Driveman® PS-9
Limited Warranty

Driveman PS-9 has a limited warranty. In case of malfunction, our service station will repair or exchange at no charge. Shipping the unit to the repair facility is the customer's responsibility. The following items are not covered by the Limited Warranty

1. Evidence of abuse, self repair or modification is present.
2. Unit has been dropped or water damaged.
3. Damage caused by natural disaster.
   earthquake, act of God, storm, lightning or natural calamities.
4. When used for any other purpose than motorcycle / helmet mounted use.
5. Normal wear and tear.
6. Customer travel to repair facility.
7. Industrial or commercial use.
8. Defect or damage caused by connecting to any other device or any unintended use.
9. Without attaching this Warranty card.
10. Without filling up "Store name", "User name" and "Date of purchase".
11. Written in column 10 is falsified.

This warranty is valid only in the country where purchased. This warranty is limited to the Driveman only. ARC is not responsible for any incidental or consequential damages or memory loss or other damages for any reason, ARC's responsibility is limited to the Driveman product alone.
While this product may help in analyzing an accident site, ARC does not represent that the images could be used as evidence.
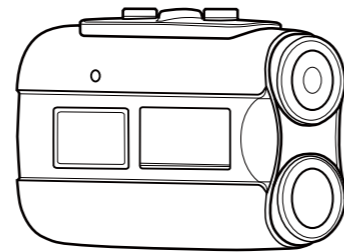
User name	Name
	Address
	Phone
term of a guarantee	one year from a date of purchase
Date of purchase	
Store name	Store name
	Store address
Serial number	

Driveman Div. Asahi Research Corporation
3-3-8 Kita-Sinagawa, Sinagawaku, Tokyo, Japan 1400001
http://www.driveman.jp   support@driveman.jp

Notes

· Connect the power cable securely, half exposed live contact may heat up and could start a fire.
· Never jar or impact the LCD panel. This could break the Panel and cause fire or injury.
· Mount the unit at the proper position.
  Wrong mounting may result in the unit malfunctioning or may fall off from bracket during driving.
· In the case of smoke or burning odor coming from the unit, turn off unit immediately and report to our sevice center.
· Never disassemble the unit. Never modify the unit.
  Fire, electronic shock or malfunction could result and your Warranty would be voided.
· Never attempt to operate the controls or any settings during driving. This must only be done while the bike is parked.
· Never use the unit or the power cable got wet with water, chemicals or any other liquids. A short circuit may cause fire or electrical shock.
· Use only supplied connectors and AC charger.
  Do not connect other than supplied, or it may cause smoke, heat, strange sound and stink.
· Do not store unit with full charge condition over 30 days, or Battery capacity becomes less and life becomes shorten.
  For partial discharge, power ON and LED flash light On recommended until center Green LED indicator shows 80~50% charge.
· For disposal of unit, open rear rubber door and dip in salt water for a few days to discharge battery completely and dispose as garbage not burn.
· Humid air may sneak into unit during rubber door open.
  Moisture can fog from inside that makes wiping not possible.
  On such event, open rubber door on back and keep unit in a airtight plastic bag with a desiccant for 48 hours.
· There is a case where the video is distorted in the vicinity of strong radio waves
· There is a case where the recording video and/or sound is distorted near the place close to specific facilities such as broad casting station, transmission towers, wireless communication base station, mobile radio station, etc.
· Microwave oven or some kind of radiation-emitting produts can be a cause of video distortion.
· Electrical noise from ETC wiring location can enterfere the function of Driveman.

Motorcycle Drive recorder
Driveman®
PS-9
Instruction

Thank you for purchasing the Driveman PS-9.
Please take a minute to read the Safety Precautions.
These Instruction explain how to properly use the Driveman.
The Warranty card should be kept for service if required.

FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
ÿ Reorient or relocate the receiving antenna.
ÿ Reorient or relocate the receiving antenna.
ÿ Reorient or relocate the receiving antenna.
ÿConsult the dealer or an experienced radio/TV technician for help important announcement Important Note:
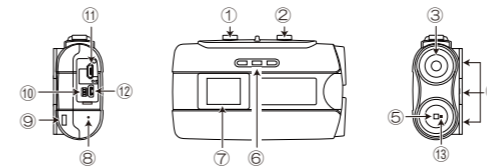
Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

1. Contents of package

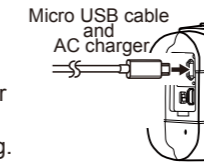| Contents of package					
Body	Bracket	Micro USB cable and AC charger	micro HDMI Cable	Tape	Instruction Sheet
Optional accessories	Windjammer (air noise defuser)	Spare adhesive tape	Decrypting software		

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2. Name of parts

1. Power/Enter button
2. Select/Light button
3. Camera Lens
4. Magnet mout bracket interface
5. LED light for illumination
6. LED indicators
7. LCD display
8. Mic
9. Strap hole
10. Main switch
11. micro HDMI cable socket
12. micro USB charger cable socket
13. LED lump for recording status

3. LED indicators

LEFT	CENTER	RIGHT
Red ON REC	Blue ON GPS reception	Red ON Recharing

Right LED charging level indication		Right LED battery level indicator	
100% OFF		100% ～ 50%	Green ON
		50% ～ 20%	Green+Red ON
0 ～ 80% Red ON		20% ～ 30 min	Red ON
		30min ～ 0min	Red Blink

4. Recharge

1. Connect micro USB cable.
   Recharge takes approx. 3 hours (80% up).
   LED at right side indicate Red.
2. When charged Full, recharge stop and indicator becomes Off. Use supplied charger only.
   GPS time setting can be done during recharging.
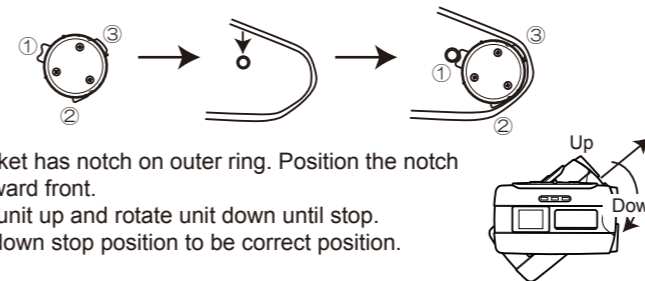
Micro USB cable and AC charger

5. Clock setting

⑦Time Clock appeared in the LCD display.
By pressing① the Power/Enter button, PS-9 starts recording and clock setting is adjusted automatically by embedded GPS at the same time.
If the GPS signal can not be captured in 10 minutes, previously memorized clock setting may be appeared.
Once GPS signal was captured in order, PS-9 stop receiving action.

6. Bracket mount

1. Peel a protect sheet off from the bracket.
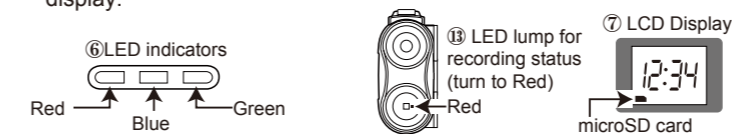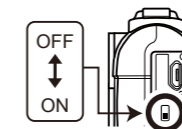2. Unit has 4 powerful magnets and connect to bracket.

3. Bracket has notch on outer ring. Position the notch to toward front.
4. Aim unit up and rotate unit down until stop.
   The down stop position to be correct position.

Up
Down

7. Operation

REC Start and Stop

1. Turn on the main swith (Slide to lower position).
2. Press① Power/Enter Button for 3 seconds, REC starts with beep sound and vibration.
   ⑥LED indicators and LED lump for recording status turn on and clock appeared on the LCD display.
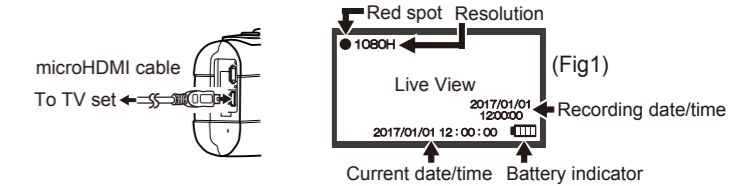
OFF
ON

⑥LED indicators
Red — Blue — Green
⑬ LED lump for recording status (turn to Red)
Red
⑦ LCD Display
12:34
microSD card

Press① Power/Enter Button for 3 seconds again to stop recording.
＊No need to switch the main power switch in every operation.

