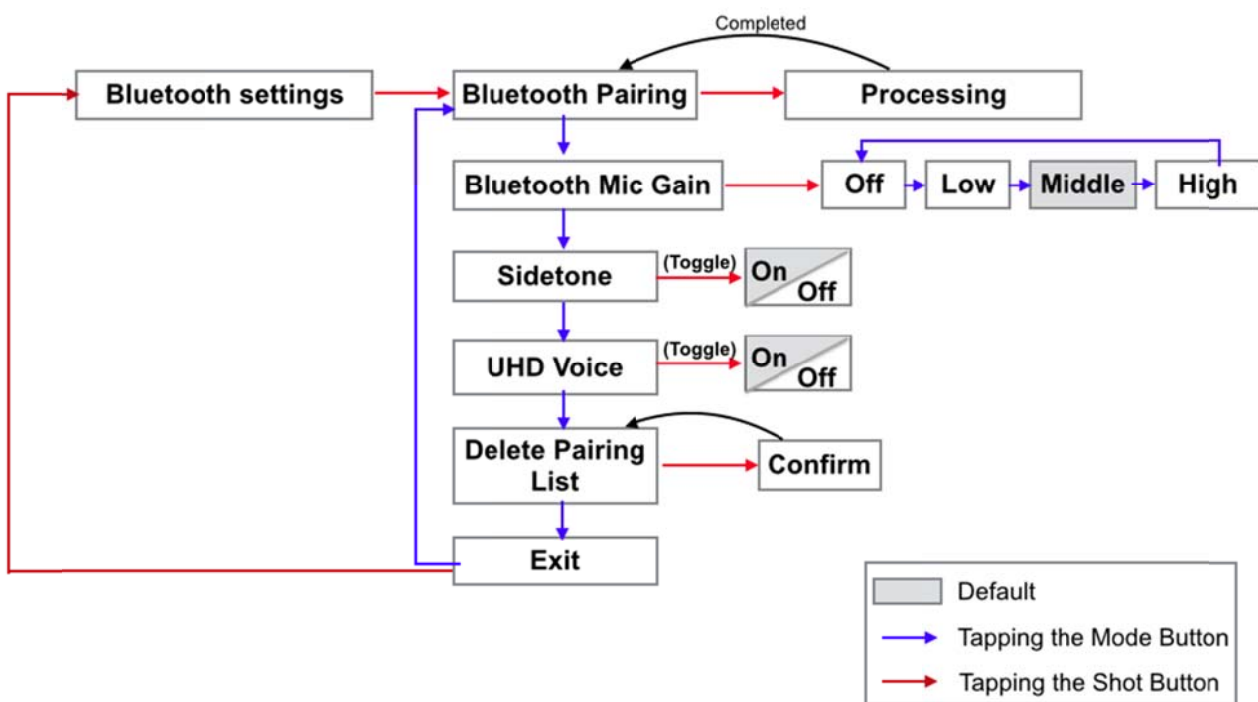
Factory Default	Off
Off	Hide date caption
On	Record date caption
Enable / Disable	Press the Shot Button

10.3. Bluetooth Settings



The Bluetooth settings can make the camera connect your Bluetooth headset to overlay Bluetooth audio with video. The camera supports full control and setting capability for Sena Bluetooth headsets, while it supports recording start/stop for non-Sena Bluetooth headsets.

Settings-Bluetooth Settings		
Cycle through [Bluetooth Settings]	Press Mode Button	
Select [Bluetooth Settings]	Press Shot Button	
	Bluetooth Pairing	Pairing...
	Bluetooth Mic. Gain	Off Low Middle High
	Sidetone	On Off
	UHD Voice	On Off
	Delete Pairing List	Confirm (Mode button to cancel)
	Exit Bluetooth Settings	



10.3.1. Bluetooth Pairing

1. Enter the Bluetooth pairing in the Bluetooth settings.
2. Set your Bluetooth headset to pairing mode.
3. The pairing is completed.

10.3.2. Bluetooth Mic. Gain

You can adjust the Bluetooth microphone gain of the Bluetooth headsets or microphones. If the gain is high, then the camera will acquire more audio from the microphone of the Bluetooth headsets.

Factory Default	middle
Level Adjustment	Press the Mode Button (middle / high / off / low)
Application	Press the Shot Button

10.3.3. Sidetone 

When using a Sena headset, sidetone is supported; If this feature is enabled, you can hear what you are speaking during video recording.

