



MERIVA[®]
TECHNOLOGY

Streamax

MA VM-360

Product Specification



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1. Product overview

MAVM is a 360° panoramic intelligent driver assistance system, combined with the latest image processing technology and real-time splicing technology, can provide a real-time around view of vehicle body, providing users with a safer driving experience. The product captures the real-time image around the vehicle through the four high-definition cameras, seamlessly corrects the distortion of the image and stitching the picture, forming a complete overview of the surrounding environment of the vehicle, and combined with the latest 3D image engine, to reduce the blind area of the user's perspective. At the same time, the intelligent identification algorithm in term of blind spot detection pedestrian is matched to identify the pedestrians far and near around the vehicle in real time. Warning the driver when pedestrians are detected in the dangerous area, so as to identify the risk for users in advance, reduce and avoid traffic accidents, and improve driving safety as a result.

2. Product function features

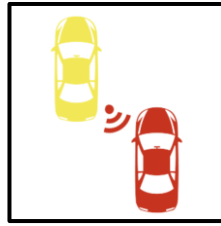
- 4 ultra-wide angle lens, maximum support 1080P HD video
- Support the maximum 256GB capacity TF card storage, support dual card slot installation
- Supports 2D / 3D AVM panoramic splicing
- Support one-key automatic calibration, and the calibration time is less than 1min
- Support transparent body, transparent car bottom view
- Support electronic rearview mirror and other multi-auxiliary view switching function, support vehicle signal linkage to switch view
- Support BSD four-direction pedestrian detection and warning, the alarm detection range can be calibrated
- Alarm strategy can be defined into four alarm levels according to the speed and vehicle steering signal, more driver friendly for the actual scene to avoid unnecessary sound and light alarm
- Support the BSD rear incoming vehicle detection and early warning function

- Support the lane departure warning function(LDW)
- Support 4*IO input 2*IO output, 1*CAN, 3*RS232 and 1*485
- Support speed detection via pulses, GPS and CAN as speed source
- Support standalone running, and running with host MDVR
- Built-in WiFi module, which supports manual operation via external display screen and mobile app