Flash Light LED

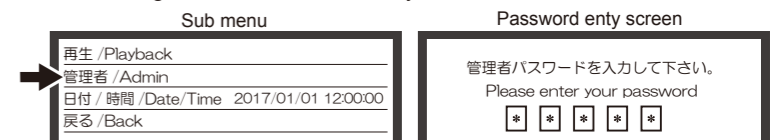During REC, by pressing Select/Light switch, ⑤LED Light turn On and Off with short beep sound.

Live View Recoding (TV set and HDMI cable required)

1. Using supplied micro HDMI cable, connect TV and unit. Turn on unit pressing Power/Enter button for 3 sec. TV shows camera Live View (Fig1).
2. Press Power/Enter Button then REC starts. Red spot appeared on upper left side of the TV screen and Rec date/time appeared on lower right sidelikewise.
3. Press Power/Enter Button again then REC stop and the red spot disappeared.
＊Sometimes you can see text comment "File Encryption..." on the TV screen. This means PS-9 is checking the encrypted files. Please keep on waiting until the comment disappeared.
＊In the Live View Recording, the function of neither Sleep mode nor motion recording is effective.
＊Live View Recording is not available under 90° setting or 270°setting.

microHDMI cable
To TV set
Red spot Resolution
1080H
(Fig1)
Live View
2017/01/01 120000
2017/01/01 12：00：00
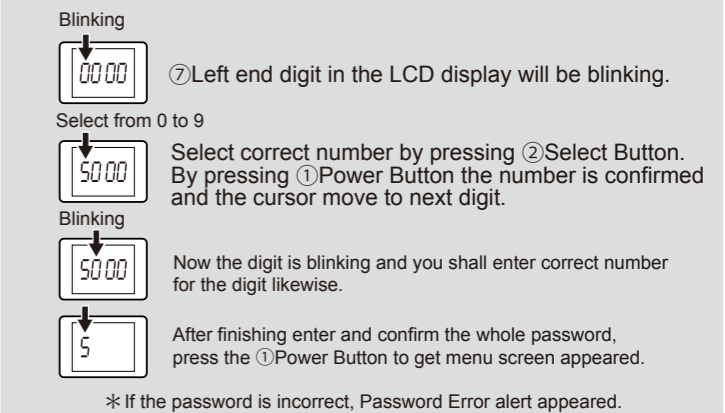Recording date/time
Current date/time Battery indicator

8. Various Setting (TV set and HDMI cable required)

Playback video and various setting *Password required for the operation.

1. When PS-9 is connected to TV, press Select/Light button then sub menu appears on TV screen.
2. Select Admin with Select/Light button. Then next Press① Power/Enter button to get Admin Password entry screen.

Sub menu
再生 /Playback
管理者 /Admin
日付／時間 /Date/Time 2017/01/01 12:00:00
戻る /Back

Password enty screen
管理者パスワードを入力して下さい。
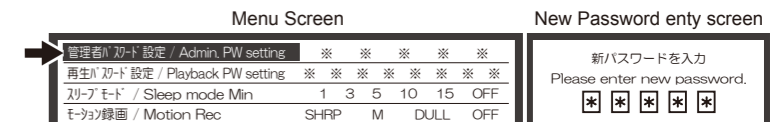Please enter your password
＊ ＊ ＊ ＊ ＊

How to enter the Password

Playback Password and Admin Password are under management of Police Equipment Department.Please contact the department if necessary.

Blinking
00:00
⑦Left end digit in the LCD display will be blinking.

Select from 0 to 9
50.00
Select correct number by pressing ②Select Button.
By pressing ①Power Button the number is confirmed and the cursor move to next digit.

Blinking
50.00
Now the digit is blinking and you shall enter correct number for the digit likewise.

5
After finishing enter and confirm the whole password, press the ①Power Button to get menu screen appeared.

＊If the password is incorrect, Password Error alert appeared.