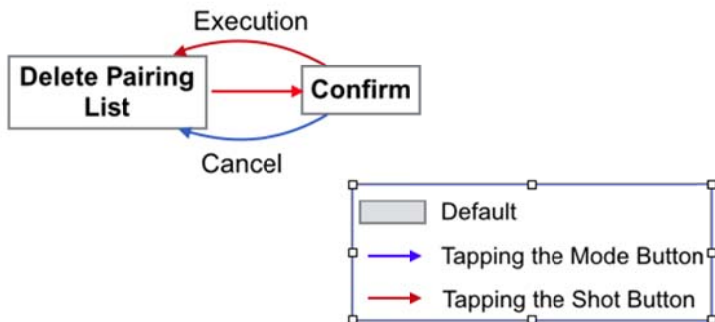
Factory Default	On
Enable / Disable	Press the Shot Button

10.3.4. Ultra HD Voice Recording 

Factory Default	On
Off	Normal voice recording
On	Ultra HD Voice Recording™
Enable / Disable	Press the Shot Button

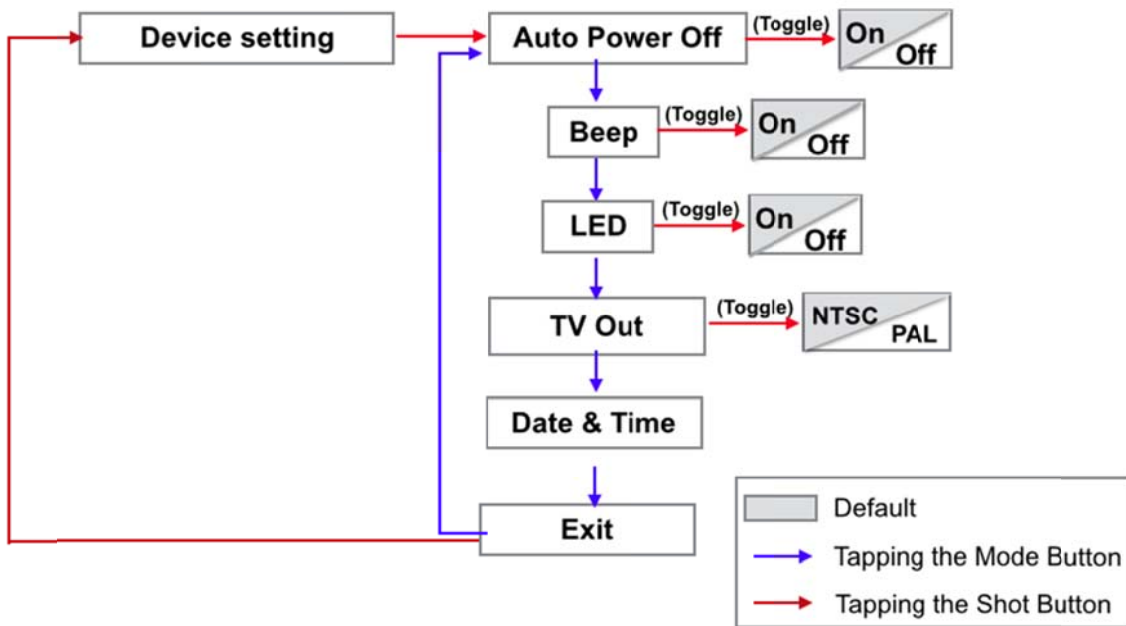
Delete Pairing List 

You may delete all Bluetooth pairing list of the camera. Then you lost all your pairing devices information.



10.4. Device Setting 

Settings-Device Settings		
Cycle through [Device Settings]	Press Mode Button	
Select [Device Settings]	Press Shot Button	
Auto Power Off	On	
	Off	
Beep	On	
	Off	
LED	On	
	Off	
TV Out	NTSC	
	PAL	
Time Set	Year	- Shot button to select Year and cycle through digits for year - Mode button to cycle through numbers (1, 2, 3...)
	Month	- Shot button to select Month and cycle through digits for month - Mode button to cycle through numbers (1, 2, 3...)
	Day	- Shot button to select Day and cycle through digits for day - Mode button to cycle through numbers (1, 2, 3...)
	Hour	- Shot button to select Hour and cycle through digits for hour - Mode button to cycle through numbers (1, 2, 3...)
	Minute	- Shot button to select Minute and cycle through digits for minute - Mode button to cycle through numbers (1, 2, 3...)
	Exit to Device Settings	
	Confirm (Mode button to cancel)	
Factory Reset		
Firmware Version		
Exit Device Settings		



10.4.1. Auto power off 

The camera can be configured to automatically power off after a specific period of inactivity (when no videos or photos are being taken and no buttons have been pressed). This feature does not work while charging the camera.

Factory Default	On
Idle Time	5 min
Application	Press the Shot Button

10.4.2. Beep 

You can turn off or on the beep sound of the camera during operations.

Factory Default	On
Enable / Disable	Press the Shot Button

10.4.3. LED 

You can turn off or on the status LED.

