

V700G

User's Manual



* This picture may be changed without any notice.

<http://dvr-korea.co.kr>

Before Using –

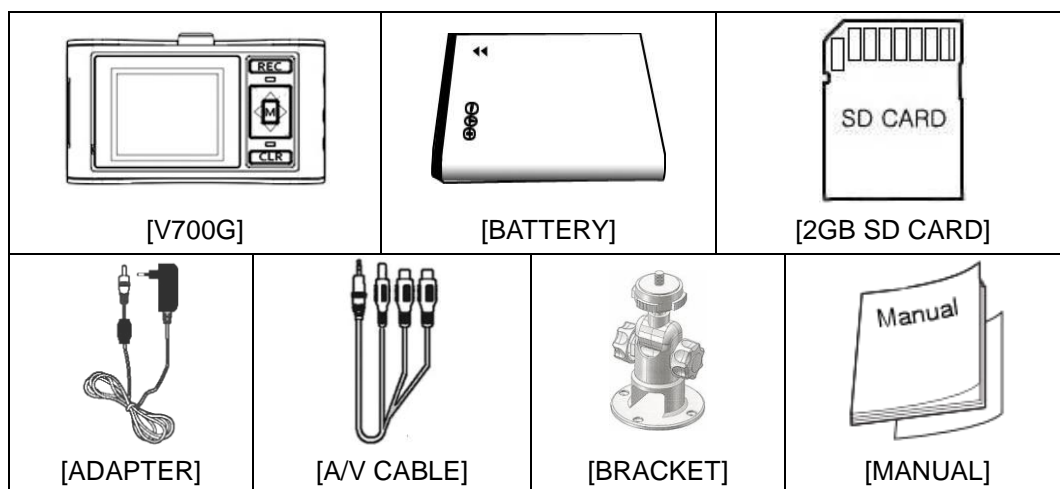
Please read this user manual carefully before using.

- SanDisk SD card that support over 512MB / under 16GB is recommended to use.
- Use only specified AC/DC and Voltage. (Input: DC5V, Output: 12V 150mA)
- Connect adapter correctly, otherwise it cause damage.
- Turn off V700G when you plug/ plug off External camera, it cause damage.
- Do not use the location where it rains and is humid, this product is not waterproof.
- Away from the location is exposed to hot-wind from heater, it cause to decrease the life of electric components.
- If V700G is sealed, it block the effect of heat loss, and cause broken.
- Do not place V700G for long time where it will be subjected to direct sunshine.
- Do not install near high-voltage generate (Motor, Outdoor Motor and Air Compressor), it cause damage the V700G.
- Do not repair, break down and convert by yourself.
- Use only specified battery and accessory. Otherwise it decreases the parts of life and damage or might explode. In this case free charge service is not acceptable even during warrantee period.
- Please backup the data. We are not responsible for lost data.
- Please refer to our website (<http://dvr-korea.co.kr>) for further information about the products.
- The contents of this manual could change without any notice.
- When you play the recorded video file, we recommend Quicktime player or Window Media Player.
- If you want to play on your PC by Window Media Player you have to download “K-Lite Kodec”(download site - <http://www.mediafire.com/file/mngjzz1gwng/klcodec480s.zip>)

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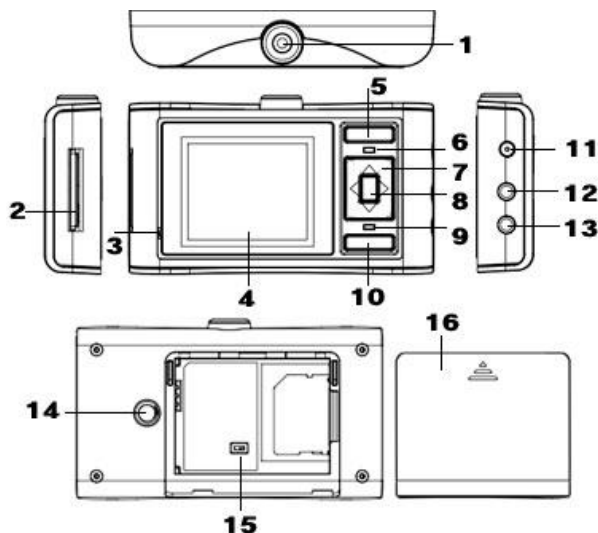
1. Packaged Items




