
VT3500-AI Specifications



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1. Product Overview

VT3500-AI is a cost-effective device specially developed for remote video and driving safety monitoring of trucks. Its features are shown below:

- Imbed ADAS & Cabin camera, all in one AI product
- Abundant modules including 3G/4G, Wi-Fi, G-Sensor
- Support GPS positioning, real-time recording of vehicle track for analysis
- Dual TF card recordings, support up to 256GB each
- 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
- The product supports 720P or 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
- Support OBD power supply
- Support 100Hz G-sensor ingestion



2. Specifications

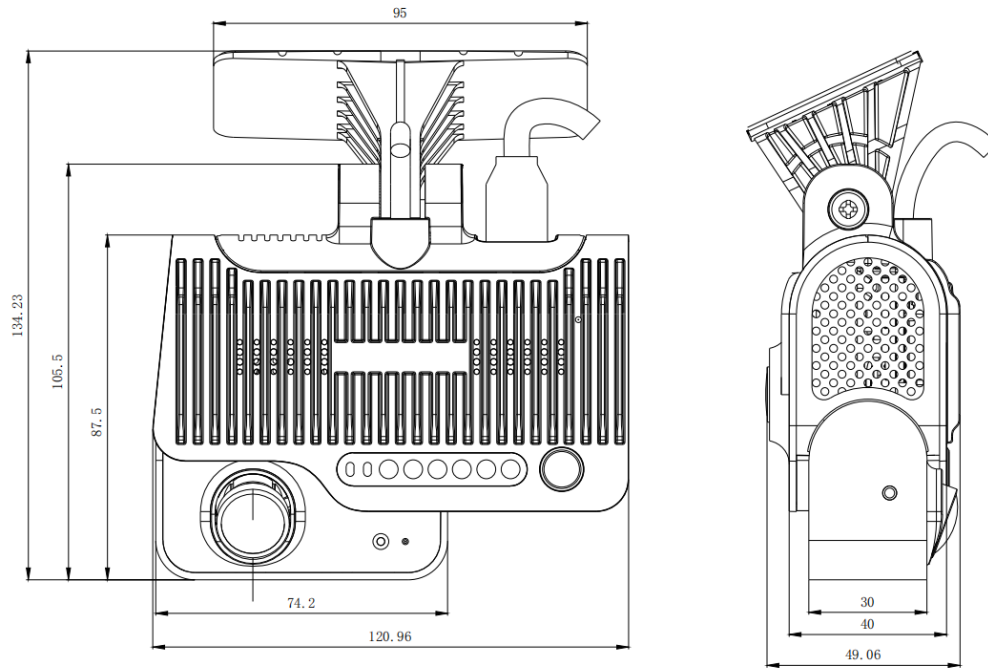
Model	VT3500-AI	
Network	WIFI	Support 2.4G&5.8G
	4G	Support
Positioning	GPS	Support
Sensor	6-Axis Sensor	Support
Taximeter Function	CAN Data Collection	Support
Indicator for working conditions	Dual indicators for alarm and error.	
Storage	TF Card	2 TF card with 256GB @Maximum each.
Audio/Video	Audio/Video Recording	4 channel videos (2 standard & 2 expanded) 1 channel audio
	Resolution and Frame Rate of Main stream	DSC: 1080P@20fps ADAS: 500MP@20fps
	Total Resource	Main stream: 5MP@20fps(ADAS)+1080P@20fps(DSC)+1080P@20fps(AHD) + 1080P@20fps(IPC) Sub stream: 4*CIF@30fps
	Image Settings	Brightness, Chroma, Contrast, Color Saturation and Sharpness adjustment.
	Video Coding	H.264/H.265
	Audio Compression Standard	ADPCM/G.711/G.726. G.711 as default.
	CBR/VBR	Support, VBR as default.
	Audio Input	Imbed MIC
	Speaker	Imbed 1.5W 8R
ADAS Camera Parameter	Sensor Type	1/2.7" 5 mega pixel CMOS Sensor
	Shutter Speed	1/30s-1/100000s
	Lens	2.8mm
	Lens Interface Type	Imbed Lens
	Wide Dynamic Range	D-WDR
	Backlight Compensation	Support
	S/N	≥39dB
Cabin Camera Parameter	Sensor Type	1/2.8" 2M pixel CMOS Sensor
	Shutter Speed	1/30s-1/100000s
	Lens	2.1mm
	Lens Interface Type	Imbed Lens
	Wide Dynamic Range	D-WDR
	Backlight Compensation	Support
	S/N	≥48db



