

AEX-ST-DMC-MIDI

Midi Dashcam Specification









Overview

As a professional, user-friendly and cost effective dash camera with built-in AI processor, Midi Dashcam detects risky driving events such as lane departure warning, forward collision warning and headway monitoring warning, as well as unsafe driving behaviors such as unfastened seatbelt, using mobile phones, yawning, distraction and smoking. In addition, it can remind drivers of unsafe driving behaviors in real time and upload driving events to a monitoring platform that can be reviewed by fleet managers to help fleets guide drivers and reduce traffic risks.

Highlight

- 1080P resolution with 96° DFOV for ADAS, 1080P resolution with 170° DFOV for DSC
- Support up to 3-channel video recording, H.264/H.265 video coding
- Dual Micro 256G SD card storage, supporting dual-stream recording
- Built-in Wi-Fi and 4G module
- Support 4-channel input, 1 channel CAN and 1 channel RS232
- Compact Design
- Support OBD powering, easy installation
- Built-in ADAS and DSC, supporting AI event detection (up to 2-channel)
- Support sleep mode, remote wake-up(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)

Active Safety Features

The Midi Dashcam uses machine vision-based on Video Analysis technology to automatically identify road risks and drivers' unsafe driving behaviors. Detected events will trigger audible and visual reminders to alert drivers in real time, event recordings will be uploaded to the cloud simultaneously.

ADAS Features



LDW(Lane Departure Warning)



HMW(Headway Monitoring Warning)



FCW(Forward Collision Warning)

DSC Features



Unfastened seat belt



Using mobile phone



Yawning









Smoking

Optional accessories for active safety **DMS Features**





A-pillar DMS

Driver Notifier (R-Watch)









Lens Covered

Fatigue

Phone Call

Smoking









Distraction

No driver detected

Unfastened seat belt

Yawning



Specifications

	Product Model: Midi				
System	Embedded Linux				
Language	Support Chinese, English, Spanish, Portuguese, French, Russian, Japanese				
Video/Audio					
Video/Audio	3-channel video (default: 2 channels; extensible: 1-channel IPC) + 1-channel audio				
Recording Maximum	, , , , , , , , , , , , , , , , , , ,				
Resources	2MP@20fps(ADAS)+1080P@20fps(DSC)+1080P@20fps(IPC)				
Image Setup	Adjustable brightness, chroma, contrast, color saturation, and sharpness				
Video Coding	H.264 /H.265 (default: H.265)				
Audio	11.20 1 / 11.200 (doitait. 11.200)				
Compression	ADPCM/G.711/G.726 (default: ADPCM)				
Standard					
CBR/VBR	Supported. VBR or CBR (optional), VBR by default				
Audio	Built-in MIC				
Loudspeaker	Built-in 3W loudspeaker				
ADAS Camera Parameters					
Sensor Type	1/2.8" 2-megapixel CMOS sensor				
Shutter Speed	1/30s-1/100000s				
	4mm				
Lens	HFOV: 84°				
Lons	VFOV: 45°				
Minimum	DFOV: 96°				
illumination	Color: 0.05Lux/F1.2				
Lens Mount	MDVR built-in lens				
Wide Dynamic					
Range (WDR)	Digital WDR				
Backlight	C				
Compensation	Supported				
Signal-to-Noise	≥48dB				
Ratio (S/N)					
	Cabin Camera Parameters				
Sensor Type	1/2.9" 2-megapixel CMOS sensor				
Shutter Speed	1/30s-1/100000s				
Lens	2.2mm				
	HFOV: 151° VFOV: 84°				
	DFOV: 170°				
Lens Mount	MDVR built-in lens				
Wide Dynamic					
Range (WDR)	Digital WDR				
Backlight					
Compensation	Supported				
Signal-to-Noise	≥45db				
Ratio (S/N)	/ 10 GO				