2. Feature

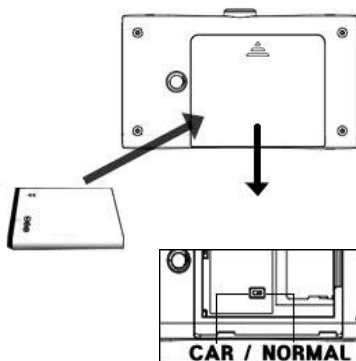
- Palm size SD Recorder.
- Can check recorded video image directly by V700G body with Built-in Color CMOS Camera.
- Have 1.8 inch display. Can check recorded video by body.
- 1.8 inch LCD display on body
- Record the moment of accident by built-in G-Sensor (Car Mode Only)
- Play Audio file (MP3) by MP3 player
- Snap Shot
- 2 channel record (sell external camera separately, Frame 15, Resolution 640x240)
- Can connect external camera with Video-Out function (Sell External camera separately)
- Ultra-High sound quality with built-in microphone.
- Record with Motion detection function
- Selectable resolution D1(704x480), VGA(640x480), Half D1(704x240), Half VGA(640x240), CIF(352x240), QVGA(320x240)
- Save recorded image in SD Card(512MB ~ 16GB / Recommended SanDisk SD Card)
- Max: 3~4 hours continuous record with Lithium-ion battery
- Overwrite function: overwrite automatically from oldest file
- Display in External Monitor by Video-out function
- Inverting Function (top / bottom / right / left)
- Expand Wide-Angle to 115° with Wide-Angle Lens

3. Parts names and Functions



1.Built-in Camera	Record image by built-in camera / Connecting with Wide-Angle Lens
2.SD CARD Slot	Insert SD CARD
3.Microphone	Audio Recording
4. 1.8" LCD Monitor	Confirm recorded image on LCD monitor
5.REC Key	To start recording / take snapshot
6. Rec LED Light	Recording: LED lamp flash green Screen save mode: LED lamp flash red
7. Move Key	▶ Right: Go to Replay Screen / Delete file / Rewind ◀ Left: Fast-Forward / Protect File Press 2 sec: Invert right and left at stand-by mode ▲ Top: Turn up the volume Press 2 sec: Invert top and bottom at stand-by mode ▼ Bottom: Turn down the volume
8. Menu & Select Key	M Menu set up and Select button/ Switch to motion detection mode in parking
9. Battery LED Light	Recharging : Red / Charged: Green
10. Power/Cancel Key	CLR  : Power ON (2sec) OFF (3sec) / Select Cancel
11. Power Input	AC Adapter (DC 5V 2A)
12. Earphone	Earphone plug
13. Video IN/OUT	External Monitor Input, TV Monitor Output, External Camera(12V 150mA)
14. Bracket Mount	To fix bracket
15. Record Mode Key	CAR (For Car with G-sensor function) / NORMAL(For Normal Recording)
16. Battery Cover	Battery Cover

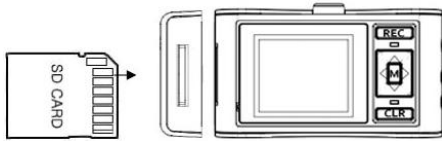
4. Before set-up



① Setup Recording Mode and set Battery.

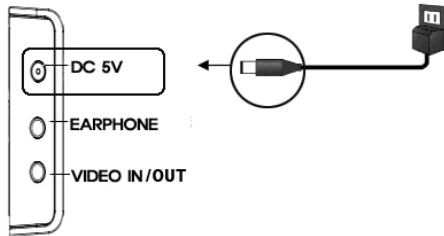
Remove Battery cover on back and insert packaged battery as left picture.

