

# Digital Video Recorder in REAR VIEW MIRROR GPS

## 1, OUTLOOK, INTERFACE AND BUTTONS



## 2, FEATURES

Support motion detection with adjustable monitoring area & sensitivity

Photo capture supports 640x480(VGA) and 320x240(QVGA) resolution by JPEG format

Movie recording supports 30fps@640x480(D1) and 30fps@320x240(QVGA) by MJPEG format

Support automatic photo capture for 1/3 photos or 5/10 sec recording after motion detection.

Support pre-recording, up to 10sec

Built in real time clock (RTC) function

Support micro SDHC up to 32GB

Support un-limited recording (based on the card capacity)

Support clipped recording and storage mode

Support playback mode, it's able to browse and playback the picture in JPG and AVI file by uniprocessing

Support file overwrite, but it's necessary to use micro SD Card over 256MB

## 3. Error Message Definition

Problem	DESCRIPTION
No card	Please insert a TF card.
The time is no updated	The clock is bad.
FIELD_Chk ERROR	The SQ126A field check error
Partition Error	Disk format error
CARD SPEED LOW	Movie record (onto SD card) failure because of slow SD card speed

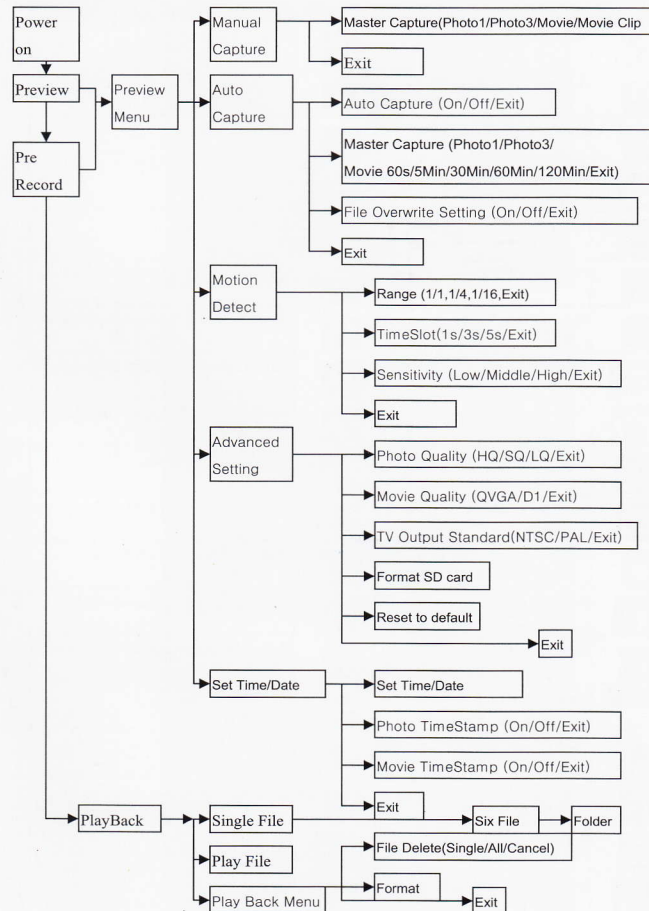
## 4. System Key Definition and Usage

key	Status	Preview	Preview Menu	Playback	Playback Menu
Power ON/OFF		Switch to "ON", power on the system. Switch to "OFF", power off the system.			
DVR_GPS		Switch to "DVR", the TFT LCD will display the DVR screen. Switch to "GPS", the TFT LCD will display the GPS system.			
GPS MENU		Return to the main Menu of GPS system			
MODE		Switch to Playback		Switch to Preview	
REC		Capture    Movie/ Photo	/	Play/Pause AVI file	/
DVR MENU		to Preview Menu	ok	to Playback Menu	ok
UP, DOWN, RIGHT, LEFT		/	up/down/right/left ft	up/down/right/left Down: Exit File Up: Return Menu	up/down/right/left

## 5. Status and Instruction Message Definition

CODE SYMBOL	DESCRIPTION
FW LOADING..	FW update loading binary code
FW UPDATING	FW update writing binary code to SPI
FW UPDATE OK	FW update successful
FW UPDATE FAIL	FW update failed
UI DATA LOADING..	UI update loading data
UI DATA UPDATING..	UI update writing data to SPI
UI DATA UPDATE OK..	UI update successful
UI DATA UPDATE FAIL	UI update failed

