

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

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 Cam	era 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	

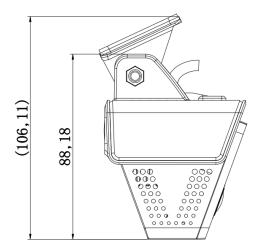
		www.zelidult.	
Digital WDR			
Supported			
≥48dB			
romatara			
	ongor		
0 1	611501		
HFOV: 151° VFOV: 84°			
MDVR built-in lens			
Digital WDR			
Supported			
≥45db			
atus		-	
Off/Blue	4. Network Status Indicator	∰Off/Red	
Off/Red	5. WiFi Status Indicator	হি Off/Red/Green	
<sup>%</sup> Off/Red	6. Recording Status Indicator	□ Off/Red	
Support two Micro SD cards	, with the maximum capacity	of a single card is 256 GB	
Supported, Harsh Accelerati	ion, Deceleration, Sharp turn	& Accident detection	
Supported			
Port RS232 1			
Network			
Support 2.4G (IEEE Std.802.11a/IEEE Std.802.11b/ IEEE Std.802.11g /IEEE Std.802.11n)			
Supported For North America: EC25AFXGA-128-SGAS 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			
	Supported Supported $\geq 48dB$ rameters 1/2.9" 2-megapixel CMOS s $1/30s-1/100000s2.2mmHFOV: 151°VFOV: 84°DFOV: 170°MDVR built-in lensDigital WDRSupported\geq 45dbatus\bigcirc Off/Blue\bigcirc Off/Blue\bigcirc Off/Red\boxed Off/Red\boxed Off/Red\boxed Off/Red\boxed Support two Micro SD cardssSupported, Harsh AccelerationsSupported, Harsh Accelerations\boxed Supported\boxed Supported\boxed Supported\boxed Supported, Harsh Accelerations\boxed Supported\boxed Supported, Harsh Accelerations\boxed Supported, Harsh Accelerations\boxed Supported\boxed Supported, Harsh Accelerations\boxed Supported\boxed Supported$	Supported ≥48dB rameters 1/2.9" 2-megapixel CMOS sensor 1/30s-1/100000s 2.2mm HFOV: 151° VFOV: 84° DFOV: 151° VFOV: 84° DFOV: 170° MDVR built-in lens Digital WDR Supported ≥45db atus ©Off/Blue ≥45db atus ©Off/Red 5. WiFi Status Indicator ©Off/Red 5. WiFi Status Indicator ©Off/Red 5. WiFi Status Indicator ©Off/Red 5. WiFi Status Indicator Support two Micro SD cards, with the maximum capacity Supported, Harsh Acceleration, Deceleration, Sharp turn Supported 1 4-channel input 1 1 × mini USB port Support 2.4G (IEEE Std.802.11a/IEEE Std.802.11b/ IEEE Support 4. Harsh Acceleration, Sharp turn Supported Supported Support 5. WiFi Status Indicator Supported Supported Supported Supported Supported Support 5. WiFi Status Indicator Supported Supported Supported Supported Support 5. WiFi Status Indicator Supported Supported Supported Support 5. WiFi Status Indicator Supported Supported Supported Supported Supported Support 5. WiFi Status Indicator Supported Supported Supported Supported Support 5. WiFi Status Indicator Supported Supported Supported Support 5. WiFi Status Indicator Supported	