※ Check insertion direction



② **Insert SD Card when power is off.**

※ **Check insertion direction**



③ **Charging**

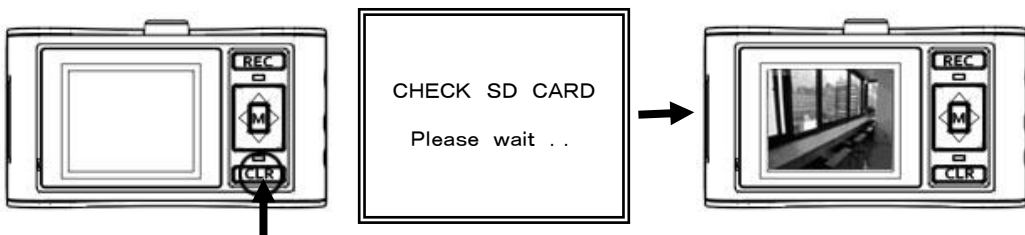
Connect AC adapter jack. As soon as AC adapter connected, it started to charge and light is on. (Charging: Red / Completed charging: Green)

It run 3~4 hours on 1 hour charge.

※ **With using External Camera (without external charging), the Recording time will be around 1hour to 1hour and half.**

④ **Power**

Press 2sec(CLR ⏻) to power on and check monitor display.



After "CHECK SD CARD" the image will be displayed.

⑤ **Language**

English is setup at initial setup.

To Select Language, go to menu of SETUP – press **[M]** – 3. System Setup - 9. Languages

⑥ **Time Setup**

Time Setup is needed only first time. SETUP: Menu **[M]** button – 1. Time Setup

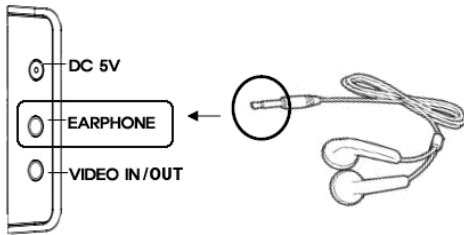
⑦ **Record**

Press 'REC' to start to record. Press 'CLR ⏻' to stop recording.

⑧ **Play**

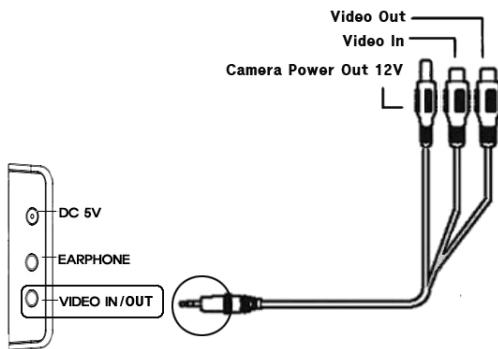
Press **[▶]** on stand-by mode – Recorded list is shown. Press **[M]** to play.

⑨ To use Earphone



Connect Earphone to earphone jack on side of body.
Volume can adjust with ▲ or ▼ during playing.

⑩ External Camera



As following left picture, connect enclosed Video cable to V700G and external camera

※ Video Cable:

Black - External Camera 12V 150mA

Yellow - Video Input, **Blue** - Video Output

※ To use external camera, set up <<OUTER>>.

※ Depend on External camera, BNC jack or RCA jack would be required

※ Turn off power when plug / plug-off a Video cable.

5. Set-up

Setup
1. Time Setup
2. Record Setup
3. System Setup
4. SDCard Info
5. Version Info

After Power is ON, press **[M]**, setup menu and 5 items are displayed.

5 – 1. Time Setup

Time Setup	MM / DD / YYYY (Month / Day / Year)
MM / DD / YYYY 08 / 20 / 2008	
HH : MM 13 : 22	HH : MM (Hour : Minute)

Scroll with ◀ / ▶ / ▲ / ▼ to set up the date and time.

After set-up, press **[M]** to save.

5 – 2. Record Setup

Record Setup	Record Setup
1. Time Stamp 2. Mpeg Codec 3. Quality 4. Resolution 5. Frame 6. Rec Time	7. Rec Volume 8. Rec ALC 9. Audio Quality 10. Motion Rec 11. Motion Sens 12. Over Wrtie

[5-2-1. Time Stamp]

Recorded date and time is stamped.

Select <<**YES**>> (**Stamped**) or <<**NO**>> (**No stamped**) and press **M** to save.

[5-2-2. Mpeg Codec]

Set up what Mpeg Codec the image is compressed. Select <<**MP4**>> or <<**H.264**>> and press **M** to save.

[5-2-3. Quality]

Set up the image quality.

Select **NORM (normal quality)** / **HIGH (high quality)** / **LOW (low quality)** and press **M** to save.