9. Admin Password setting

1. Select Admin.PW setting using ②Select Light button. Press Power /Enter Button then New password entry screen appeared in the screen.
2. You can see current password on the screen. To change the Password, enter new Password by pressing ①Power/Select Button. For the final procedure, press Select/Light button to confirm the new password setting.

Note: Be careful not to disclose the password to any of the third person.

Menu Screen

管理者パスワード設定 / Admin.PW setting	＊	＊	＊	＊	＊
再生パスワード設定 / Playback PW setting	＊	＊	＊	＊	＊
スリープ モード / Sleep mode Min	1 3 5	10	15	OFF	
モーション録画 / Motion Rec	SHRP	M	DULL	OFF	

New Password enty screen
新パスワードを入力
Please enter new password.
＊ ＊ ＊ ＊ ＊

10. Playback Password setting

1. Select PlaybackPW setting with Select/Light button. Press ①Powre /Select button to get new password entry screen.
2. You can see current password on the screen. To change the Password, enter new Password by pressing ①Power/Select Button. For the final procedure, press Select/Light button to confirm the new password setting.
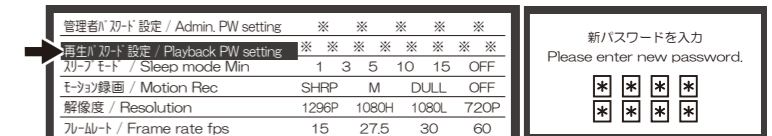
Note: Be careful not to disclose the password to any of the third person.

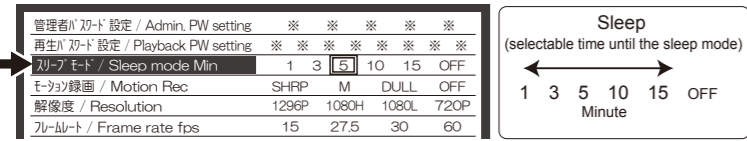|								
管理者パスワード設定 / Admin. PW setting	＊	＊	＊	＊	＊			
再生パスワード設定 / Playback PW setting	＊	＊	＊	＊	＊	＊	＊	＊
スリープ モード / Sleep mode Min	1	3	5	10	15	OFF		
モーション録画 / Motion Rec	SHRP	M	DULL	OFF				
解像度 / Resolution	1296P	1080H	1080L	720P				
フレームレート / Frame rate fps	15	27.5	30	60				

新パスワードを入力
Please enter new password.
＊ ＊ ＊ ＊
＊ ＊ ＊ ＊

11. Sleep Mode

For energy saving, when unit find unit still and idle recording for preset time, unit go sleep. You can choose desired time to enter sleep mode from six values.
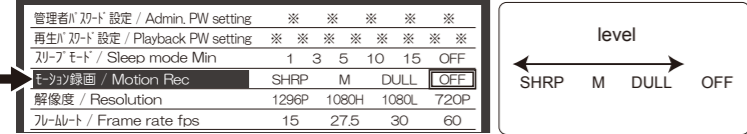
1. Select Sleep mode Min with Select/Light Button. Press Power/Select Button then the cursor move to right side and you can select desired value from 1/3/5/10/15/OFF. Place the cursor onto the desired value and press Power/Select button to confirm the setting.
2. When unit find move, unit resumes REC automatically.
＊Motion Recording is not available when during sleep mode enabled.

管理者ハ゜スワート゛ 設定 / Admin. PW setting	※	※	※	※	※	※	
再生ハ゜スワート゛ 設定 / Playback PW setting	※	※	※	※	※	※	
スリーフ゜ モート゛ / Sleep mode Min	1	3	5	10	15	OFF	
モーション録画 / Motion Rec	SHRP	M	DULL	OFF			
解像度 / Resolution	1296P	1080H	1080L	720P			
フレームレート / Frame rate fps	15	27.5	30	60			

Sleep (selectable time until the sleep mode)

1 3 5 10 15 OFF Minute

12. Motion Recording

When the object keep staying still without any motion for 15 seconds, PS-9 automatically stop recording and enter into stand-by mode. Once after PS-9 detect motion, the recording start again automatically. You can choose the sensor level from four choices.