2.1 AI function



BSD pedestrian detection



Rear vehicle approaching detection



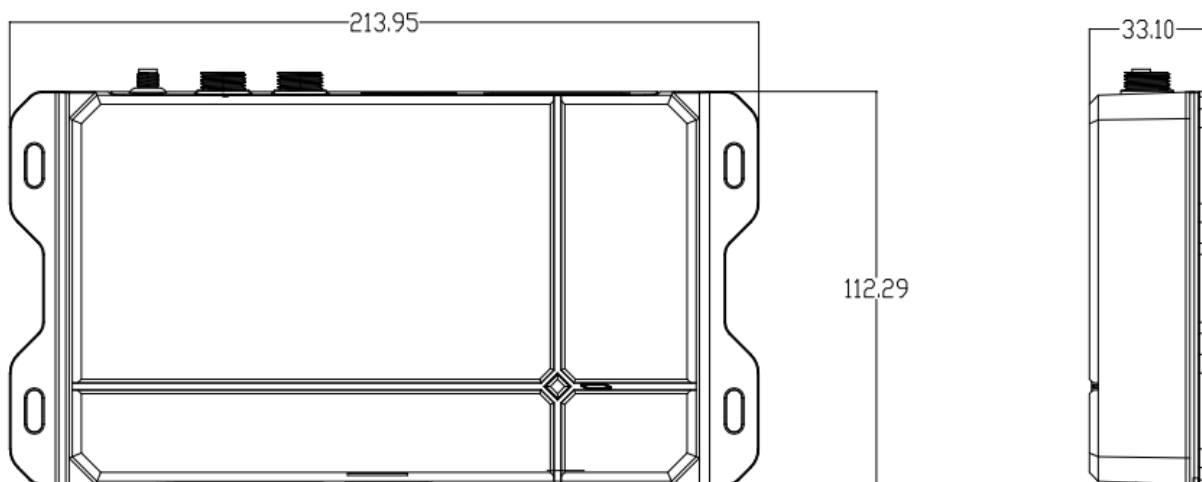
LDW lane departure

3. Product Parameter

Product model	
AVM	
built-in AI	
Built-in AI	Support AVM algorithm, lane departure algorithm, rear vehicle approaching detection algorithm
Sensor	
G-Sensor	Built-in 6-axis
RTC	
RTC	24H error is less than $\pm 2s$
Power Supply	
DC input voltage	DC 9-36V
Input current	$\leq 3A$
Static current consumption	$\leq 2mA$
Environmental Adaptability	
Working temperature	$-30^{\circ}C \sim +70^{\circ}C$
Storage temperature	$-40^{\circ}C \sim +85^{\circ}C$
Working humidity	15%-95%RH
Physical characteristics	
Size (length x width x height)	214x 112x 33mm(L*W*H)
Video	
Import	4 Road AHD
Output	CVBS/AHD
Video coding	H.264/H.265
Video resolution	4*1080P 15fps
Audio	
output	1 Road
Memory	

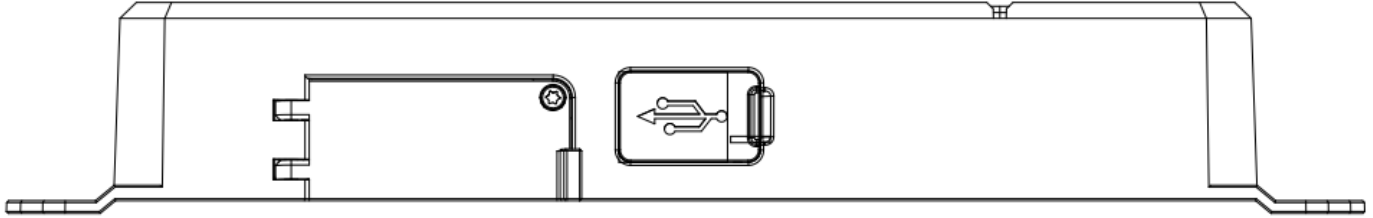
Micro SD Card	2 ways, single card support 256GB.
Connectivity	
WIFI	Support for 2.4G
LAN	Support (6 PIN circular connector)
IR	
Infrared IR	support
Positioning	
GPS	Support for G-MOUSE
Interface	
USB 2.0	1
CAN	1
Speed pulse	1
RS232	3
RS485	1
IO_INPUT	4
IO_OUTPUT	2

4. Dimensional Drawing (mm)

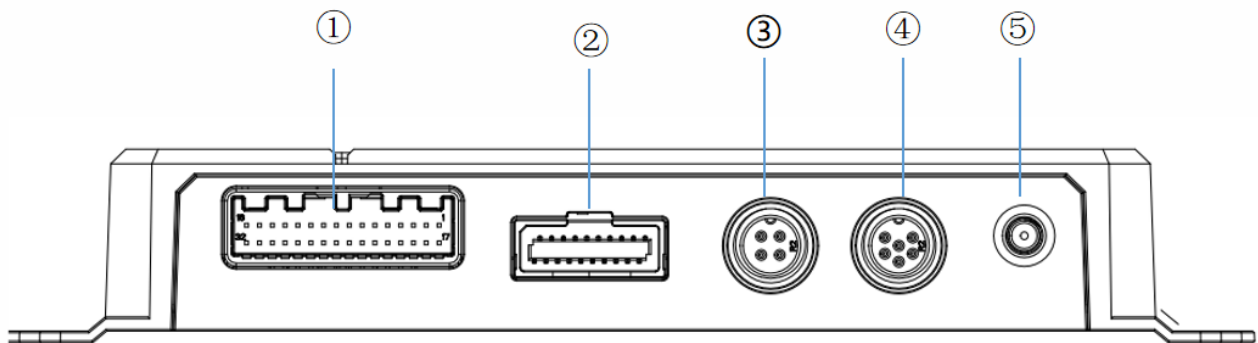



5. Panel Introduction

Front panel:



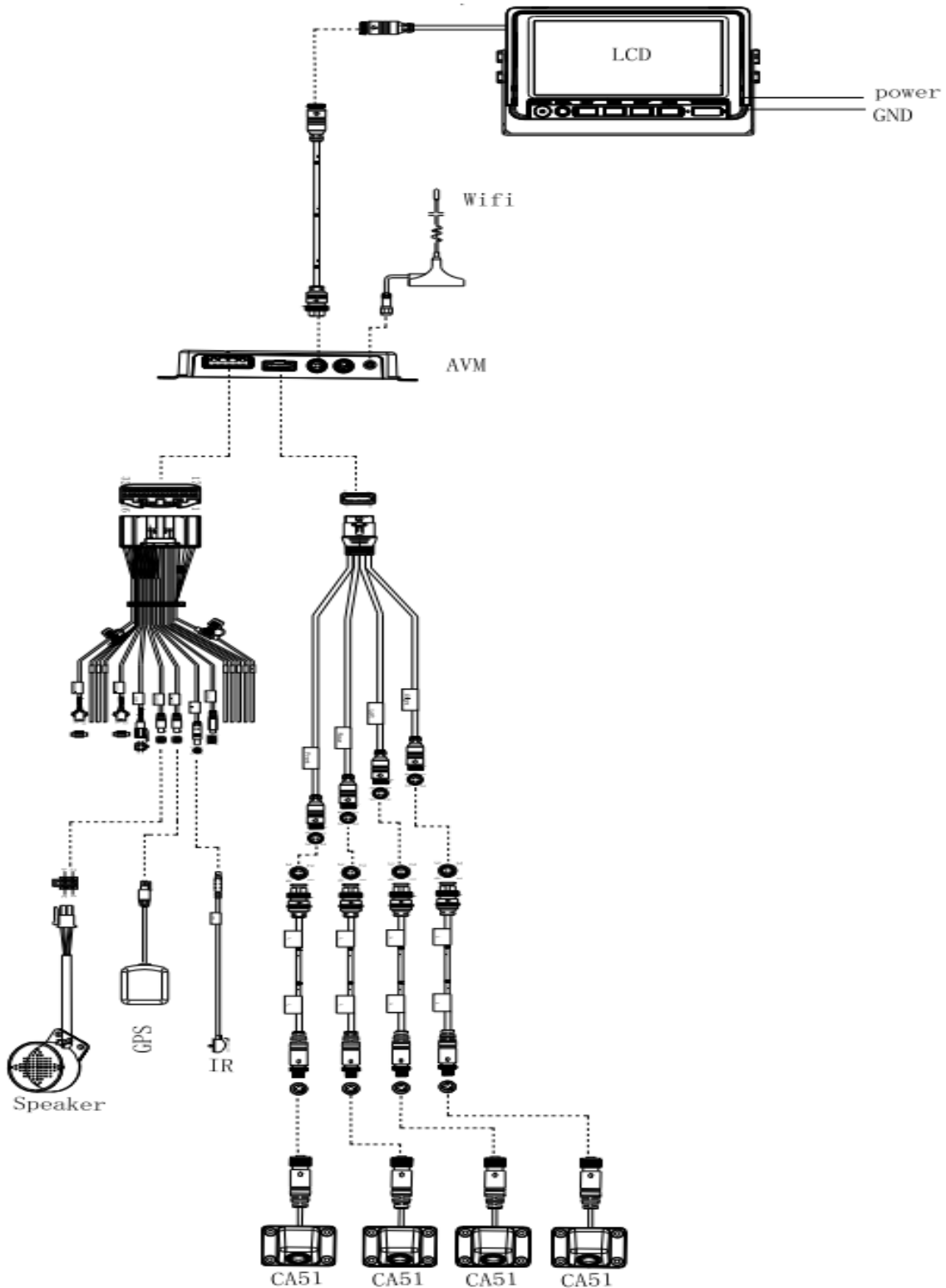
Rear panel:



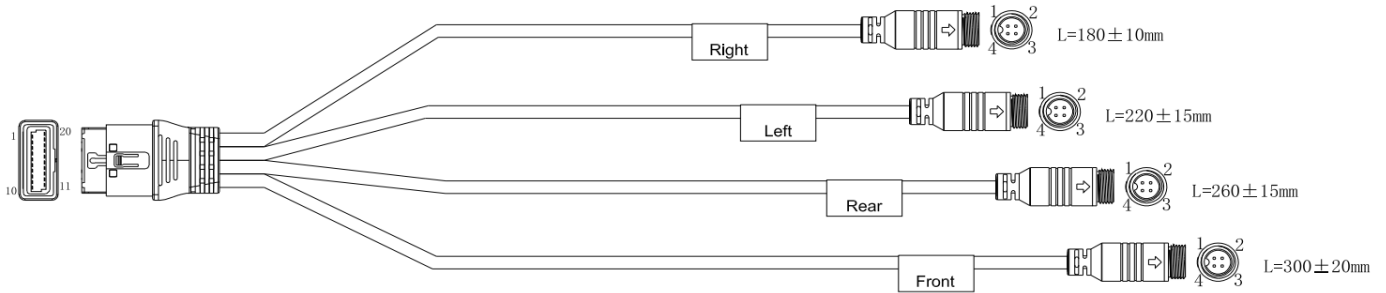
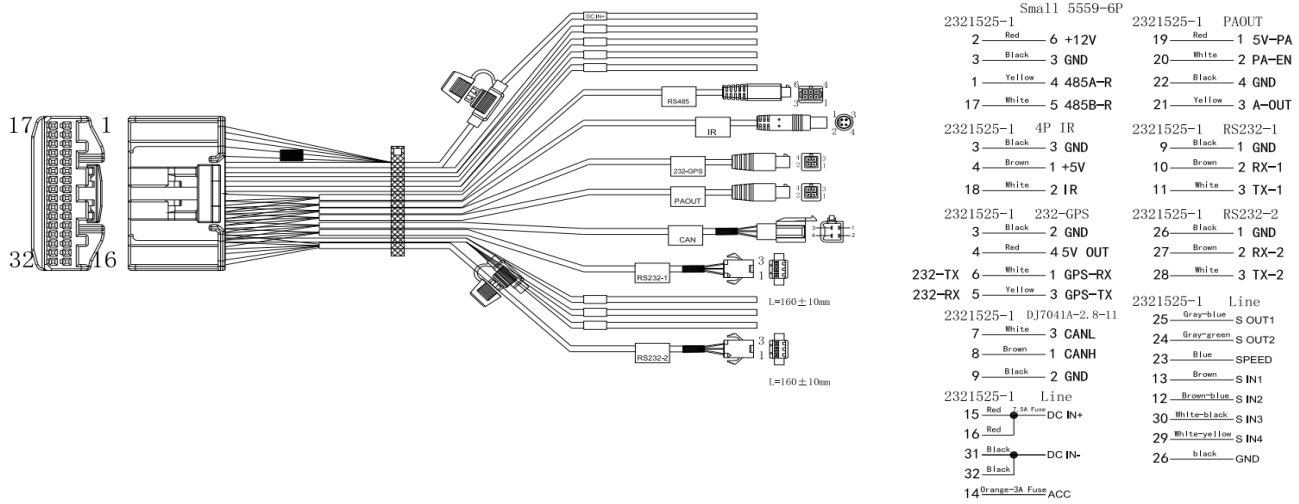
NO.	Label	Defination
1	Power/RS232/IO	Mainly is the power supply, IO, RS232
2	VIN1-4	Video input to channel 1-4
3	AVOUT	Audio and video output
4	LAN	For docking to the MDVR network ports
5		The WIFI antenna interface

6. Product Installation

6.1 System Wiring Diagram



6.2 External Cable Pinout



20P	RS765-4	Male connector (Right)
17	4	VIN4 Natural color
Casing	●	Casing GND Outer shield
18	1	+12V Red
19	3	AIN4 White
20+16	2	GND Black
20P	RS765-4	Male connector (Left)
5	4	VIN3 Natural color
Casing	●	Casing GND Outer shield
3	1	+12V Red
2	3	AIN3 White
1+4	2	GND Black

20P	RS765-4	Male connector (Rear)
7	4	VIN2 Natural color
外壳	●	外壳 GND Outer shield
8	1	+12V Red
9	3	AIN2 White
10+6	2	GND Black
20P	RS765-4	Male connector (Front)
15	4	VIN1 Natural color
外壳	●	外壳 GND Outer shield
13	1	+12V Red
12	3	AIN1 White
11+14	2	GND Black