[5-2-4. Resolution]

Set up the image resolution. Select <<**320*240**>> / <<**640*240**>> / <<**640*480**>> and press **M** to save. The resolution is different when external camera is used.

◎ Differences of resolution between built-in camera and external camera ◎

	CIF (QVGA)	Half D1	D1 (VGA)
Built-in Camera	320*240	640*240	640*480
External Camera	352*240 (NTSC) 352*288 (PAL)	704*240(NTSC) 704*288(PAL)	704*480 (NTSC) 704*576 (PAL)

[5-2-5. Frame]

Set up the Record Frame Range

NTSC : 1/3/6/10/15/30F, PAL : 1/3/6/8/12/25F (each 6 ranges)

Frame is different depend on external camera

[5-2-6. Rec Time]

Set up Rec Time as Normal Mode. Select **1 or 5 or 10min** and press **M** to save. As Car

Mode with G-Sensor, file will be made even 1 minute.

[5-2-7. Rec Volume]

Select **1** (within 1 Meter) or **2** (Within 5 Meter) or **3** (Within 10 Meter) / **MUTE**, and press **[M]** to save. When record in inside, we recommend setup 1 or 2.

[5-2-8. Rec ALC]

Set up mode to protect cracking sound during recording. (Maintain the sound tone) Select **<<YES>>** (ALC) or **<<NO>>** (No ALC) and press **[M]** to save.

*** To setup quite room, the noise might be heard because sound will be amplified.**

[5-2-9. Audio Quality]

Set up Audio Quality. Select **<<LOW>>** (Low Audio Quality) or **<<HIGH>>** (High Audio Quality) and press **[M]** to save.

[5-2-10. Motion Rec]

Recording will be started only when some motion.

Setup Motion REC	After setup, press REC, green check will be shown if motion sensed and start recording.
Create File	File will be created as setup file size. Minimum every 1min file is created.
LED status at Motion REC	Flash Light Green: Recording / Light Green: Stand-by

[5-2-11. Motion Sense]

Set up motion sensitivity on motion detection function.

Select **<<NORM>>**(Detect normal motion) / **<<HIGH>>** (Detect small, quick motion) / **<<LOW>>**(Large, slow motion) and press **[M]** to save. If setup **<<HIGH>>**, small motion can be sensed.

[5-2-12. Overwrite]

<<YES>> If SD Card Memory capacity will be full, the oldest file will be deleted automatically and new file will be made.

Recorded video by G-Sensor and protected file can not be overwrite.

<<NO>> If SD Card Memory capacity will be full, no more record.

*** Overwrite is basic setup with CAR MODE**

5 – 3. System Setup

System Setup	System Setup
1. Mode Select	7. Orientation
2. Camera Mode	8. Screen Save
3. Adjustment	9. Languages
4. Record Channel	10. Buzzer
5. Display Mode	11. Set Default
6. Video Format	12. F/W Upgrade

[5-3-1. Mode Select]

Set up camcorder / camera / MP3 Player mode.

<<camcorder>> : Record video image
<<camera>> : Take Snapshot (Can not support with external camera)
<<MP3 Player>> : Play MP3 file. Other function can not be used together.

[5-3-2. Camera Mode]

Set up camcorder or camera is used.

Select **<<INNER>>** (Built-in camera) or **<<OUTER>>** (External camera) and press **[M]** to save.

When **<<OUTER>>** is set up, packaged Video cable should be used.

※ Turn off power when plug or plug-off an external camera. It cause damage.

[5-3-3. Adjustment]

Select **BRIGHT / CONTRAST / Color**. Scroll ▲ or ▼ to set preferred Brightness. Press **[M]** to save. Brightness level is 0~100, when V700G is format, the value will return to basic value when it was shipped. Can adjust built-in camera / external camera both.

[5-3-4. Record Channel]

Built-in camera with external camera, 2 channel records is available. Select **<<1CH>>** / **<<2CH>>** and press **[M]** to save.

Resolution	640*240
Frame	NTSC F15 / PAL F12
Camera Setup	Save file each recorded by Built-in/External Camera. Inverting function available.
Create File	Add "CA" at end of file name. Ex)"090810_101001CA.mp4"

[5-3-5. Display Mode]

Set up Video-out.

