G-V305 series multimedia vehicle traveling data recorder specification 3G/4G

Digital video compression and 3G wireless transmission technology based on the combination of GPS / BeiDou positioning monitoring, information display, car DVR, car recorder, SD card storage, driver IC card identification, data interface, voice call function. In accordance with the national standard GB-T 19056-2012/ standard.

The requirement of JT/T794-2011/ DB44/T578 standard in Guangdong is a fully functional multimedia vehicle traveling data recorder.

main features

1.Modular functional design, truly integrated digital video storage (Digital Video Record), GPS monitoring, vehicle scheduling and management of all functions.

2. Support GPS/ Beidou dual mode positioning.（Optional）

3. 4 way /6 video input, 4 channel audio input, to achieve full real-time vehicle, full range audio and video surveillance and video.（4 way /6 video input optional）

4. A variety of 3G /4G communication modules can be configured to realize real-time video wireless transmission.(3G /4G communication optional)

5. The SD card pre protection device and the unique file storage mechanism are designed to ensure the safety and reliability of the large capacity storage data in the vehicle harsh environment.

6. Real time video storage supported by dual SD card.（Support dual card, single card, maximum support 128GB）

7. The multimedia driving record analysis software realizes the audio and video, GPS track, driving record and accident doubtful information, as well as the synchronous replay and analysis of alarms and events.

8. The built-in high-quality TTS text voice broadcast function.

9. Rich intelligent interface, can connect all kinds of on-board intelligent equipment.

10. It has the function of terminal power-off storage

11. Support delay video storage, support remote extraction, view SD card video.

12. Intelligent line remote update: the central release line task, terminal realize automatic line download, line comparison, site information, broadcast voice, segmentation speed limit and other update function. (The bus type machine exclusive)

13. WIFI module can be built, through the WIFI module can transfer video and hot sharing （Customized）

Product functio

1. video function: using H.264 video compression technology to realize 4 way image real-time monitoring, timing record, event recording, alarm recording function, image resolution D1/Half D1/CIF optional.

2. double SD card storage: use double card large capacity SD storage image, use patent file format to record strong correction function, adapt to vehicle environment video and data file security.

3. image transmission function: through the 3G wireless network can real-time transmission of surveillance video, double bit stream transmission, adjustable speed. You can upload, snap and alarm pictures.

4. analysis of multimedia function: the multimedia recording and analysis software, can realize the synchronization of audio and video playback 4 playback, storage, editing, conditions of adding characters, geographic information and driving record overlay function, event analysis and record extraction function.

5. the vehicle GPS monitoring function: automatic monitoring and positioning function, regional settings, electronic fence function, GPS mileage statistics, vehicle mileage statistics, blind bubao function, memory function, track station auxiliary vehicle position.

6. signal detection and control: 10 switch signal input, 1 speed sensor signal input, 5 relay control output. Intelligent and forced power off control, camera power control, and definable standby output control.

7. alarm: alarm, emergency alarm, parking overtime alarm, overspeed alarm, overspeed warning, fatigue driving alarm, alarm, power off, off line low battery alarm, GPS fault, GPS antenna short-circuit alarm.

8. road detection function: to achieve yaw, segment speed limit prompt and alarm, enter / out station report, site related control.

9. voice and call function: car hands-free telephone, remote monitoring function, voice prompt device function, TTS text voice broadcast function.

10. VOIP voice intercom: wide receiver mark can achieve VOIP voice intercom between the driver and the center

11. travel recorder function: communication information display function, vehicle driving information display, information collection and storage, driver identification, parameter settings, data export / import, data and information printing.

12. the car CAN bus function: optional built-in CAN bus or configure the bus controller, to achieve data reading, safety monitoring, fault code upload and clearance, mileage fuel acquisition and other functions.

13. Han display information screen: the use of 8x4 Chinese monochrome display screen, display positioning, driving, scheduling, data information. Keys can access information and menu settings.

14. cloud Guardian function: support remote fault diagnosis and debugging, remote automatic program maintenance, remote parameter configuration, terminal operation statistics and other remote "cloud" guardian function.

15. voice assistant: can install the external signal line, the external device and set the parameters of automatic detection, the use of voice interaction detection Installation Tips, help installation personnel to install self, to ensure that the equipment is installed correctly.

performance parameter：

Hardware characteristics	
Hardware architecture	Unique dual core construction industrial chip architecture
communication mode	WCDMA、EVDO、TD-SCDMA、LTE
reliability design	Power supply 4 protection, 4 level watchdog
Circuit board protection	Environmental protection three protection silica gel protection
DVR performance	
Code format	H.264
Resolving power	WD1、D1、Half D1、CIF Optional
Frame rate and bit rate	1-25fps adjustable 32K ~ 20M Bit/s
Video mode	Continuous video, circular video, regular video, alarm video
Flameout delay video	Time-lapse video after car flameout.
Video input / output	4 channel /6 video input, 1 channel video output
Audio input	4 channel audio input
Audio coding protocol	Support AMR, G711, G726, ADPCMA and other coding protocols
Picture taking function	The pictures support three resolutions of 160 x 120, 320 x 240, 640 x 480
SD card interface	2 front panel SD card slot, single card maximum capacity 128G
Camera power supply	Built in controllable 12V output
Performance index of traveling data recorder	
Display	132 x 64 monochrome dot matrix screen can display 8 x 4 Chinese characters
Vehicle detection interface	16 digital input (10 high level, 3 low level, 3 way 3 state input)
Vehicle mileage pulse input	1 way (mileage pulse coefficient adaptive function)
Analog input interface	2 way AD input
communication interface	4 way RS232 interface, 1 way USB interface, 1 way 485 interface, 2 way CAN interface
Voice interface	1 hands free call, built-in microphone can monitor
Voice prompt	Built in voice prompt, high quality TTS
Driver identification	Built in contact IC card reader
technical specifications	
working voltage	9～36 V/DC
Limiting voltage	100V/DC
Battery protection voltage	8.5V /12V ——17V/24V
Anti reverse voltage of power supply	≥100V
temperature characteristic	The working temperature is -30 ~ +70 centigrade The storage temperature is -40 ~ +85 centigrade
Average working current	Average working current: 250mA@24V (peripheral power supply) Maximum operating current: 1000mA@24V (4 cameras working and night vision lights on)
Power saving mode	＜150mA DC 24V
Outline size	189x 142 x 58 mm (L x W x H)

Shell material	Panel industrial plastics, electrolytic plate for casing
Installation method	Embedded mounting and mounting bracket mounting of automobile panel
Satellite positioning function (GPS/ Beidou)	
Positioning time	Cold start is less than 34 seconds; thermal start is less than 3.5 seconds; temperature start is less than 33 seconds, re capture time is 1 seconds
positioning accuracy	10 meter 2D RMS
Velocity accuracy	0.1m/s
Location accuracy of base	100m