## 6. Function Flow:



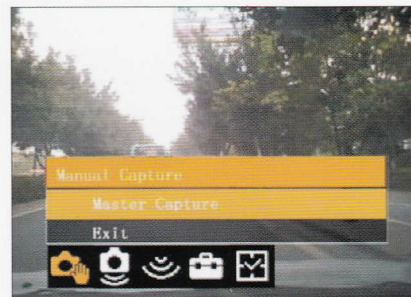
## 7, OSD Status Identification

NO	ICON	DESCRIPTION	NO	ICON	DESCRIPTION
1		Manual Capture Settings	20		Motion detect off
2		Automatic Capture Settings	21		Motion detect on
3		Motion Detection Settings	22		motion_detect_02
4		Advanced Settings	23		motion_detect_01
5		Set Time/Date	24		motion_detect_00
6		Channel One Video	25		Manual Capture Single-photo Capture
7		Channel Two Video	26		Manual Capture Three-photo Capture
8		Folder	27		Motion Detected Capture Single-photo
9		Photo File	28		Motion Detected Capture Three-photo
10		Movie File	29		Manual Capture Video
11		Movie Clip File	30		Manual Capture 5-min Movie
12		SD Card OK	31		Manual Capture 10-min Movie
13		SD Card Locked	32		Motion Detected Capture 5-sec Movie
14		No SD Card	33		Motion Detected Capture 10-sec Movie
15		Movie Recording	34		Mode Playback AVI
16		Save	35		AVI Playback Pause
17		Delete	36		AVI Playback Stop
18		Recycle	37		AVI Playback Play
19		Warning	38		Wait

## 8, PREVIEW



## 9, PREVIEW MENU – MANUAL CAPTURE SETTING

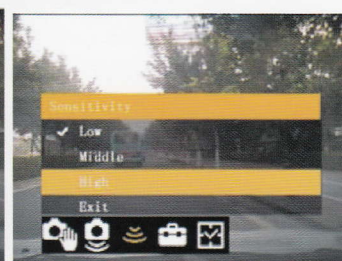
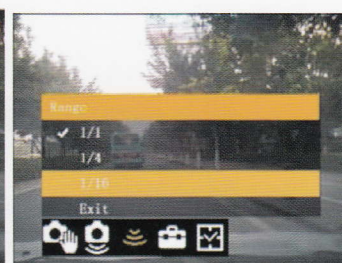




## 10, PREVIEW MENU – AUTO CAPTURE SETTING

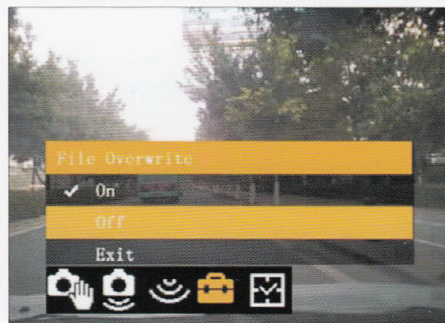
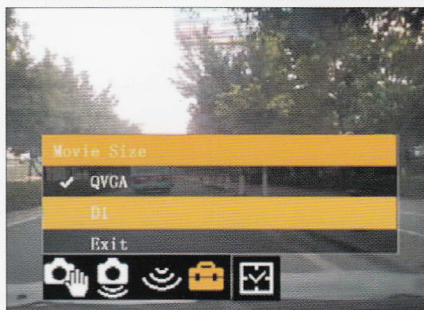


## 11, PREVIEW MENU – MOTION DETECTION SETTING

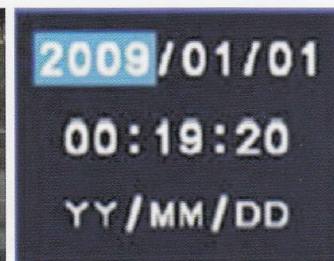


## 12, PREVIEW MENU – ADVANCED SETTING





## 13. PREVIEW MENU -TIME/DATE SETTING







14, PLAYBACK



15, PLACKBACK MENU





#### 16, SYSTEM PERFORMANCE TABLE

NO	ITEM	VALUE	DESCRIPTION
1	Frame Rate (Single View)	>25 FPS	No Motion Detection
2	Get Video on Preview	<2 SEC	Initial system and first show on screen
3	Switch Channel Display	<1 SEC	Click DISP to switch channel display, including PIP.
4	Monitor Switch to Playback	<2 SEC	Click Mode from Preview Mode to Playback Mode, with SD Card inserted
5	Playback Switch to Monitor	<2 SEC	Click Mode from Playback Mode to Preview Mode, with SD Card inserted
6	Menu Open/Close	<1 SEC	Click OK/Menu to open or close menu