Select **<<LCD>>** (Built-in LCD monitor) or **<<TV>>** (External monitor) and press **[M]** to save.

※ **External monitor is set up, no image is shown in LCD. (Only Menu is displayed)**

[5-3-6. Video Format]

Depend on external camera, set up <<NTSC>> or <<PAL>>

NTSC : Available in South Korea, USA, Japan, Taiwan, Mexico, etc. Total 44 countries
(Basic set-up)

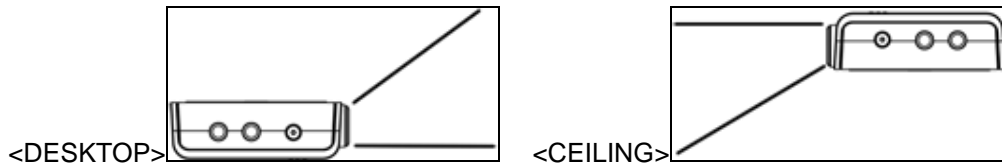
PAL : Available in Germany, England, China, Brazil, etc. Total 100 countries.

※ **PAL setting image can work only PAL format.**

[5-3-7. Orientation]

Depend on when it is installed, can set up inversion image each built-in and external camera.

Select <<DESKTOP>> (Installed in a plane) or <<CEILING>> (Installed overturned V700G)



[5-3-8. Screen Save]

Set up Screen Save function to save a battery

<<YES>> The display turns off automatically after 20seconds last key is pressed.

Recording or Power off can be confirmed LED light.

(**Flash light green** = Recording, **Light green**= Stand-by Motion REC mode,
Red = Stand by,)

<<NO>> Display Power is always ON.

[5-3-9. Languages]

Set up language

Select <<English>> or <<한국어>>(Korean) / <<日本語>>(Japanese) and press to save.

[5-3-10. Buzzer]

Set up sound / Sound-off of key operation.

Select <<YES>> (Sound) / <<NO>> (Sound-off) and press to save.

[5-3-11. Set Default]

Format V700G.

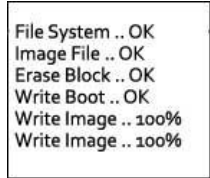
Select <<YES>> (formatting) / <<NO>> (No formatting) and presto save.

※ **The data in SD Card can not be formatted.**

[5-3-12. F/W Upgrade]

Upgrade the Firmware.

- a. Get the latest S/W from our website (<http://dvr-korea.co.kr>) and down load to your PC
- b. Copy down loaded S/W to your SD Card PC
- c. Insert SD card to CARD Slot of V700G. Power on and Press CLR⏏
- d. Select **[12. F/W Upgrade]** in **[3.System Setup]** and press **[M]**
- e. Select **<<YES>>**(upgrade) with **◀** or **▶** and press **[M]**



Upgrade will be completed in 10 second as shown right picture.

*** Note: Power should be kept ON.**

f. The power will be off automatically after upgrade is completed and power will be on again.

※ Upgrade is failed, **“F/W Upgrade fail”** will be shown on LCD. In this case, please make sure F/W file is in SD Card. If there is kindly try from above “c” again.

5 – 4 . SD Card Info

SD Card information is shown.

1. Total Capacity	Total capacity of SD Card
2. Free Space	Free space of SD Card
3. Video File	The number of saved video file
4. Image File	The number of saved picture file.
5. SD Card Format?	<p>Format SD Card</p> <p>Press [M] and select <<YES>>/<<NO>>. Press [M] to save.</p> <p>After select <<YES>> "FORMATING Please wait.... Will be shown.</p> <p>Before formatting, please back up data. All data of SD Card will be deleted after formatting.</p>

5 – 5 . Version Info


System information can be confirmed.

<p>H/W = Hardware System Information</p> <p>S/W = Software System Information</p> <p>Board Rev : Board Information</p> <p>CAR-MODE : OFF : NORMAL MODE / ON : CAR MODE</p>
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6. How to use

6 - 1. Video Image

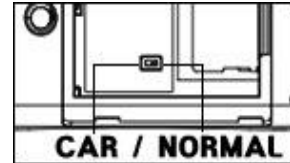
SETUP : Menu **[M]** bottom-> 3. System Setup -> 1. Mode Select -> <<Camcorder>>

Record starts after pressed 'REC'. Press CLR  to stop recording

LED light is blinking green during recording.