1. Select Motion Rec by Select/Light button. Press ①Power/Enter button then the cursor move to right side and you can select desired value from SHRP/M/DULL/OFF. Place the cursor onto the desired value and press Power/Select button to confirm the setting.
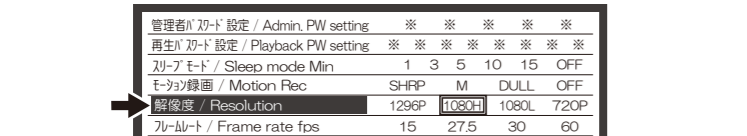
管理者ハ゜スワート゛ 設定 / Admin. PW setting	※	※	※	※	※	※	
再生ハ゜スワート゛ 設定 / Playback PW setting	※	※	※	※	※	※	
スリーフ゜ モート゛ / Sleep mode Min	1	3	5	10	15	OFF	
モーション録画 / Motion Rec	SHRP	M	DULL	OFF			
解像度 / Resolution	1296P	1080H	1080L	720P			
フレームレート / Frame rate fps	15	27.5	30	60			

level

SHRP M DULL OFF

＊Sleep mode is not available when Motion recording is enabled. This mode can save memory storage space but not effective for energy saving. Since during this mode, PS-9 keep powered in stand-by status.

13. Resolution

You can set and adjust settings of Resolution and Frame Rate. Please choose one from following four choices. Other combinations than the four choices are not available. (If you try to set other combination, the cursor forced to move to selectable position)

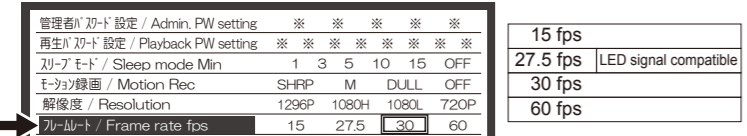| 4 choices available	1296P	2K	300 mega-pixel approx.	1080H：High bit rate
	1080H	FULL HD	200 mega-pixel approx.	
	1080L	HD	100 mega-pixel approx.	1080L：Low bit rate (suitable for long time recording)
	720P			

1. Select resolution with pressing ② Select/Light button then press ① Power/Enter button. Cursor will move to right and you can choose the resolution from 1296P/1080H/1080L/720P. To confirm the setting, put the cursor onto your desired value and press ①Power/Enter button.

管理者ハ゜スワート゛ 設定 / Admin. PW setting	※	※	※	※	※	※	
再生ハ゜スワート゛ 設定 / Playback PW setting	※	※	※	※	※	※	
スリーフ゜ モート゛ / Sleep mode Min	1	3	5	10	15	OFF	
モーション録画 / Motion Rec	SHRP	M	DULL	OFF			
解像度 / Resolution	1296P	1080H	1080L	720P			
フレームレート / Frame rate fps	15	27.5	30	60			

14. Frame Rate fps

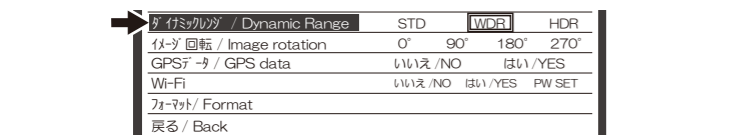There are four choices you can select from as the frame rate.

1. Select Frame rate fps with pressing ② Select/Light button then press ①Power/Enter button. Cursor will move to right and you can choose the resolution from 15/27.5/30/60. To confirm the setting, put the cursor onto your desired value and press ①Power/Enter button.

管理者ハ゜スワート゛ 設定 / Admin. PW setting	※	※	※	※	※	※	
再生ハ゜スワート゛ 設定 / Playback PW setting	※	※	※	※	※	※	
スリーフ゜ モート゛ / Sleep mode Min	1	3	5	10	15	OFF	
モーション録画 / Motion Rec	SHRP	M	DULL	OFF			
解像度 / Resolution	1296P	1080H	1080L	720P			
フレームレート / Frame rate fps	15	27.5	30	60			

15 fps
27.5 fps LED signal compatible
30 fps
60 fps

15. Dynamic Range.

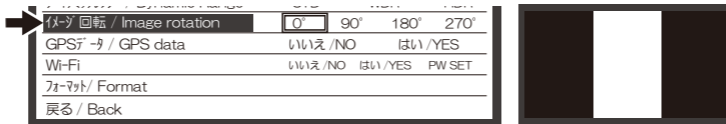There are three choices you can select from as the Dynamic Range setting.