Factory Default	On
Enable / Disable	Press the Shot Button

10.4.4. TV out (NTSC / PAL) 

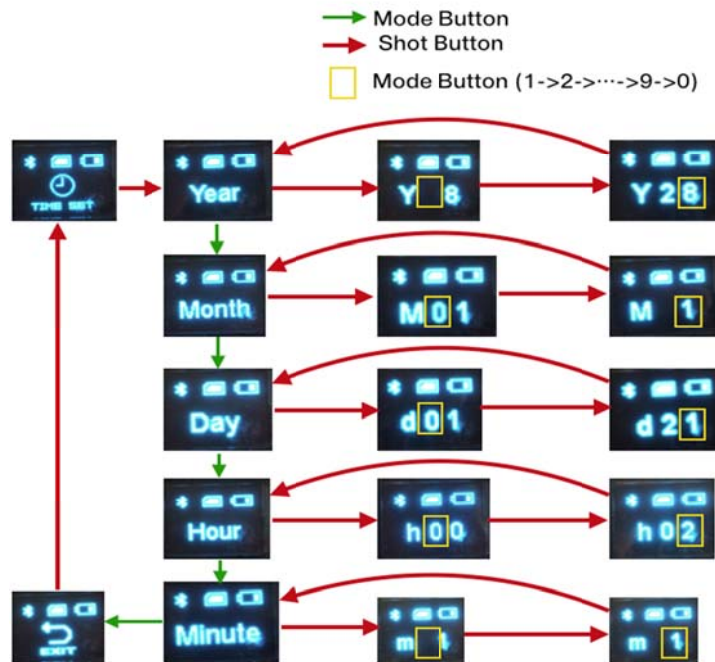
The NTSC and PAL settings govern video recording frame rate and playback when viewing video on TV/HDTV. Select NTSC when viewing a TV/HDTV in North America. Select PAL if viewing on a PAL TV/HDTV (most televisions outside of North America) or if viewing on a PAL TV/HDTV in any region.

Factory Default	NTSC
Mode Adjustment	Press the Mode Button (NTSC / PAL)
Application	Press the Shot Button

10.4.5. Time set 

Set the camera clock to ensure video and photo files are saved with the correct date and time. Time can be set by Year, Month, Hour, and Minute,

To change Year/Month/Day/Time:



10.4.6. Factory Reset 

It will clear all the settings to factory default.

10.4.7. Device info 

You can see the current firmware version on your camera.

10.4.8. SD Card Formatting 

11. Formatting will remove all files from a memory card. When using a new card for the first time, always format the memory card using the camera.

11. BLUETOOTH AUDIO RECORDING

With the use of Bluetooth headsets, the camera allows users to add their voice to the video on-the-fly using the Bluetooth Audio Recording™ feature. Being able to narrate the video during recording not only provides users a whole new experience but also reduces the need for follow-up audio editing providing real-time audio experiences.

11.1. Settings of Bluetooth Audio Recording

There are several parameters that affect the overall performance of Bluetooth Audio Recording. Based on the understanding of how they are correlated, you need to set up the parameters accordingly.

Parameter	Value	Menu
Internal Mic Gain	Amount of audio from camera microphone	Auto-Low-Mid-High-None
Bluetooth Mic Gain	Amount of audio from microphone of Bluetooth headsets	Low-Mid-High-None
Bluetooth Audio Recording Mode	Audio recording mode of camera	UHD Voice/Normal/Noise Control

Factory Default setup is as follows.

Internal Mic Gain =Auto

Bluetooth Mic Gain =Middle

Ultra HD Voice Recording =On

Ultra HD Voice Recording™ is provided for Sena Bluetooth headsets ; it enables you to record your voice in CD-quality. It is available only when a single Sena headset is connected with the camera. It is not supported in conference intercom mode. When you are using a Sena headset, you may switch to Normal Mode pr Noise Control Mode according to your applications. If you use a non-Sena Bluetooth headset, Normal Voice Recording Mode is the only mode that you may use.

Bluetooth	Internal Mic Gain	Bluetooth Mic Gain	Bluetooth Audio Mode	Application
Sena Headsets	None	Low/Mid/High	Ultra HD	- CD-quality Bluetooth voice recording without ambient sound
			Normal	- Normal quality Bluetooth voice recording without ambient sound
			Noise Control	- Normal quality Bluetooth voice recording without ambient sound - Advanced Noise Control™
	Auto/Low/Mid/High	Low/Mid/High	Ultra HD	- CD-quality Bluetooth voice recording with ambient sound
			Normal	- Normal quality Bluetooth voice recording with ambient sound
			Noise Control	- Normal quality Bluetooth voice recording with ambient sound - Advanced Noise Control™
Non-Sena Headsets	None	Low/Mid/High	-	- Audio recording only from built-in microphone
	Auto/Low/Mid/High	Low/Mid/High	Normal	- Normal quality Bluetooth voice recording without ambient sound - Normal quality Bluetooth voice recording with ambient sound
		None	-	- Audio recording only from built-in microphone

11.2. Bluetooth Audio Recording with Sena Headsets

11.2.1. Bluetooth Pairing

To record your voice to the camera with Bluetooth headset, you should pair the camera with a Bluetooth headset (or microphone). This pairing operation is only required once for each Bluetooth headset. The camera will remain paired with the headsets after the first pairing process is completed and automatically connected to the paired headsets again within the connection range.