[6-1-1. CAR MODE / NORMAL MODE switch]

The mode switch can be seen when battery removed as below picture.



CAR MODE	Power	Recording starts automatically when car engine started and stop recording when stop engine.
	Record	Always-record., Record by G-Sensor File will be created each 1minute
	Parking Monitoring (Motion REC)	Press [M] for 2sec, 3 times beep. Switch to Motion REC mode / twice beep, switch to NORMAL mode
NORMAL MODE	Power	Start/Stop recording by manual
	Record	Press "REC" to record, Press "CLR" to stop

※ G-Sensor works **CAR MODE ONLY**.




<Video image with G-Sensor >

Recording Date, Time and XYZ coordinate value by G-Sensor is shown left side. "SOCK!" is shown on right side. When car has shock, V700G senses shock and record accident. Recorded file will be made red letter. Recorded file by G-Sensor can not be over write, it will be protected.

※ If V700G connect car adapter, 24hours can be recorded no matter with battery life time. However V700G is connected over 3~4 days continuously, please power off because discharging might be concerned.

[6-1-2. Play Video]

a. Play on the V700G

Press  on Stand by mode, recoded file lists is shown.

◎ Key Operation ◎

▲ / ▼	Volume Control/ Audio Output		
◀ / ▶	Fast Forward/Rewind playing if press longer. Press once, move frame each 5sec		
[M]	Play / Pause	CLR	Stop

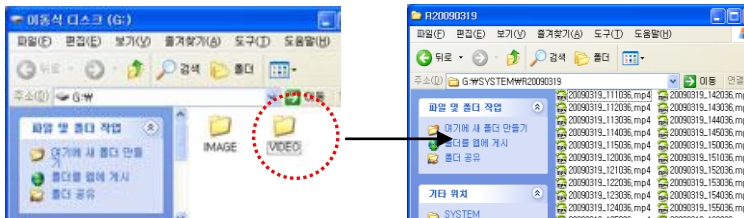
b. Play video image on the PC

Recorded image on SD Card can be shown on PC with connecting SD Card connect to PC.



※ Note: Normal Multimedia software should be downloaded to your PC to play recorded image before using.

- ① Take SD Card out from V700G and connect your PC
- ② Open the file of "VIDEO" on you PC.
- ③ Select file to play with your own S/W.



<Check Video image>

※ S/W program to play video on PC can be downloaded from our website

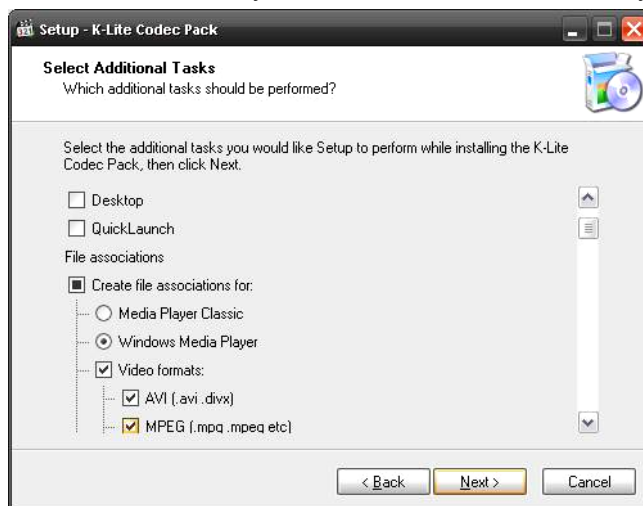
(<http://dvr-korea.co.kr>) How to use V700G by Windows media player on your PC.

Download from website(<http://www.mediafire.com/file/mngjzz1gwnq/klcodec480s.zip>)

Install K-Lite Codec standard version from above website, below window will be shown.

Check Windows Media Player and Video format at File association.

Click "Next" to complete installation. Then you can use Windows Media Player.



c. Play on the external monitor

Connect packaged AV cable to external monitor first.

Refer [5. Display Mode] at page 9 and select <<TV>>. (Blue cable is for external monitor)

d. Inverting Function

Depend of installed location, can setup inverting screen.

