C6D AI Specification

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Product Characteristics

1.1. Overview

Streamax C6DAI-M is a cost-effective device specially developed for remote video and driving safety monitoring of trucks. Its features are shown below:

- The product has three components: C6DAI host (ADAS), DSM-L camera and IP camera;
- The product integrates multiple modules, such as 4G, WIFI, Bluetooth and G-sensor and is quite versatile;
- The product supports GPS positioning, real-time record of vehicle track for analysis;
- The product supports dual-SD card recording storage. Up to 256GB storage can be supported for one SD card;
- The product supports remote monitoring and recording;
- Special file system to ensure recording data security and protect personal privacy;
- Industrial design, aluminum alloy shell and massive heat sink for good heat dissipation;
- Compact and lightweight host can be easily mounted on the front windshield;
- The product supports 720P, 960P, 1080P HD resolution recording;
- The device is able to intelligently recognize forward vehicles, lanes and traffic scenarios via the ADAS camera. Therefore, it effectively forecasts driving risks, like too close following distance, forward collision and lane departure by referring to the vehicle operating;
- The product intelligently recognizes driver distraction, fatigued driving, phone calling and smoking via the DSM camera. It effectively reduces fatigue-induced traffic accidents by referring to the vehicle operating;
- The product uploads the alarm event and related video evidence to the cloud platform, offers real-time alarm and keeps on-site evidence to help restore the truth.

Label

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

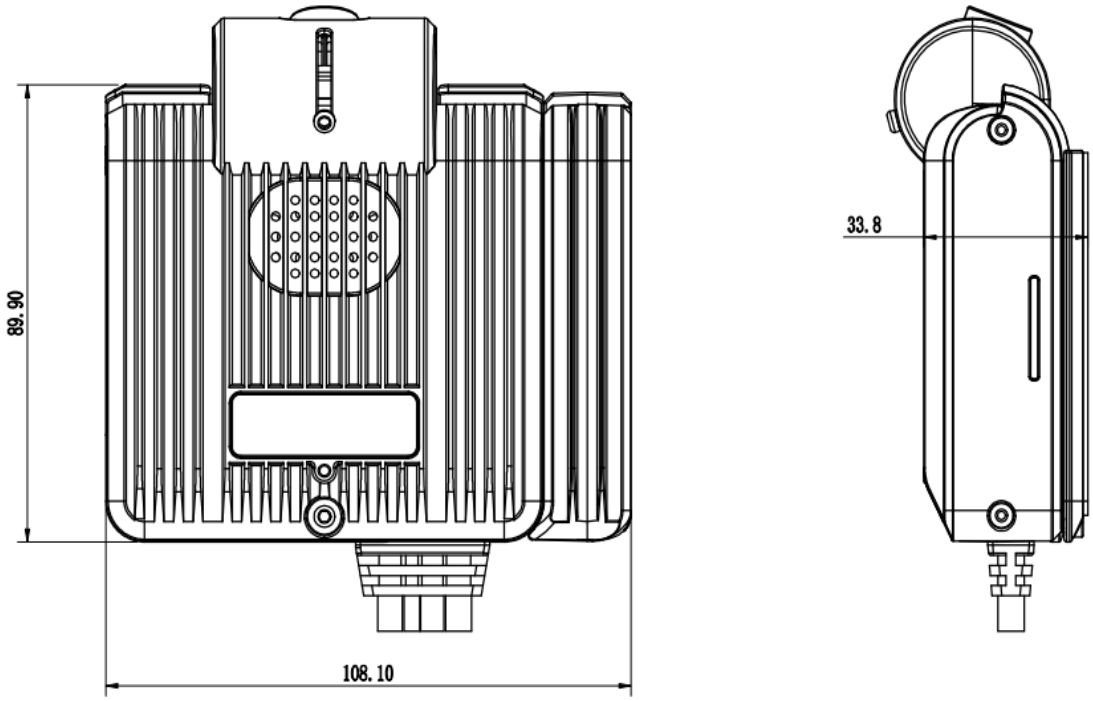
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