Camera	Settings → Bluetooth Settings → Bluetooth Pairing
Sena Headset	Intercom Pairing (Jog Dial 5 sec or Center Button 5 sec)
Status LED	Camera: Bluetooth Pairing Completed?
(상단 셀 병합)	Headset: LED flashes blue.

1. Perform Bluetooth pairing from the camera from the menu operation of Settings → Bluetooth → Bluetooth Pairing.
2. Enter into the intercom pairing mode of the headset. Then the headset is paired automatically with the camera. You do not need to press any buttons for pairing. For details on intercom pairing, refer to the user's guide of Sena headset.
3. When the headset LED flashes blue, the pairing is completed. Then you will hear the voice prompt saying "PRISM connected" from the connected Sena headset.

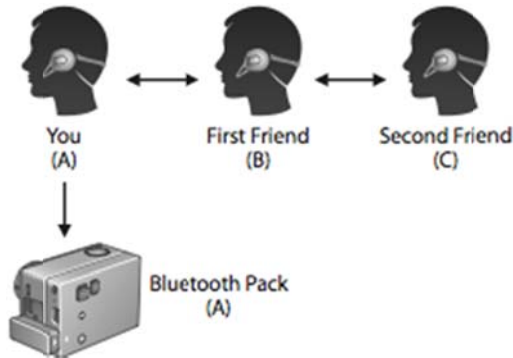
11.2.2. Bluetooth Connection

You can connect the camera with Sena headsets and transfer the conversations to the camera by establishing intercom

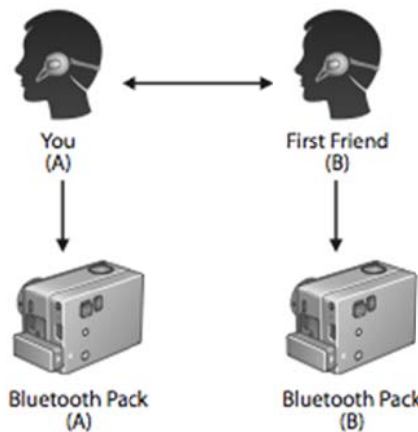
connections at the same time.

1. Turn on the paired Sena headset, and then the camera is automatically connected to the paired headsets. The audio channel between the camera and the Sena headset is open.
2. Start recording on the camera by appropriate button operation.

You can record intercom conversation among two or three intercom friends who use Sena headsets. For details on intercom conversation, refer to the user's guide of Sena headset.



camera Connection for intercom



Dual camera Connection for Sound Sharing

11.3. Bluetooth Audio Recording with Non-Sena Headsets

11.3.1. Bluetooth Pairing

Camera	Settings → Bluetooth → Bluetooth Pairing
Non-Sena Headset	HFP Pairing

1. Perform Bluetooth pairing from the camera from the menu operation of Settings → Bluetooth → Bluetooth Pairing.

2. Enter into the handsfree pairing mode of the non-Sena headset. For details on handsfree pairing, refer to the user's guide of the corresponding headset.
3. If the pairing is completed, you will hear the voice prompt saying "PRISM connected" from the connected corresponding headset.

Note:

If you cannot pair the non-Sena Bluetooth headset, delete all pairing list and pair the one again.

11.3.2. Bluetooth Connection

You can connect the camera with non-Sena headsets and transfer your voice to the camera.

1. Turn on the paired non-Sena headset, and then the camera is automatically connected to the headset. The audio channel between the camera and the non-Sena headset is open.
2. Start recording on the camera by appropriate button operation.

Note:

You can open or close the audio channel between the camera and the headset by pressing the Pairing Button once on the camera or making a phone call on the headset. Please refer to the headset user's guide for more information.

12. Bluetooth Remote Control

The camera can be handsfree by the remote control capability from Bluetooth headsets. The wireless remote control helps to use less energy and allows for more versatile control through the audio/video remote control profile (AVRCP) of Sena's Bluetooth products

12.1. Remote Control by Sena Headsets**12.1.1. Jog Dial Type Products**

Type	Button	Operation
* Power On	Phone Button	Triple tap
* Power Off	Phone Button	Triple tap
Mode Change	Jog Dial	Rotate while pressing
Menu Move	Jog Dial	Rotate while pressing
Menu Select	Jog Dial	Rotate while pressing
Video Start	Jog Dial	Press and hold for 1s

Video Stop	Jog Dial	Press and hold for 1 s
Single Shot	Jog Dial	Press and hold for 1 s
Burst Shot	Jog Dial	Press and hold for 1 s
Timelapse (video) Start	Jog Dial	Press and hold for 1 s
Timelapse (video) Stop	Jog Dial	Press and hold for 1 s
Still Shot (video mode)	Phone Button	Tap
Playback - Format Select	Phone Button	Tap
Playback - Move Control Icon	Jog Dial	Press and hold for 1 s
Playback - Select Control Icon	Jog Dial	Press and hold for 1 s

Note:

If you powered off the camera using camera button control, you can power on the camera only by using camera button. You cannot power on or off the camera using Bluetooth Remote Control.