H-(right/left/top/bottom), -V(top/bottom), HV(right/left) is shown on the top when image is inverted. When you setup Time, you can not invert image.

Stand-by mode	Press ◀ or ▶ for 2sec, invert screen left/right/top/bottom
Menu setup	Menu - 3. System Setup – 7. Orientation – <CEILING>, <DESKTOP> Value will be deleted when you setup stand-by mode

e. File Protection

Recorded video by G-Sensor or user setup to protect some files can not be deleted.

Select file and press ◀ in file list. Select <<YES>>. Protecting file will be marked red letter.

Mac 70files can be protected. But if you format or delete file with your intention, file can not be protected. If file will be over 70files, oldest file will be over written.

f. Delete File

Press ▶ after selected file and select <<YES>>, then press **M** to save. To cancel deleting file, select <<NO>> or CLR ⏻.

※ **Note: Deleted file cannot be returned.**

g. File Name

File name is made by "YEAR" "MONTH" "DAY" "HOUR" "MINUTE" "SECOND"

Ex) **090415_104420C1** ->2009. Apr, 15th 10:44: 22 am. C1 is for built-in camera and C2 is for external camera. For 2 channel recording, file name is **090415_104420CA**

6 - 2. Snap Shot

SETUP : Menu **M** button-> 3. System Setup -> 1. Mode Select -> <<Camera>>

Can confirm Camera Mode if the camera image is shown on right side.

Shot	REC button	Resolution	640*480
Extension	JPG	Image Control	Contrast, Color, Bright
External Camera	N/A	Inversion	N/A

[6-2-1. Check Picture]

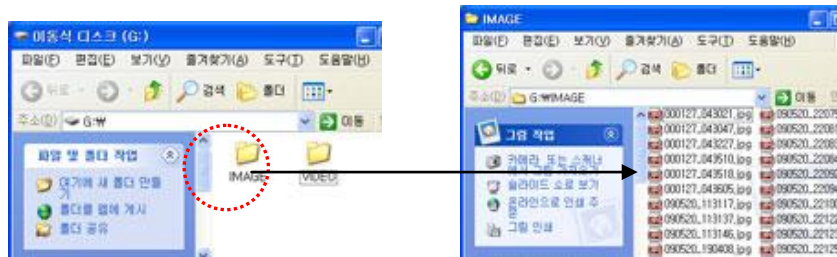
a. Check picture on V700G

Press ▶ on stand-by mode, list will be shown.

※ Can play video only in Camcorder mode. Can check picture only on Camera mode.

b. Display picture on PC

- ① Same as how to play video ①.
- ② Open “IMAGE” folder in SD Card
- ③ Select the file to open with Image Viewer.



<Check Picture list>

6 - 3. MP3 player

Can play MP3 music file by V700G.

Menu [M] button-> 3. System Setup -> 1. Mode Select -> <<MP3 Player>>

Insert SD Card to V700G, the file of “MUSIC” will be shown on display. Input music file to this folder and play.

◎ Key Operation MP3◎

File List	◀	Clear	Play	◀▶	Before/Next Music Play
	▶	Switch Play display		▲ ▼	Volume Control
	▲ ▼	Move List		[M]	Pause
	[M]	Select file Play		CLR ⏻	Menu List

7. Other Accessories

■ Bracket (option)

Optioned our Bracket is easy to assemble/disassemble as well as can be installed mount hall the back side of V700G. Can be installed preferred place on the wall and car.

※ Bracket assemble manual is indicated on the Box.

■ Wide-Angle Lens (option)

Remove socket that attached V700G and screw Wide-Angle camera.

With wide-angle lens, the view angle side to side will expand by 115°.

By expanding view angle, the image might not be displayed clearly



<Without Lens / With Lens>

■ External Camera (option)

No need additional external power if external camera is 12V, but external camera dose not 12V, the adapter for external camera should be used.

※ **Refer to 4. Before Setup on page 4** -> External Camera

※ **Refer to 5 – 3. System Setup -> [2. Camera Mode]**

※ **External camera is not included in package. Please prepare customer side.**

※ **We are not responsible for External Camera .**

※ **Please use specified Voltage for adapter and external camera. Otherwise it might cause product damage.**

■ About SD Card

- SanDisk SD card that support (512MB ~ 16GB) is recommended to use.