Interface	RS232	1 Channel
	IO Alarm Input	2 Channel
	CAN	1 Channel
	USB	1 Channel - mini USB
	Speed	1 Channel
Protocol	Network Protocol	HTTP,TCP,ARP,UDP,FTP,DHCP,DNS,IPV4,NTP
Power Supply	Power	9-36V
	Internal Battery	Not support
	Typical Consumption	<8W
	Power Consumption	≤11.5W
General Compliance	Working Temperature	-40℃~+70℃
	Storage Temperature	-40℃~+85℃

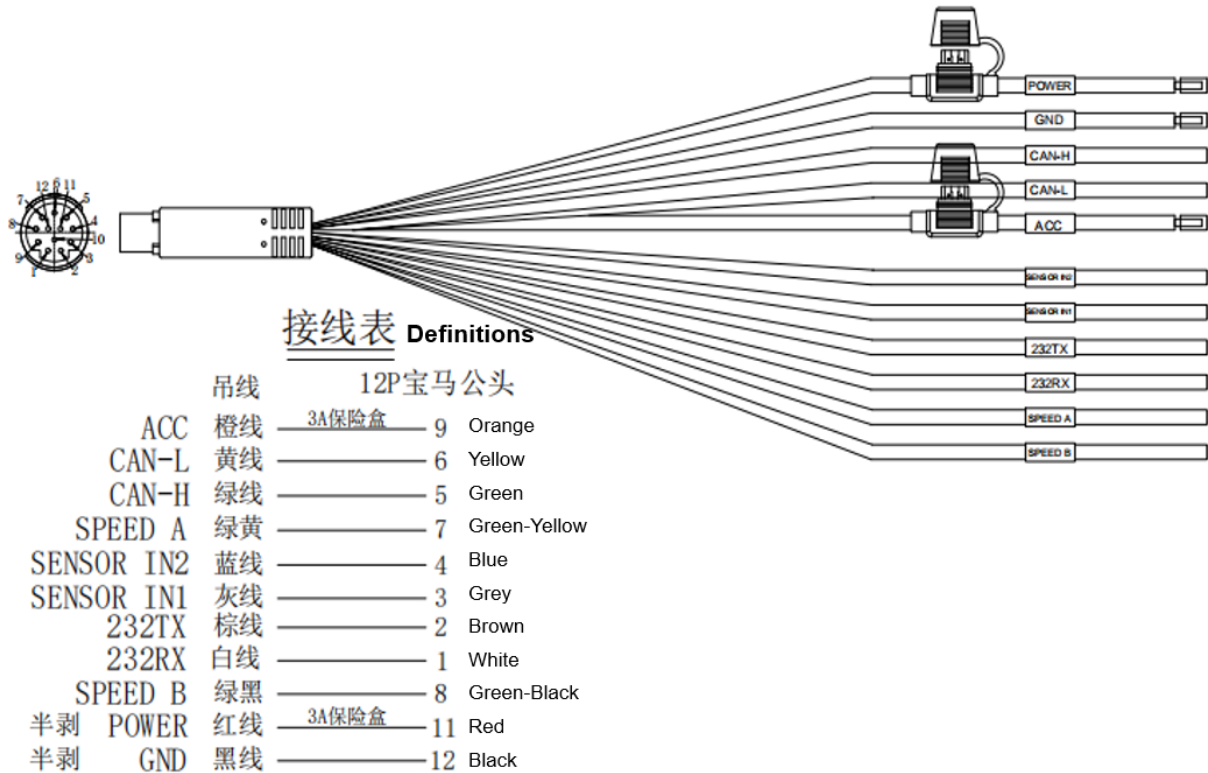


3. Dimension (mm)



4. Definitions of Cable

(1) Power output



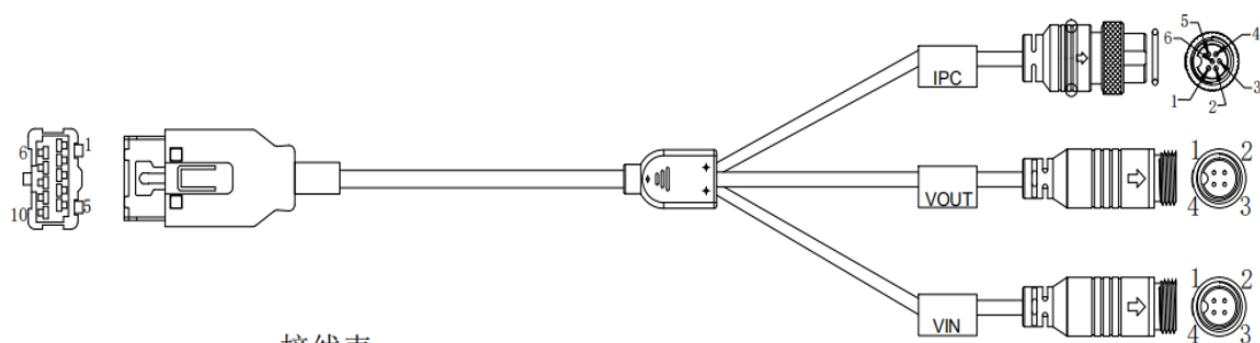
(2) OBD



接线表 Definitions

12P宝马公头	16P OBDII公插头
GND黑线 10+12	4+5 Black
CAN-H绿线 5	6 Green
CAN-L黄线 6	14 Yellow
POWER红线 11	16 Red