1. Select Dynamic Range with pressing ② Select/Light button then press ①Power/Enter button. Cursor will move to right and you can choose the resolution from STD/WDR/HDR. To confirm the setting, put the cursor onto your desired value and press ①Power/Enter button.

ダイナミックレンジ / Dynamic Range	STD	WDR	HDR	
イメージ 回転 / Image rotation	0°	90°	180°	270°
GPSデータ / GPS data	いいえ /NO	はい /YES		
Wi-Fi	いいえ /NO	はい /YES	PW SET	
フォーマット / Format				
戻る / Back				

16. Image Rotation

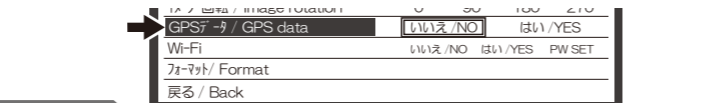In addition to normal recording, PS-9 can record the rotated image by specific angle.
Ther are four choices you can select from as an angle of Image rotation.
1. Select Image rotation with pressing ② Select/Light button then press ①Power/Enter button. Cursor will move to right and you can choose the rotation angle from 0°/90°/180°/270°. To confirm the setting, put the cursor onto your desired value and press ①Power/Enter button.
＊Only 0°and 180°are available for 1296P resolution.
＊When the Image rotation is set to 90°or 270°, playback image turn to appear virtically long.

イメージ 回転 / Image rotation	0	90°	180°	270°
GPSデータ / GPS data	いいえ /NO	はい /YES		
Wi-Fi	いいえ /NO	はい /YES	PW SET	
フォーマット / Format				
戻る / Back				

17. GPS data

PS-9 can record GPS data.
When you set GPS data YES, PS-9 will record the location information receiving GPS signal.
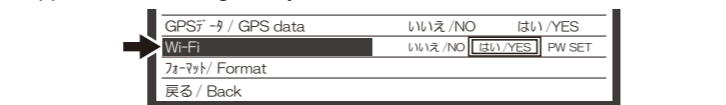1. Select GPS data with pressing ② Select/Light button then press ①Power/Enter button. Cursor will move to right and you can choose the one from NO and YES. To confirm the setting, put the cursor onto your desired value and press ①Power/Enter button.

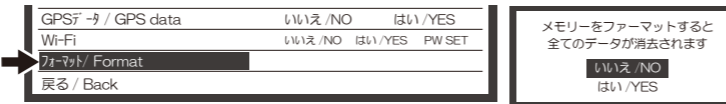| イメージ 回転 / Image rotation	0	90°	180°	270°
GPSデータ / GPS data	いいえ /NO	はい /YES		
Wi-Fi	いいえ /NO	はい /YES	PW SET	
フォーマット / Format				
戻る / Back				

18. Wi-Fi

1. Selectt Wi-Fi with pressing ② Select/Light button then press ①Power/Enter button. Cursor will move to right and you can choose from the three choices, NO/YES/PW SET. To establish Wi-Fi connection, select YES and press ①Power/Enter button. To change password, select PW SET and press ①Power/Enter button.
2. When you press long press ②Select/Light button during PS-9 is powered on, Wi-Fi turned to active. Once Wi-Fi become active and if PS-9 can not establish Wi-Fi connection within 2 minutes, the Wi-Fi status automatically turned to OFF. To retry to establish the Wi-Fi connection, keep press ②Select/Light button for 3 seconds.
＊To playback PS-9's video with Wi-Fi connected devices, free application LinkinEyes is required. You can download the application from either Apple Store or Google Play.

