



Solution:

1. **DSM** camera also main host terminal, **4 channels** HD video inputs with **H.264** compression mode.
2. Strong AI chip with **1.0T** computing ability, neuron logical analysis mode, deep learning algorithm.

Main functions:

3. **DSM** [Driver State Monitor]: give reminder to driver, send event data and even evidence to platform for behaviors like: fatigue driving (eye close, yawning), distraction, smoking, making a call, etc.
4. **Facial recognition**: recognize driver for checking attendance and avoiding unauthorized/certificated driver to take the drive.
5. **ADAS** [Advanced Driving Assistant System]: Support FCW(Forward collision warning), HWM(Headway monitoring), LDW(Lane departure warning), etc.
6. Integrated high-sensitivity 1MIC, 1ch audio input to optional recording and intercom ; integrated 1 speaker, TTS audio broadcast and efficient warning prompts.
7. Built-in G-SENSOR module, realize automatic alarm upload of abnormal vibration, rollover, impact and sudden braking
8. Support GPS/BD tracking module to realize the management of speed, position, time and route.
9. Support positioning module abnormality and antenna abnormality alarm
10. Integrated **4G, WIFI module**, for remote monitoring management and system configuration, maintenance.
11. Support multiple platforms, **web** and **app** for monitoring at any time, anywhere.

*BSD function and Driver physiological state detection are under development

12. ***BSD** [Blind Spot Detection]: Detection pedestrian, bicycler or motorcycle the blind area of HGV.
13. ***Driver physiological state detection**: High accurate mode for fatigue driving detection. Adopts physiological detection radar to monitor driver's heartbeats and breathe without contact. Can give early alarm to abnormal body state of driver to avoid serious accidents.

Structure:

14. Adopts ABS material, super mini size, industrial structure for safety of data card, SIM card and port connection.

15. Good heat-dissipation design, can work under max 75 Celsius degree.
16. Neat wire, scientific installation diagram design, save installation time and cost. Just need **1/20** of normal installation time.
17. With 5 status indicators, to control status of the device easily
18. Optional 1 alarm button to emergency and snapshot picture, save up to **16 lines** for alarms entering and leaving the area.
19. 8V~36V adaptive wide voltage input, ultra-low power consumption. Support reverse connection protection, voltage overcurrent and overload protection, support 12V power output
20. Support dual card (SD+TF card) storage, single card supports up to 512G. Support hot swap
- 21. 1 MICRO USB** to backup data or device upgrade, **1CH RJ45** to realize AI functions with other normal MDVR.
- 22. 4 alarm inputs, 1 alarm output.** ICH RS232 or RS485 optional to extend other peripheral
23. Ultra-low power consumption in **sleep mode** for GPS tracking, support delay-off recording.
24. Super mini size and **easy-installation** design. Continuous monitoring under the environment of **-30°C~70°**.
25. Free platform software, mobile App, web, client App, for professional and effective fleet management.