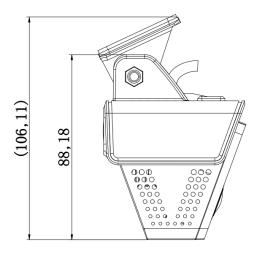
1 T T T 1					
LED Indicator Status					
1. Power Status Indicator	O ff/Blue	4. Network Status Indicator	⊕Off/Red		
2. Alarm Indicator	≌Off/Red	5. WiFi Status Indicator	Soff/Red/Green		
3. GPS Signal Indicator	%Off/Red	6. Recording Status Indicator	□Off/Red		
Storage		malcator			
Micro SD card Support two Micro SD cards, with the maximum capacity of a single card is 256 GB					
Sensor					
Six-axis Sensor Supported					
Engine Data Page					
CAN Data Collection	Supported				
Port					
RS232	1				
IO Port	4-channel input				
CAN	1				
USB	1 × mini USB port				
Network	•				
WIFI	Support 2.4G (IEEE Std.802.11a/IEEE Std.802.11b/ IEEE Std.802.11g /IEEE Std.802.11n)				
4G	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 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,D	HCP,DNS,IPV4,NTP			
Power Related					
Power Supply	9-36V				
Built-in Battery	Not supported				
Power	Typical power consumption	<8 W, maximum power consu	imption <12 W		



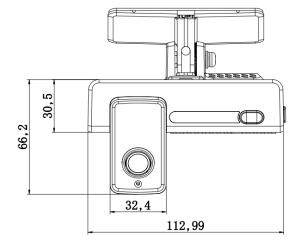


Consumption			
General Specifications			
Dimensions	113.0 mm (length) × 67.8 mm (width) × 88.2mm (height, without bracket)		
Weight	760g		
Operating Temperature	-40°C - +70°C (-40°F - +158°F)		
Storage Temperature	-40°C - +85°C (-40°F - +185°F)		
Humidity	15% - 90%		

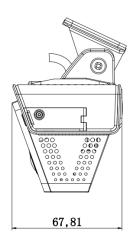
Dimensions (mm)



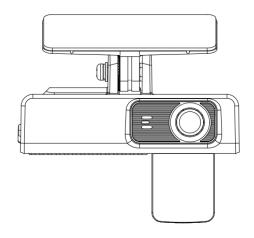
Left view



Front view



Right view



Rear view

System Connection Diagram

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

None

(2) OBD wiring diagram

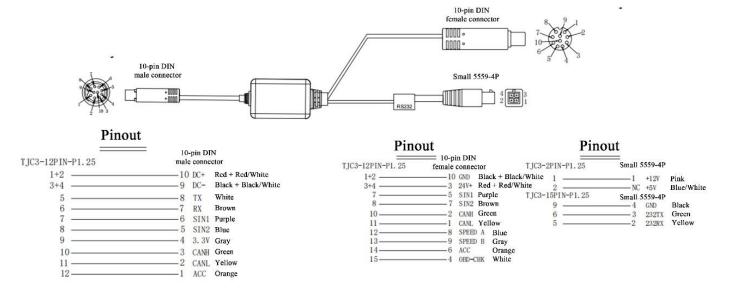


Definition of Cable Connector Pinouts

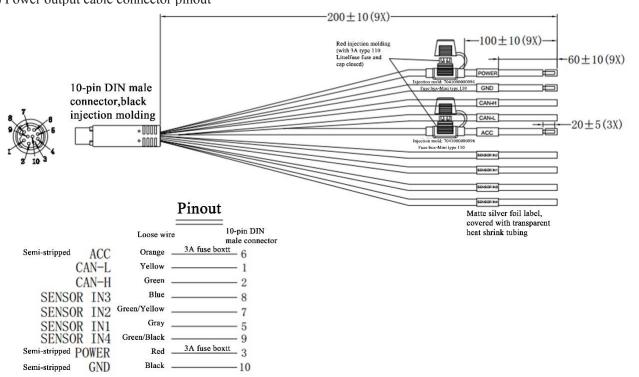
(1) Video output cable connector pinout

None

(2) Power supply box connector pinout



(3) Power output cable connector pinout



(4) OBD cable connector pinout