1.2. Specifications

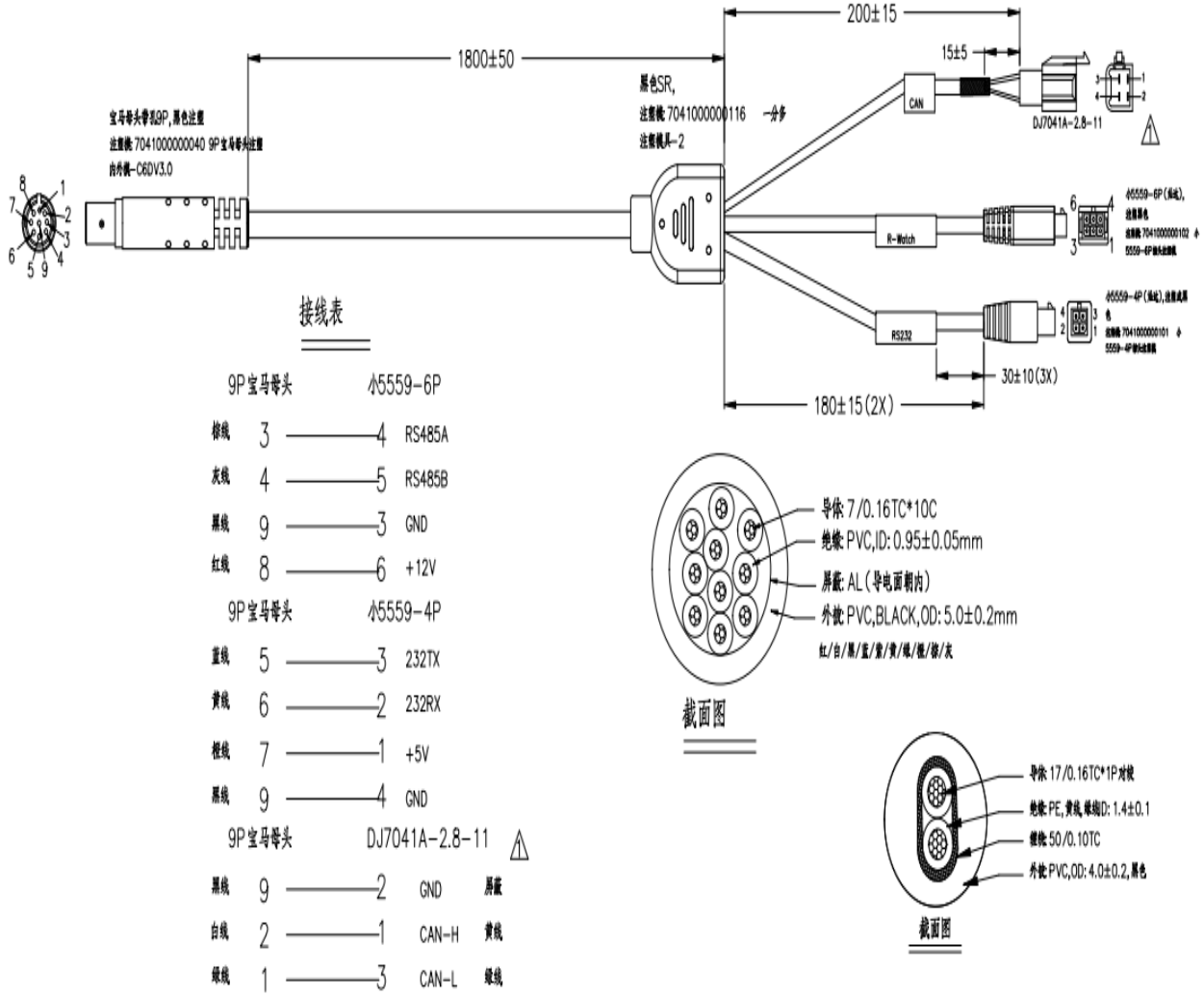
Model	C6D AI	
Network	WIFI	Support
	Bluetooth	Support
	3G/4G	Support
Positioning	GPS	Support
Sensor	6-axis sensor	Support
Taximeter function	CAN data collection	Support
Indicator for working conditions	The indicator can show four different device states: Power on: the red light flashes after the device is powered on; Normal operation: the green light flashes Failure alarm: the red light flashes once every second; Upgrading: the indicator flashes twice every second;	
Storage	SD Card	SD card with SDXC64G/128G/256G and hot plugging supported
Audio & video	Audio & video recording	3 channels for video and 1 channel for audio
	Resolution and frame rate of primary stream	ADAS:1080P@30fps DSM:960P@30fps
	Total resource	1080P@30fps+960P@30fps+720P@30fps, 3-channel sub-stream CIF@15fps
	Image settings	Brightness, chroma, contrast, color saturation and sharpness adjustment
	Video coding	H.264/H.265
	Audio compression standard	ADPCM/G.711
	CBR/VBR	Support
	Audio input	Support
	Built-in loudspeaker	Built-in loudspeaker for broadcasting voice message