12.1.2. Three-button Type Products

Type	Button	Operation
Power On	(-) Button	Press and hold for 3 s
Power Off	(-) Button	Press and hold for 3 s
Mode Change	(+) & (-) Buttons	Press and hold for 1 s
Menu Move	(+) button	Press and hold for 1 s
Menu Select	Center Button	Press and hold for 1 s
Video Start	Center Button	Press and hold for 1 s
Video Stop	Center Button	Press and hold for 1 s
Single Shot	Center Button	Press and hold for 1 s
Burst Shot	Center Button	Press and hold for 1 s
Timelapse (video) Start	Center Button	Press and hold for 1 s
Timelapse (video) Stop	Center Button	Press and hold for 1 s
Still Shot (video mode)	Center Button	Press and hold for 3 s
Playback - Format Select	Center Button	Press and hold for 3 s

Playback - Move Control Icon	Center Button	Press and hold for 1 s
Playback - Select Control Icon	Center Button	Press and hold for 1 s

12.2. Remote Control by Non-Sena Headsets

Type	Operation
Video Start	Dial (or redial)
Video Stop	Ending a call
Single Shot	Dial (or redial)
Burst Shot	Dial (or redial)
Timelapse (video) Start	Dial (or redial)
Timelapse (video) Stop	Ending a call

13. CAMERA CONNECTION

Recorded video and photos can be copied to a computer using the micro-USB cable provided or—if your computer has an appropriate card reader—directly from the Micro SD card.

13.1. Connecting to a Windows PC by USB Cable

1. Connect the camera to your PC using the USB cable. The camera LCD will display a USB logo.
2. Your PC's operating system may be setup to open new devices automatically, if not, open My Computer. **Your PC's operating system may be setup to open connected devices automatically, if not, open My Computer.**
3. Your PC should recognize the camera as a removable device—look for PRISM card in the list of all devices and open.
4. Open the DCIM folder, inside you will find the 100MEDIA folder, which contains all the files saved on the memory card by the camera. If there are a very large numbers of files, there will be multiple folders (100MEDIA, 101MEDIA, etc).
5. Copy the desired files to your PC.

13.2. Connecting to a Mac by USB Cable

1. Connect the camera to your Mac using the USB cable. The camera LCD will display a USB logo.

2. Your Mac's operating system may be setup to open new devices automatically, if not, open a new Finder window. **Your Mac's operating system may be setup to open connected devices automatically, if not, open a new Finder window.**
3. Your Mac should recognize the camera as a removable device—look for PRISM card in the list of devices and open.
4. Open the DCIM folder—inside, you will find the 100MEDIA folder which contains all the files saved on the memory card by the camera! If there are a very large numbers of files, there will be multiple folders (100MEDIA, 101MEDIA, etc).
5. Copy the desired files to your Mac.

13.3. Connecting the Camera to a TV

1. Connect it to your TV using a Mini HDMI type combo cable (not included in the basic package).
2. You need to set up TV Out parameter in Device Settings when you hook it up with AV cable.

14. CAMERA HOUSING

To secure camera in housing:

1. Using an index finger, press down and slide the buckle release button to slide the latch forward. While pressing down on the buckle release button with an index finger, use the thumb to open the buckle.
2. Unhook the buckle from the case to open the backdoor.
3. Insert the camera into the waterproof housing.
4. Close the backdoor and hook the buckle into it. Press down on the latch firmly until the latch clicks shut.

[\(pictures\)](#)

To remove camera from housing:

1. Using an index finger, press down and slide the buckle release button to slide the latch forward. While pressing down on the buckle release button with an index finger, use the thumb to open the buckle.
2. Unhook the buckle from the case to open the backdoor.
3. Remove the camera from the housing.