(3) Video Output

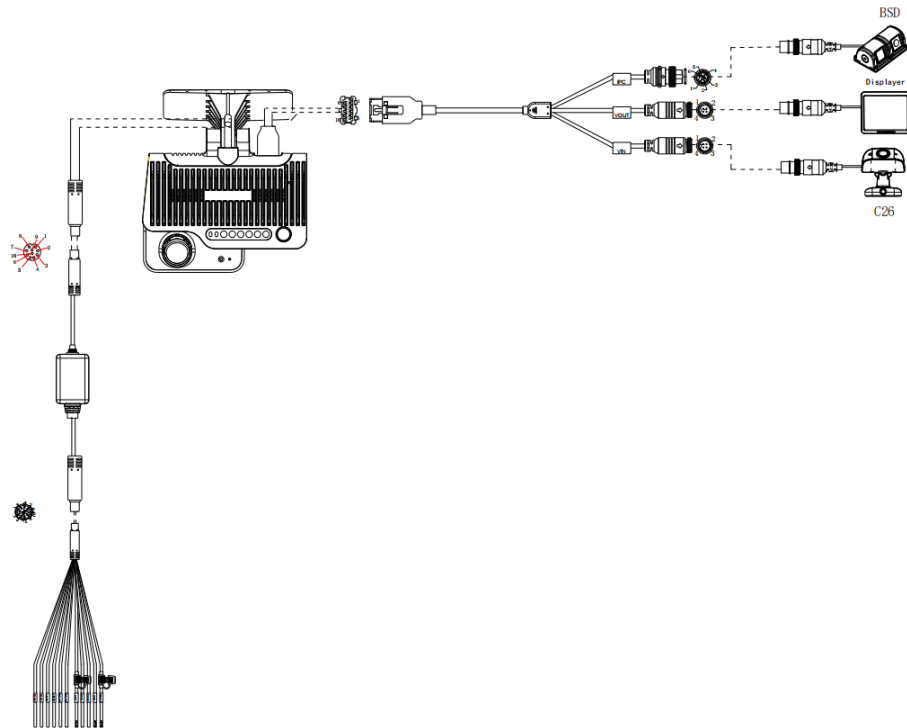


接线表 Definitions

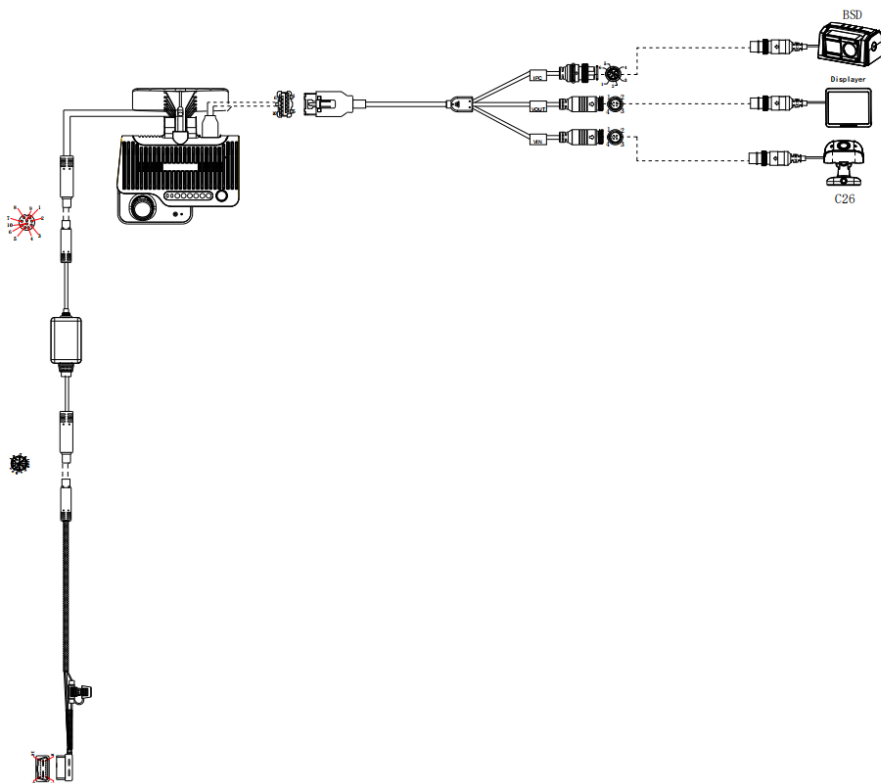
长城10P公头	RS765-6航空母头	
2	1 (TXN) 黑线	Black
7	2 (TXP) 白线	White
1	4 (RXN) 棕线	Brown
6	5 (RXP) 橙线	Orange
10	3 (VCC) 红线	Red
3	6 (GND) 灰线	Grey
外壳	外壳 (地线) *3	Shell(Ground)
长城10P公头	RS765-4航空公头VOUT	
4	4 (VOUT) 黄线	Yellow
5+9	2 (GND) 屏蔽	Shield
长城10P公头	RS765-4航空公头VIN	
8	4 (VOUT) 绿线	Green
3	2 (GND) 屏蔽	Shielded
10	1 (+12V) 紫线	Purple

5. System Diagrams

(1) ACC



(2) OBD





Warning:

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.

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.

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

Caution:

1. Max operation temperature: 40 degree C. Min operation temperature: -10 degree C.
2. This product can be used in UK. This device can be used in UK.
3. Products can be sold in UK Declaration of conformity Trimble Transportation declares that Micro system with Mobile Digital Video Recorder is in compliance with the essential requirements and other relevant provisions of Directive SI 2017/1206.
4. This product can be used in EU member states. This device can be used in European Union.