However, all of SanDisk cards can not be guaranteed to use.

- Power should be OFF when SD Card is inserted / removed.

- Do not give shock to card and use watered card.

- All recorded will be deleted when SD Card is formatted. Please save imaged files to the PC.

- During formatting SD Card, do not take SD Card out from V700G and do not turn off the power. It cause product damage.

■ Purchase Accessory

Available to purchase accessory through our website.

8. Recording Time List

※ Please refer to above list as standard.

The result is came from best condition of V700G, there might have some differences.

※ Depend on moving location, brightness on the place, the result might be changed.

※ Rec Time is longer with Low quality as well as Low Frame Range.

Image Quality	Frame	Rec Time (Hours)	Image Quality	Frame	Rec Time (Hours)
		2GB			2GB
HIGH (QVGA)	30F	4	HIGH (VGA)	30F	2
	15F	7		15F	5
	1F	42		1F	35
NORM (QVGA)	30F	7	NORM (VGA)	30F	5
	15F	13		15F	9
	1F	50		1F	45
LOW (QVGA)	30F	13	LOW (VGA)	30F	9
	15F	21		15F	16
	1F	55		1F	53

9. Specification

LCD	1.8 Inch TFT			
Lens	2.4mm (F 2.8) Pinhole			
View Angle	Normal 60° / With Wide-Angle lens Horizon:115°, Diagonal:150°			
External Camera	Unser 12V 150mA			
Image Sensor	1/6 Inch CMOS CAMERA. 30,000 pixel			
G-Sensor	Built-in G-Sensor (CAR MODE ONLY)			
Minimum Lux	3 Lux			
Recording	MPEG4, H.264			
Video In/Out jack	NTSC/PAL COMPOSITE (1.0 Vpp, stereo jack) 1CH Jack (Use only AV cord)			
Audio In/Out jack	Built-in high sensitivity microphone, 1CH Stereo Jack			
Record Channel	2 channel recording(built-in/external camera) 640*240, 15F			
Monitor Resolution	160x128			
Resolution		CIF (QVGA)	Half D1	D1 (VGA)
	Built-in Camera	320*240	640*240	640*480
	External Camera	352*240 (NTSC) 352*288 (PAL)	704*240 (NTSC) 704*288(PAL)	704*480(NTSC) 704*576 (PAL)
Frame	NTSC 1/3/6/10/15/30fps, PAL 1/3/6/8/12/25fps			
Video Quality	3 Levels HIGH / NORM / LOW			
REC Volume	4 Levels 1(1m) / 2(5m) / 3(10m) / MUTE			
Audio Quality	2 Levels High / Low AAC (44.1Khz, 16bit, 32Kpbs/8Khz, 16bit, 32Kbps)			
Motion Sens	3 Levels HIGH / NORM / LOW			
Recording Media	SD Card (512MB~16GB)			
O/S	RTOS			
Power	Input	DC5V (AC adapter)		
	Output	External Camera 12V 150mA		
	Battery	3.7V 1100mAh (Lithium ion battery)		
Size · Weight	92.5(W)x54(H)x18(D)mm / ARO 82g			
Temperature	+0 ~ +60 °C			
Package	Battery, AC Adapter, SD Card (2GB), AV Cord, Earphone			

Warranty

■ Quality Warranty

1. This product is manufactured by high quality control and inspection.
2. We will repair the defect with free charge within warranty term if customer use correctly.

■ Warranty Condition

- Free-charge service : Within One year from date of purchased, if the problem is determined by product defect.

- Paid-service

- Expire the warranty term
- Below is not included Free-charge service.

Problem caused by Natural disaster, Lightning, Flood.

Un-appropriated operation by customer(Dropped, Watered, Shocked, Broken)

Damaged by Power or charger, etc

Body	Accessory	
One year (From date of purchased)	6 months	Adapter, Battery, Bracket
	Excluded warranty	Card Reader, Cable

* No repairing can provide for accessory, replace only.

* Backup Important date, we can not take a responsibility.

Purchased : Year Month day

Customer :

Customer Service

K-Pro Korea Inc.

<http://dvr-korea.co.kr>