ZenduCAM LITE





Document Type	Confidentiality
Product Specifications	Direct to customers
Version	
V 1.0	* pages in total

Drafted By	
Approved By	

Revision History

Date	Version	Description	Author
2022/4/26	V1.0	First draft	Zhang Dao
2022/5/5	V1.1	Modify product specifications and dimensional drawings	Wang Xiaoyong



Product Overview

As a professional, user-friendly and cost effective dash camera with built-in AI processor, ZenduCAM LITE supports 2-channel 2K UHD video recording, dual Micro SD card storage, and dual-stream video recording. It can record road conditions and driver conditions in real time. In addition, it can upload video in real time to a monitoring platform that can be reviewed by fleet managers to help fleets guide drivers and reduce traffic risks.

Product Features

- 2MP resolution with 143° DFOV for road facing camera, 2MP resolution with 170° DFOV for cabin camera
- Support up to 2-channel video recording, H.264/H.265 video coding
- Dual Micro SD card storage, supporting dual-stream recording
- Built-in Wi-Fi and 4G module
- Support 4-channel I/O input, 1 channel CAN and 1 channel RS232
- Compact Design
- Support OBD powering, easy installation
- Support sleep mode (power consumption less than 0.1W)
- Support echo suppression algorithm to improve the quality of two-way voice intercom
- 6-axis gravity sensor detects intense driving behaviors (Harsh Acceleration, Deceleration, Sharp turn & Accident detection)

Specifications

Product Model: ZenduCAM LITE			
System	Embedded Linux		
Language	Support Chinese, English, Spanish, Portuguese, French, Russian, Japanese		
Video/Audio			
Video/Audio Recording	2 channels for video, 1 channel for audio input		
Total Resources	1080@25fps (Front Lens) + 1080P@25fps (Cabin Lens)		
Image Setup	Adjustable brightness, chroma, contrast, color saturation, and sharpness		
Video Coding	H.264 /H.265 (default: H.265)		
Audio Compression Standard	ADPCM/G.711/G.726 (default: ADPCM)		
CBR/VBR	Supported. VBR or CBR (optional), VBR by default		
Audio	Built-in MIC		
Loudspeaker	Built-in MIC Speaker		
Road facing Camera Parameters			
Sensor Type	1/2.8" 2-megapixel CMOS sensor		
Shutter Speed	1/30s-1/100000s		
Lens	2.6mm HFOV: 114° VFOV: 77° DFOV: 143°		
Minimum illumination	Color: 0.05Lux/F1.2		
Lens Mount	MDVR built-in lens		



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Wide Dynamic Range (WDR)	Digital WDR			
Backlight				
Compensation	Supported	Supported		
Signal-to-Noise Ratio (S/N)	≥48dB	≥48dB		
Cabin Camera Pa	arameters			
Sensor Type	1/2.9" 2-megapixel CMOS s	sensor		
Shutter Speed	1/30s-1/100000s	5011501		
Shutter Speed	2.2mm			
	HFOV: 151°			
Lens	VFOV: 84°			
	DFOV: 170°			
Lens Mount	MDVR built-in lens			
Wide Dynamic	VID VIC OUTLE III ICHS			
Range (WDR)	Digital WDR			
Backlight	Supported			
Compensation	Supported			
Signal-to-Noise	≥45db			
Ratio (S/N)				
LED Indicator St	tatus			
1. Power Status Indicator	O ff/Blue	4. Network Status Indicator	⊕Off/Red	
2. Alarm	×	5 Wie: Chatan In 1: and an	© 000 1/0	
Indicator	≌ Off/Red	5. WiFi Status Indicator	ি Off/Red/Green	
3. GPS Signal	MOff/Red	6. Recording Status	Off/Red	
Indicator	V&Off/Red	Indicator	□ Oli/Red	
Storage				
Micro SD card	Support two Micro SD cards	s, with the maximum capacity	of a single card is 256 GB	
Sensor				
Six-axis Sensor	Supported, Harsh Accelerat	ion, Deceleration, Sharp turn	& Accident detection	
Engine Data Pag	11			
CAN Data	Supported			
Collection	Supported			
Port				
RS232	1	1		
IO Port	4-channel input			
CAN	1			
USB	1 × mini USB port			
Network				
	Support 2.4G (IEEE Std.802.11a/IEEE Std.802.11b/ IEEE Std.802.11g			
WIFI	/IEEE Std.802.11n)			
	Supported For North America: EC25AFXGA-128-SGAS			
4G LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5				
	For Europe and Asia: EC25-EC			
LTE FDD: B1/B3/B7/B8/B20/B28A				