GPSデータ / GPS data	いいえ /NO	はい /YES	
Wi-Fi	いいえ /NO	はい /YES	PW SET
フォーマット / Format			
戻る / Back			

19. Format

1. Select Format with pressing ② Select/Light button then press ①Power/Enter button. In the appeared sub screen, when you choose YES, there appeared Processing in the screen and embedded memory storage will be formatted.
＊Be sure that once PS-9 get into format process, all the data stored in the memory is permenently deleted.

GPSデータ / GPS data	いいえ /NO	はい /YES	
Wi-Fi	いいえ /NO	はい /YES	PW SET
フォーマット / Format			
戻る / Back			

メモリーをファーマットすると全てのデータが消去されます
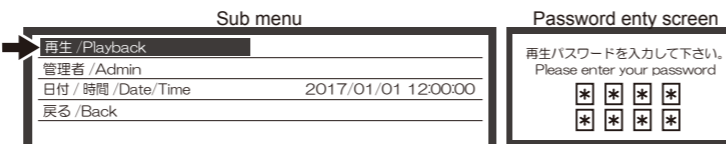いいえ /NO はい /YES

20. Back

1. To back to the sub menu screen, select Back and press ①Power /Enter button.

21. Playback

TV playback

1. Select Playback in the sub menu and press ①Power/Enter button. There appeared Password entry screen then enter the password.

Playback Password and Admin Password are under management of Police Equipment Department. Please contact the department if necessary.

Sub menu

再生 /Playback	
管理者 /Admin	
日付 / 時間 /Date/Time	2017/01/01 12:00:00
戻る /Back	

Password enty screen

再生パスワードを入力して下さい。
Please enter your password
※ ※ ※ ※
※ ※ ※ ※

2. Select the desired file from the appeared file list by pressing ②Select/Light button. Press ①Power/Enter button to start playback.
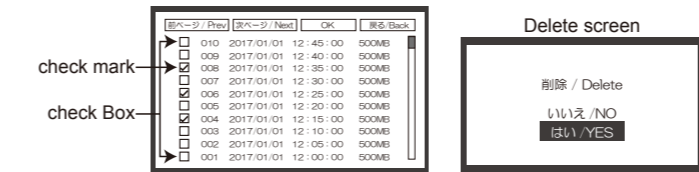＊File name having larger number will be the newer file.

Thumbnail screen (file list)

Playback screen

3. By selecting either ◄◄ or ►► with ②Select/Light button then press then press ①Power/Enter button, you can have the video wind-back or fast-forward. To change the speed, press the button twice.

play/pause

wind-back ◄──────────── ► ────────────► fast-forward
◄◄×16 ◄◄×4   ‖   ×0.5► ×4►► ×16►►

Delete file

1. Select Delete with pressing ②Select/Light button and press ① Power/Enter button. Then there appeared check box screen.
2. Select the file you want to delete with Select/Light button then press ①Power/Enter button. You can see the check box for the selected file is marked then click OK button.
The sub screen for the final confirmation is appeared. When you click OK in the screen, the file is deleted.

check mark →
check Box →

Delete screen

削除 / Delete
いいえ /NO
はい /YES

Remove HDMI cable

Be sure that if you remove micro HDMI cable when PS-9 and connected TV is under operation/communication, it can cause wrong effect to data in PS-9. To prevent this kind of trouble including unexpected data crush, return to sub menu and select Back before remove the micro HDMI cable.

Sub menu

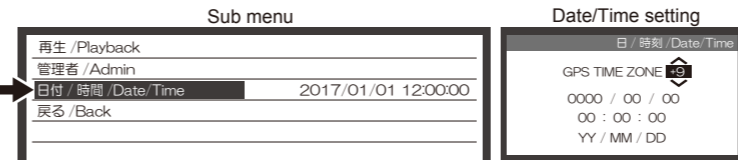| 再生 /Playback	
管理者 /Admin	
日付 / 時間 /Date/Time	2017/01/01 12:00:00
戻る /Back	

micro HDMI Cable

PC Playback

To playback on PC, specal decryption software is required.
1. When you connect PS-9 and PC with bundled micro USB cable, ⑦ LCD display shows 0(zero) blinking as the first figure. Enter the admin password there.
＊After you enter fourth figure, the screen will be changed, then continue to enter the fifth figure.
2. PS-9 will be recognized as a removable disk from PC.
＊Since the PS-9's stored file is encrypted, you need to decrypt it first. Decrypted file can be playback with video player software like Windows Media Player, QuickTime and so forth.
＊Regarding details about PC operation, please ask your PC manufacturere or supplier.