Camera parameters	Sensor types (ADAS)	1/2.9" 2M pixel CMOS Sensor
	Shutter speed	1/30s-1/100000s
	Lens	4mm
	Lens interface types	M12
	Wide dynamic range	D-WDR
	Backlight compensation	Support
	S/N	≥48db
Interface	RS232	1 channel
	RS485	1 channel
	IO alarm input	4 channels
	IO alarm output	1 channel
	CAN	1 channel
	Power output	5VDC@500mA，12VDC@500mA
Protocol	Network protocol	HTTP,TCP,ARP,UDP,FTP,DHCP,DNS,IPV4,NTP
Information related to power supply	Power supply	9-36V
	Internal battery	Do not support
	Typical power consumption	6W
	Power consumption	Less than 9W
General specification	Working temperature	-30℃~+70℃
	Storage temperature	-40℃~+85℃
	Humidity	0% - 90%

1.3. Dimension (Unit:mm)

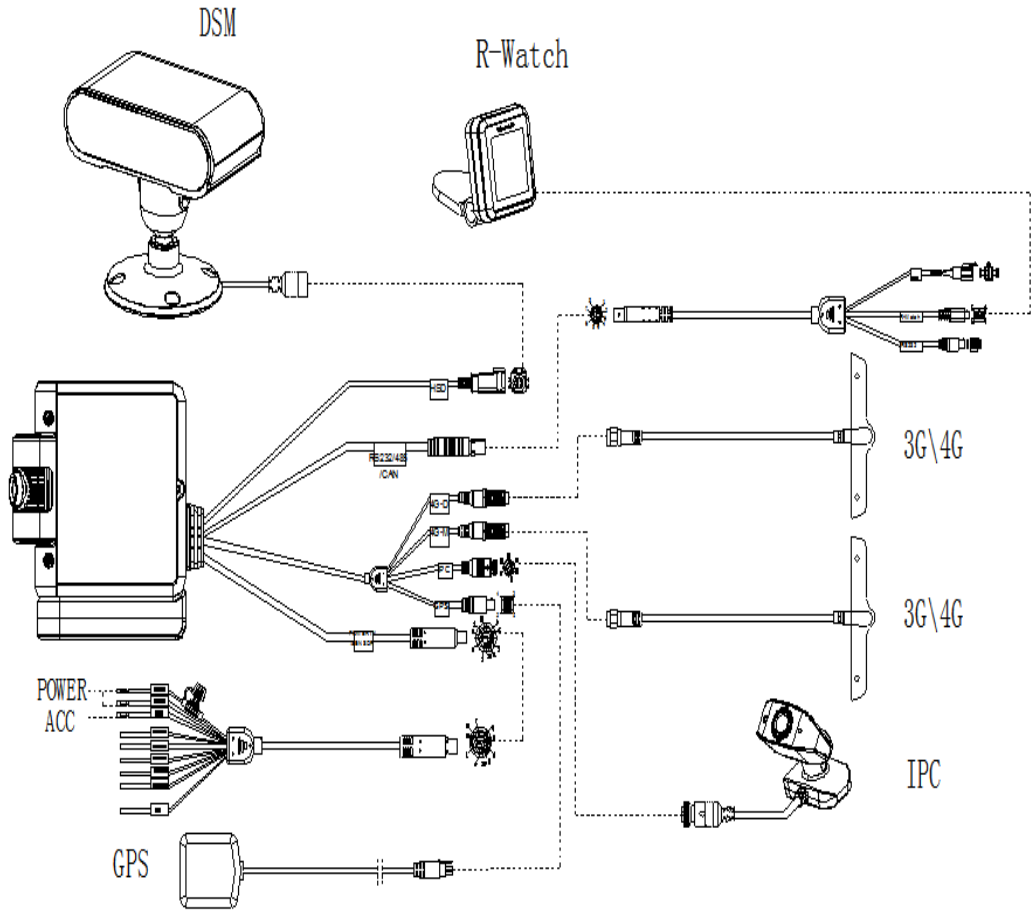


1.4. The Definition of Cable Interface



No	Items
CAN	DJ7041A-2.8-11 connector
RS232	MOLEX 5559 4PIN connector
R-Watch	MOLEX 5559 6PIN connector

1.5. System Connection Diagram



warning:

External antennas are only suitable for antennas of type C6D-3000TKX placed in accessories boxes, and other external antennas are prohibited from use. BT, WIFI supports a maximum antenna gain of 3.14 dBi. 4G band 2 supports a maximum antenna gain of 3.09 dBi, 4G band 4 supports a maximum antenna gain of 4.53 dBi, 4G band 5 supports a maximum antenna gain of 2.52 dBi, 4G band 12 supports a maximum antenna gain of 1.92 dBi, 4G band 13 supports a maximum antenna gain of 2.17 dBi, 4G band 14 supports a maximum antenna gain of 2.78 dBi, 4G band 66 supports a maximum antenna gain of 4.53 dBi, 4G band 71 supports a maximum antenna gain of 1.69 dBi,