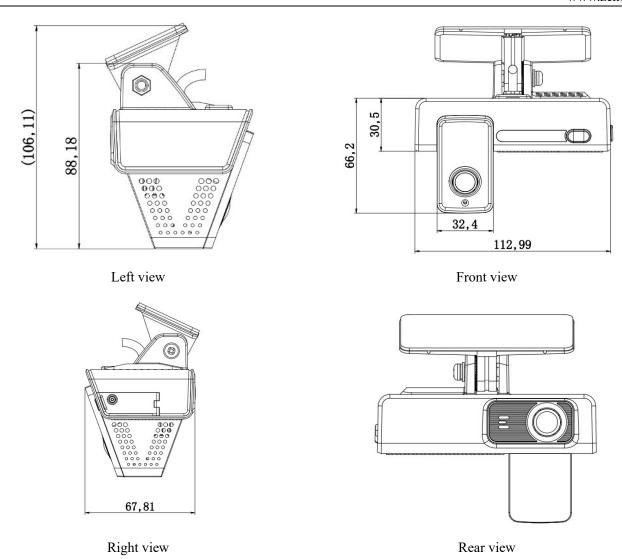


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	WCDMA: B1/B8	
	GSM: B3/B8	
	For Latin America: EC25AUXGA-128-SGNS	
	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28	
	LTE TDD: B40	
	WCDMA: B1/B2/B5/B8	
	GSM: B2/B3/B5/B8	
Positioning		
GPS	Supported	
	GPS L1 1575.42MHz	
	BDS B1 1561.098MH	
	GALILEO E1B/C1	
	GLONASS L1OF 1602MHz	
	SBAS: WAAS, EGNOS, MSAS, GAGAN	
Protocol		
Network	HTTP,TCP,ARP,UDP,FTP,DHCP,DNS,IPV4,NTP	
Protocol	111 11,1C1,AR1,0D1,111,D11C1,DN3,11 V4,1V11	
Power Related		
Power Supply	9-36V	
Built-in Battery	Not supported	
Power	Typical power consumption < 7 W, maximum power consumption ≤ 9 W	
Consumption		
General Specifica	ations	
Dimensions	113.0 mm (length) × 67.8 mm (width) × 88.2mm (height, without bracket)
MDVR · 306 σ		
Weight	MDVR + bracket + screw + power supply box + power tail cable: 590 g	
Operating	-40°C - +70°C (-40°F - +158°F)	
Temperature		
Storage	-40°C - +85°C (-40°F - +185°F)	
Temperature		
Humidity	15% - 90%	

Certification Information

Certification	Time
Emark	
CE-EMC	
FCC-ID	
PTCRB	
ROHS	
REACH	
EN50155	
AT&T	
Verizon	
CE-RED	
UKCA	

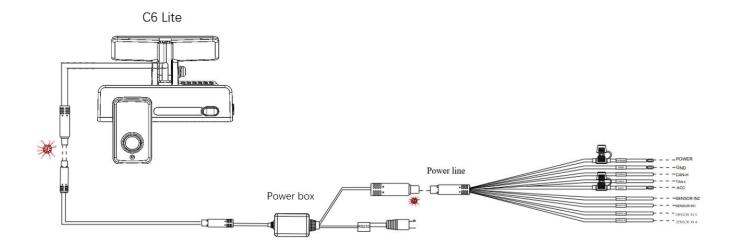
Dimensions (mm)



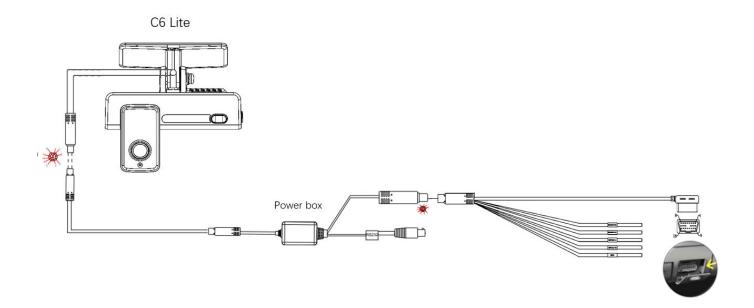
System Connection Diagram

(1) System connection diagram for power supply through loose wire





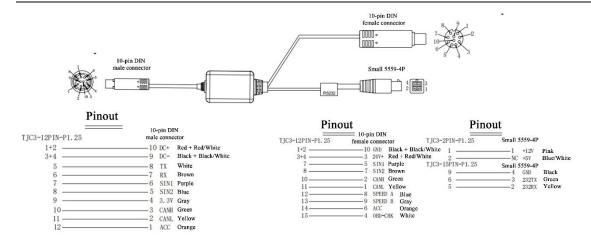
(2) OBD wiring diagram



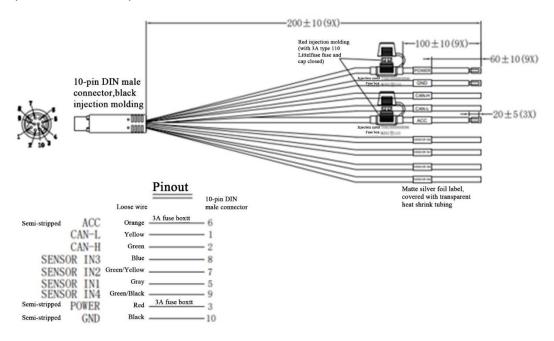
Cable Connector Pinouts

(1) Power supply box connector pinout





(2) Power output cable connector pinout



(3) OBD cable connector pinout