[\(pictures\)](#)

Note:

- Before using the waterproof housing in a wet environment, ensure that it is completely sealed.
- Do not open the case where it would be exposed to dust or sand, and be sure to remove any foreign objects from any part of the case before closing the case. Failure to observe these precautions could result in damage to the

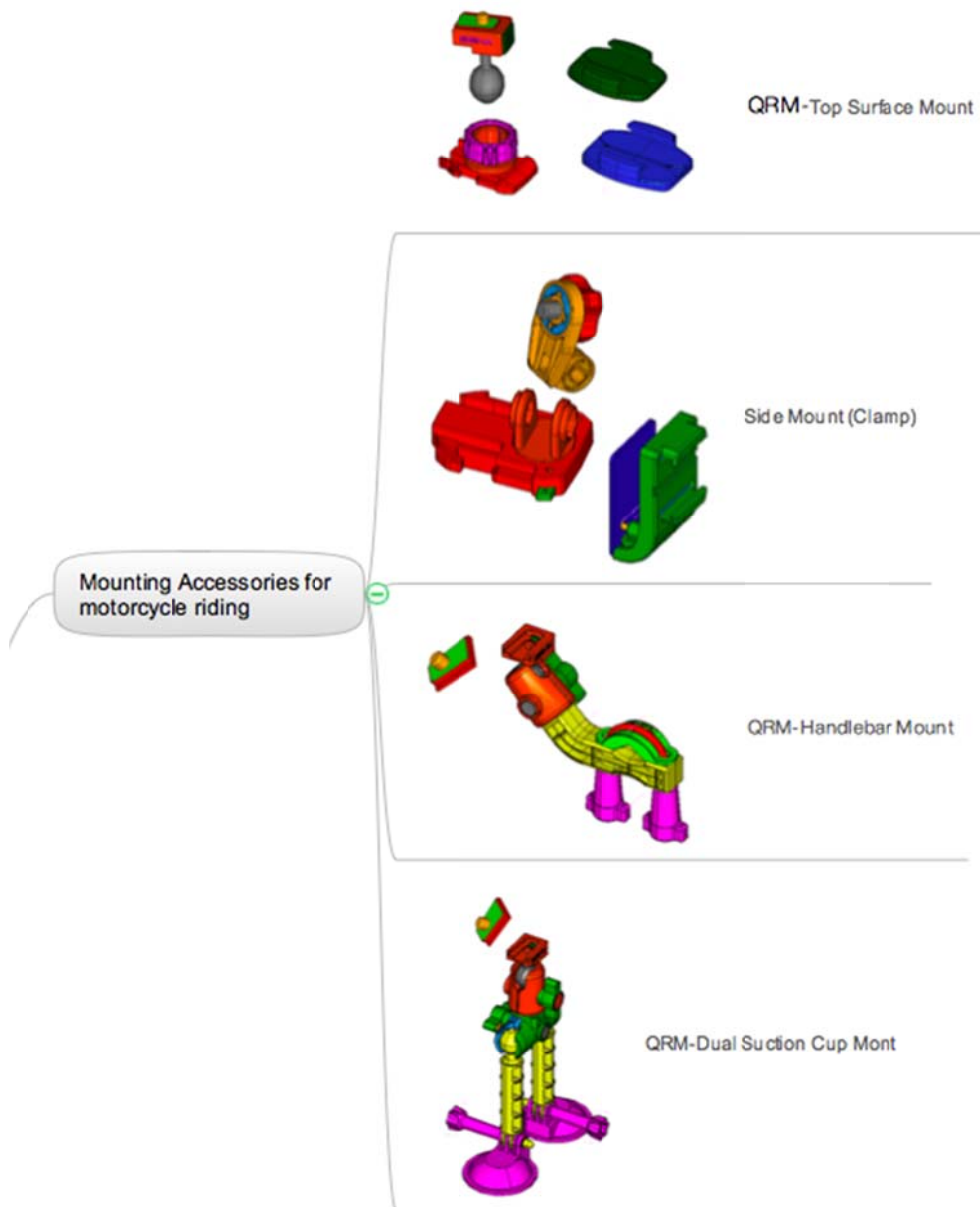
camera.

15. CAMERA MOUNTING

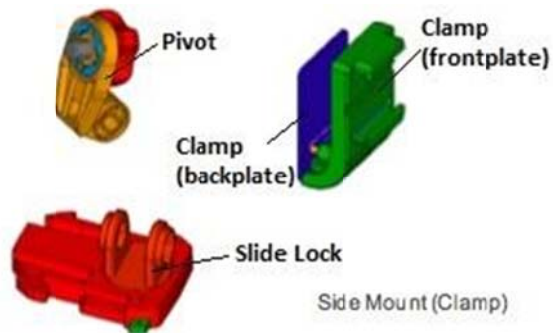
15.1. QRM™ (Quick Release Mount) System for Motorcycle

The Quick Release Mount™ System provide fast and secure ways to switch the camera mount system on the motorcycle. There are three different QRM types: Top Surface Mount, Handlebar Mount, and Dual Suction Cup Mount. Once you set up the system at a desired angle, you can then mount and release the camera without using any screws or bolts or changing the camera angle.

