SDVR104F

General Introduction

The Mobile SD video recorder is a compact, full-featured recording system that uses a SD card as a storage device. The recorder unit and associated accessories are specifically designed for operation in a mobile environment.

The Mobile SD video record system, used in conjunction with the cameras, records up to four channels of full-motion video and audio data to a removable SD card. The firmware-driven menu system provides a simple method for configuring the unit's operation as well as searching for and viewing previously recorded AV records.

1.1 Video And Audio

High Profile video compression, real time recording 30 fps. Frame rate adjustable for each channel.
Audio compression: G.711 codec. This codec offers high compression with high quality audio.

4 channels 1080P resolution for analog camera

1.2 Power Management

Reliable power management, wide voltage: +12VDC~+32VDC; The power input is protected against short positive transient (1500 watts peak pulse power capability with a 10x1000 us waveform); The power input is protected against negative voltage. Applicable for vehicles with +12V or +24V battery.

The recorder provides each camera with stable +12V DC power; DVR can detect the short cut on power circuit.

Can use ignition to control the power.

DVR can monitor battery voltage after Ignition off, and auto into sleep mode when voltage is bellow specified level.

1.3 Recording Mode

Continuous record.

Support schedule recording.

Support alarm recording.

Support alarm pre-recording and post-recording.

Support motion detection recording.

1.4 GPS Time Synchronization & Time Zone

Synchronize the DVR system time with GPS automatically

Support All Time Zones Worldwide

Support DST (Daylight Saving Time)

1.5 Speed And vehicle status recording

Record vehicle speed and car id with audio and video.

Support 3 sensors, can be connected to speed, ignition, brake, return, right turn, left turn light etc.

Over-speed alarm and trigger recording with separated files

1.6 Hard Disk

Not support

1.7 SD Card

Support SDHC card within 32GByte.

Support SDXC card more than 64GByte (Maxim 2048GByte)

Support hot-plug when the DVR system is not recording or remote-operation(remote copying or playing back)

Note: If you remove the SD card while recording or operating (remote copying or playing back), it might cause the damage of the files on SD card. While recording, the yellow light on the front panel will be on. So please stop recording or operating until the yellow light is off if you need to remove the SD card.

1.8 Multiple Player Supported

VLC media player (version1.0.0 or above);

Storm player (Version 2009 or above);

Winamp (Version 5.531 or above).

Picture		
Model		**SDVR104F**
System	Operating System	Linux 4.9.138
	Start up Time	<20 s (From Powered on to start recording)
	Operator Interface	English / Simplified Chinese/Russian
	Storage	SD Card (up to 256GB)
	UI	GUI
	Video System	support 1080p30 recording
Video	Video Input	Maximum for 4x 1080p/720p Analog/AHD cameras
	Video output	2 Video Output (1 MINI-HDMI output + 1 CVBS output, MINI-HDMI is optional)
	Preview	Support FullScreen/Dual View/Quad View
	Standard Stream	ISO 14496-10
	Recording Resolution	Support 1920x1080/1280x720/960x540
	Recording	Supports normal, schedule, alarm recording and continuous
	Record File	AVI file, record video and audio at same time
	Bitrate	100 ~ 8000 kbps for each camera
	Max fps (total)	85fps@1080p
Audio	Audio Input	4 audio input (audio is built in the camera)
	Audio compression	PCM
Interface I/O	LAN	1(RJ-45) 10M / 100M Ethernet port
	USB	One USB 2.0, can be used for mouse, USB stick

	RS485	One RS485 port
	Serial	One RS232 port (For GPS)
Network	WiFi(Optional)	Build in 802.11b/g/n AP, speed up to 300Mbps
	Protocol	TCP / IP
	Communication (Optional)	build in 3G/4G(HSUPA/HSDPA/WCDMA/EVDO/TD -SCDMA/FDD-LTE/TDD-LTE)
Alarm & Sensor	Inputs	3 Alarm input, 1 ignition, 1 Panic button, G-Sensor
	Outputs	1 beeper, Alarm OSD
	Multi-mode	Activation by video loss, maximum permissible speed, Collision, stroage space, Video Motion, etc..
Power Supply	Ignition key	Recording starts when ignition is on, stops with delay time when ignition is off.
	Power Consumption	Less 5.0W (No camera power consumption included)
	Power Input	12VDC ~ 32VDC
	Power Output	11.5V/1.5A (4 channels)
G-Sensor	G-Sensor	Support for three-axis motion detection
Physical Characters	Dimension	118x92x20 mm
	Weight	About 0.2kgs
Others	Backup	By WiFi (300Mbps, Actual download speed up to 150Mbps)
	Clock	Internal, permanent calendar, Time sync from GPS (if available)
	GPS	Support GPS/GLONASS/BEIDOU， recording location, speed, live tracking
	Function Dual Streaming	Two different bit stream for recording and live streaming via 4G/3G
	Self-protection	Protection against overload, short circuit and reverse polarity
	Reset	Option to return to factory default setting
	LED's	Indicates Power, RUN, Alarm, Media Access, Recording status, network and 3G/4G
	Method of writing and reading of data	Overwrite ON/OFF selectable

Environment	Operating Temperature	-25 ~ 55°C
	Relative humidity	5% ~ 93%
	Vibration resistance	< 3 Grms
	Resistance to mechanical shock	< 1200 Grms
ACC	<4.5V	Ignition Off
	>6.2V	Ignition ON
Embedded Software	Config. FPS per channel	allows (1~30fps)
	ID records vehicle license plate	Support
	USB	Support
	Rename channels	Support
	Watermark	Includes date and time, latitude and longitude, vehicle speed, and vehicle ID plate and name or channel number
	Schedule	Settings hour, minute, 3 time plans per day
	Image Playback	Support play back, file listed by date and time, alarm
	Firmware Upgrade	Can use hard disk/USB disk/SD card/remote upgrade via 4G
	Playback Speed	Support from 1/32 to 32
Software	hPlayer	Player software, play multiple cameras together, can also play the encrypted file
	CMSV6	Used for 4G/3G model only, support live view/live tracking/historical track/remote upgrade