

Anti Collision Warning System

AWS302 Specification

(V2.2)



1 Product Introduction

Anti Collision Warning System AWS302, based on leading computer vision technology, utilizes cameras to perceive the road environment, including vehicles, lanes, pedestrians, traffic signs, etc., and can reduce collision accidents with early warnings when it detects potential collision dangers during driving.

AWS302's main functions include Forward Collision Warning (FCW), Lane Departure Warning (LDW), Headway Monitoring and Warning (HMW), Pedestrian Collision Warning (PCW), Forward Vehicle Start Reminder, Forward Vehicle Rolling Reminder, Over-speed Warning, Driving Record, etc.

It is suitable for all types of vehicles, such as Car, Taxi, Truck, Bus, logistics fleets, etc.



2 Product Description

2.1 Product Components

AWS302 consists of ADAS camera, warning display (optional), power cable, TF card (optional), 3M tape, etc.



ADAS Camera



Warning Display

| Item | Interface | Remark |
|--------------------|-----------------------|---|
| ADAS Camera | TF Card Slot | Install TF card. |
| | SIM Card Slot | Install SIM card. |
| | Lens Fixing Button | Rotate to fix lens. |
| | Lens Adjusting Button | Rotate the adjusting Len to improve the accuracy of early warnings. |
| | Status Indicator | The green light is always on, indicating normal operation. |
| | USB Interface | Debugging port. |
| Display | Warning Display | Display warning information. |

2.2 Product Specification

2.2.1 ADAS Camera

| Function | Function Subdirectory | Specifications |
|-----------------------------------|---------------------------|---|
| Power Supply | Power Input | DC 12V/24V |
| | Average Power Consumption | <15W (power consumption varies with the configuration of the whole device) |
| Environmental Adaptability | Operating Temperature | -20°C~+70°C |
| | Storage Temperature | -40°C~+85°C |
| Video and Audio | Video Input | Supports 1 channel AHD input (inbuilt 1-ch 720P, horizontal angle 53°) |
| | Video Output | Supports 1 channel video output 720P (optional) |
| | Audio Output | 1 channel built-in speaker |
| | Resolution | 1280 x 720 |
| | OSD | With character overlay function: time, date, vehicle ID and other information image will overlay. |
| Satellite Positioning | Positioning | GPS |
| Wireless Communication | 4G | 1 channel (optional) |
| | Wi-Fi | 1 channel (can be used as wireless AP, only for installation and debugging, etc.) |
| Storage | TF | 1 channel, maximum support 256GB. |
| External Interface | USB | 1 channel, for debugging |
| | RS232 | 1 channel (optional) |
| | I/O | 1 or 4 channels I/O output (optional) |
| Alarm Settings | Alarm Volume | Configurable from 0~100 |
| | Alarm Switch | Alarm can be switch ON or OFF by the APP. |

2. 2. 2 Display (optional)

| Category | Describe |
|-------------|----------------------|
| Dimension | 75.5mm * 22mm * 68mm |
| Interface | RS232 |
| Rated Power | 5V/0.1A |
| Voltage | 5V+/-10% |