Camera Mounting System		
QRM (Quick Release Mount) for Motorcycles	Top Surface Mount	Top Surface Mount can be used on a flat surface such as a side case or a curved surface such as a helmet.
	Handlebar Mount	Handlebar Mount can be used on handlebar size between 7/8"- 1 1/2".
	Dual Suction Cup Mount	Dual Suction Cup Mount is best used on gas tank, windshield and case.
Side Clamp Mount		Side Clamp Mount does not use QRM but it has a pivot arm for easy adjustment.
		Side Clamp Mount is best used for side of the helmet.



15.2. Side Clamp Mount



The Side Clamp Mount enables you to mount the camera at the side of your helmet. You can adjust the camera angle by rotating the joints. When you are not recording, you may simply separate the slide lock from the clamp. This mount allows you to record in the driver's point of view.

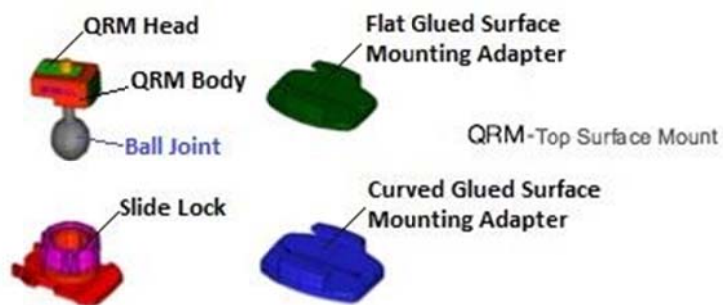
15.2.1. Side Clamp Mount Components

Pivot	The pivot contains the standard 1/4" camera mount bolt on which you fasten the camera.
Slide Lock	The slide lock contains a 360° rotating joint.
Helmet Clamp	The helmet clamp can be installed at the side of the helmet. It takes in the slide lock.

15.2.2. Side Clamp Mount Installation

1. Insert the backplate of the clamp unit between the internal padding and external shell of the helmet.
2. Bring the clamps together and tighten them using the two screws and the enclosed allen wrench.
3. Slide the slide lock into the clamp until you hear a click.
4. Adjust the camera angles of the slide lock and the pivot and lock them.
5. Mount the camera on the pivot using the 1/4" camera mount bolt.

15.3. QRM Top Surface Mount



The QRM Top Surface Mount enables you to mount your camera on a flat or curved surface such as windshield, gas tank and a helmet. You can adjust the camera angle by rotating the ball joint on the QRM Body. When you are not recording, you can simply separate the slide lock from the flat or curved glued surface mounting adapter.

15.3.1. QRM Top Surface Mount Components

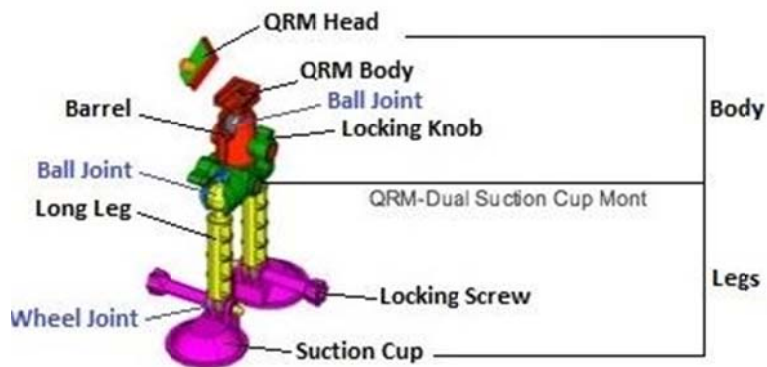
QRM	The QRM head contains the standard 1/4" camera mount bolt on which you fasten the camera. The QRM body combines with the QRM head.
-----	--

Slide Lock for QRM	The slide lock can take in and lock the rotating ball joint.
Flat Glued Surface Mounting Adapter	The mounting adapter can be glued on a flat surface.
Curved Glued Surface Mounting Adapter	The mounting adapter can be glued on a curved surface.

15.3.2. QRM Top Surface Mount Installation

1. Choose the surface that you like to mount the camera on, and select a suitable glued surface mounting adapter (flat or curved).
2. Peel off the back sticker of the mounting adapter and carefully attach it on the surface.
3. Slide the slide lock into the mounting adapter until you hear a click.
4. Adjust the camera angle by rotating the ball joint and lock it.
5. Mount the camera on the QRM head using the 1/4" camera mount bolt.

15.4. QRM Dual Suction Cup Mount



The QRM Dual Suction Cup Mount enables you to mount the camera on surfaces that require some height for recording such as windshield, gas tank, and trunk. You can adjust the camera angle by rotating the wheel joints or the ball joints on the legs. When you are not recording, you can simply separate the suction cups from the surface, or take out the QRM head from the QRM body.