5. Products can be sold in all EU countries Declaration of conformity Trimble Transportation declares that Micro system with Mobile Digital Video Recorder is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
6. This equipment should be installed and operated with minimum distance of 20cm the radiator your body.

Applicant: VISIONTRACK LIMITED

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United Kingdom

UK Importer: VISIONTRACK LIMITED

Address: MARKERSTUDY HOUSE, 45 WESTERHAM ROAD, SEVENOAKS, KENT, TN13 2QB
United Kingdom

Frequency:

WCDMA2100: 1920MHz-1980MHz

WCDMA900: 880MHz-915MHz

LTE Band 1: 1920 MHz ~ 1980 MHz

LTE Band 3: 1710 MHz ~ 1785 MHz

LTE Band 7: 2500-2570MHz

LTE Band 8: 880MHz ~ 915 MHz

LTE Band 20: 832-862MHz

LTE Band 28: 703-733MHz

WIFI 2.4GHz: 2412 MHz ~ 2472 MHz

WIFI 5.8GHz: 5745 MHz ~ 5825MHz

Max power:

WIFI 2.4GHz: 14.98dBm

WIFI 5.8GHz: 11.84dBm

WCDMA900: 24.07dBm

WCDMA2100: 25.11dBm

LTE Band 1: 24.23dBm

LTE Band 3: 24.54dBm

LTE Band 7: 23.50dBm

LTE Band 8: 23.26dBm

LTE Band 20: 22.42dBm

LTE Band 28: 22.24dBm