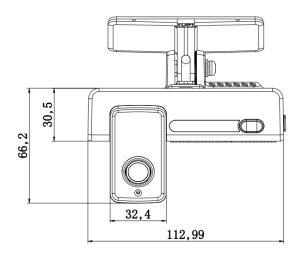
	WCDMA: B1/B8		
	GSM: B3/B8		
	For Latin America: EC25AUXGA-128-SGNS		
	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28		
	LTE TDD: B40		
	WCDMA: B1/B2/B5/B8		
	GSM: B2/B3/B5/B8		
Positioning			
GPS	Supported		
	GPS L1 1575.42MHz		
	BDS B1 1561.098MH		
	GALILEO E1B/C1		
	GLONASS L1OF 1602MHz		
	SBAS: WAAS, EGNOS, MSAS, GAGAN		
Protocol			
Network			
Protocol	HTTP,TCP,ARP,UDP,FTP,DHCP,DNS,IPV4,NTP		
Power Related			
Power Supply	9-36V		
Built-in Battery	Not supported		
Power	$T_{\rm ent}$ is 1 means the $< 7  {\rm W}$		
Consumption	Typical power consumption $< 7$ W, maximum power consumption $\le 9$ W		
General Specifica	ations		
Dimensions	113.0 mm (length) $\times$ 67.8 mm (width) $\times$ 88.2mm (height, without bracket)		
Waight	MDVR: 306 g		
Weight	MDVR + bracket + screw + power supply box + power tail cable: 590 g		
Operating			
Temperature	-40°C - +70°C (-40°F - +158°F)		
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	

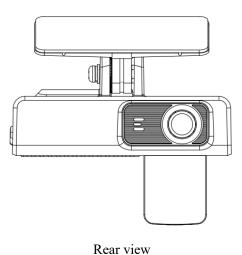
# **Dimensions (mm)**





Front view

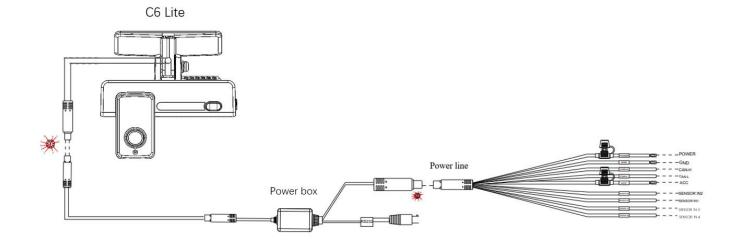




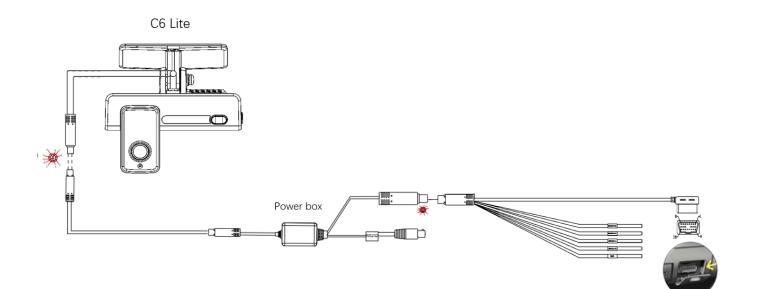
Right view

# System Connection Diagram

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

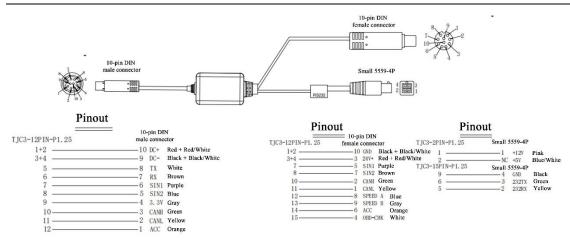


#### (2) OBD wiring diagram

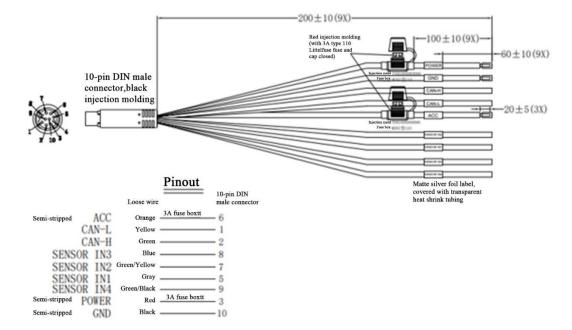


### **Cable Connector Pinouts**

(1) Power supply box connector pinout



#### (2) Power output cable connector pinout



(3) OBD cable connector pinout