22. Date/Time (TV set and HDMI cable required)

When PS-9 is connected to TV via bundled microHDMI cable, you can adjust and set date/time setting manually.
1. From sub menu screen, select Date/Time by ②Select/Light button and press ①Power/Enter button. There appeared Date/Time setting screen.
2. Select the item (GPS TIME ZONE, Date, Time) you want to adjust with ②Select/Light Button and press ①Power/Enter button
3. When the cursur move to YY position after you finish all the setting, press ①Power/Enter button. The procedure is completed and screen back to menu.
＊When you want to set GPS TIME ZONE to Japan locale, please set it +9.
＊Selectable range of the year is from 2016 to 2037
＊You can change the order of Date, Month, Year when the cursor is located on YY.

Sub menu

再生 /Playback	
管理者 /Admin	
日付 / 時間 /Date/Time	2017/01/01 12:00:00
戻る /Back	

Date/Time setting

日 / 時刻 /Date/Time
GPS TIME ZONE +9
0000 / 00 / 00
00 : 00 : 00
YY / MM / DD

23. Available Recording Time

Note: REC time to be extended under dark ambient.

Embedded memory storage capacity: 64GB

	1296P	1080H	1080L	720P
15fps	18hour40min	18hour40min	34hour40min	40hour
27.5fps	10hour40min	13hour20min	18hour40min	34hour40min
30fps	12hour	14hour40min	22hour40min	26hour40min
60fps	────	────	────	17hour20min

Drive Recorder designed for Motorcycle Use

Driveman® PS-9

Guide to getting support

Internet mail
support@driveman.jp

Web page
http://www.driveman.jp

Driveman PS-9 Specifications

Encryption	Encryption File AES128
Memory	Built-in memory 64GB
Playback	TV (HDMI) / PC (USB)
Clock setting	Menu(TV-HDMI) or GPS (option) auto
Battery	REC up to 8 hr (recharge about 3 hour)
Image sensor	1/3 inch 3M pixcel
Resolution	2K 1296P
	Full HD 1080p
	HD 720p
Lens	3.0mm F2.4 fixed focus
Lens angle	96 deg Horizontal, 64 Vertical, 104 deg Diagonal.
File style	MOV AVC/H.264
Frame rate	15fps / 27.5fps / 30fps 60fps
File to file gap	Less than 0.05 sec.
File size	5 minute / file
Recording system	Endless recycle erase oldest file when full.
Format	Yes, Menu selection
Sleep Mode	Menu selection Off, 1min, 3min, 5min,10min, 15min.
Image inverse	Menu selection 0 deg / 90deg / 180 deg / 270deg
Motion rec	SHRP M DULL OFF
Dynamic range	STD WDR HDR
GPS data	ON / OFF
Wi-Fi	ON / OFF SET PW
LED flash light	Built-in Light power 200 lux at 50cm
Dust/Water protection	Level IP56
White balance	Auto
Brightness	Auto
Microphone	Built-in
Buzzer	Operation confirmation
Vibrator	Operation confirmation
G-shock sensor	Sleep mode sensor
Lunguage	English / Japanese
Energy consumption	Less than 330mA
Operating Temperature	0 deg to 60 deg C
Storage Temperature	-20 deg to 40 deg C
Dimensions (body) (magnet mount bracket)	58 x 96 x 30 mm (approx..) 54mm dia (max.62mm) 31mm H
Weight (body)	145 grams (approx..)

Note: Specifications subject to change without notice.

Default setting

Sleep Mode	5 minute	Dynamic range	WDR
Motion rec	OFF	Image inverse	0 deg
Resolution	1080H	GPS data	NO
Frame rate	30fps	Wi-Fi	NO