15.4.1. QRM Dual Suction Cup Mount Components

QRM	The QRM head contains the standard 1/4" camera mount bolt on which you fasten the camera. The QRM body combines with the QRM head.
Locking Screws	

Locking Knobs	
Suction Cups	The suction cups can be locked into position by pulling the lever.
Long Legs	These legs are used for dual suction.
Short Leg	This leg is used for single suction depending on the camera angle.

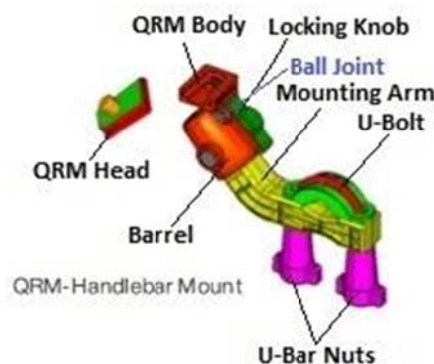
15.4.2. QRM Dual Suction Cup Mount Installation

1. Locate a proper surface to attach the mount, clean the surface location with a moistened towel, and allow to dry thoroughly.
2. Adjust the leg angles by rotating the wheel joints and the ball joints of the legs.
3. Once the leg angle is set, place the suction cups on the surface.
4. Pull the levers on the suction cups to secure suction.
5. Adjust the camera angles by rotating the barrel and the ball joint on the body, and lock them.
6. Mount the camera on the QRM head using the 1/4" camera mount bolt.

16.4.3. QRM Single Suction Cup Mount Installation

1. Locate a proper surface to attach the mount, clean the surface location with a moistened towel, and allow to dry thoroughly.
2. Detach the body from the legs.
3. Attach the short leg on one of the long legs.
4. Adjust the leg angles by rotating the wheel joint and the ball joint of the leg.
5. Place the suction cup on the surface and pull the lever to secure suction.
6. Adjust the camera angles by rotating the barrel and the ball joint of the body and lock them.
7. Mount the camera on the QRM head using the 1/4" camera mount bolt.

15.5. QRM Handlebar Mounting



The QRM Handlebar Mounting enables you to mount the camera on your motorcycle's handlebar (between 7/8" and 1

1/2" diameter). You can choose the directions of the mounting arm and the U-bolt to best fit the mount on your handlebar. When you are not recording, you can simply separate the QRM head from the QRM body.

15.5.1. QRM Handlebar Mounting Components

QRM	QRM head contains the standard 1/4" camera mount bolt on which you fasten the camera. QRM body combines with the QRM head.
U-Bolt	The U-bolt can be installed either upwards or downwards.
U-Bar Nuts	The U-bar nuts tighten the mounting arm and the U-bolt together.
Locking Knob	Locks the barrel at the adjusted angle.
Mounting Arm	The mounting arm can be installed either upwards or downwards and either forwards or backwards.

15.5.2. QRM Handlebar Mounting Installation

1. Choose the position of the handlebar you want to mount the camera on.
2. Choose the direction of the U-bolt and the mounting arm.
3. Pile them together and tighten them using the U-bolt nuts.
4. Adjust the camera angle by rotating the barrel and the ball joint and lock them.
5. Mount the camera on the QRM head using the 1/4" camera mount bolt.

16. CAMERA SOFTWARE

16.1. PRISM Device Manager

PRISM Device Manager allows you to upgrade firmwares and configure settings directly from your PC. It is available for both Windows and Mac. For more information and download, please visit www.sena.com.

16.2. PRISM Smartphone App

PRISM Smartphone App allows you to configure settings and view user manual and quick reference directly from your mobile phone. It is available for both Android and IOS. For more information, please visit www.sena.com.

17. CAMERA SPECIFICATIONS

General

- Record time: 2 hours
 - Working distance (Sena headsets): up to 100 meters (110 yards) in open terrain
 - Operating temperature: -10°C ~ 55°C (14°F ~ 131°F)
 - Dimensions (main module): 59.0mm x 43.0mm x 21.0mm (2.3 in x 1.75 in x 0.8 in)
-

Bluetooth

- Profile: Headset Profile, Hands-Free Profile (HFP)
 - Bluetooth 4.0
-

Audio

- Internal microphone
 - Wind noise reductions
-

Optical

- Field of view: 137 degrees
 - 3.5M pixel CMOS
 - Aperture f/2.0
-

Video mode

- Resolution
 - 1080p 30fps
 - 720p 30 / 60fps
 - 480p 120fps
-

Photo mode

- Resolution
 - 3:2 3.5M
-

- 4:3 5M
 - 4:3 3.2M
 - 16:9 3M
 - Burst shot
 - 10 / 5 / 3 pic per sec
-

Time lapse mode

- Photo & Video
 - pic per 1 / 3 / 5 / 10 / 30 / 60 sec
-

TV-out

- Micro HDMI
-

Battery

- Charging time: 3.5 hours
 - 1100mAh
 - Type: Lithium ion battery
-

Certificates

- CE, FCC, IC