DR03 Specification

DR03 – 3 CH AI | Versatile Modular Dashcam System
The Ultimate in Flexibility and Scalability

This Product supports：

1. 3-Channel Videos

2. ADAS & DMS(build-in)

3. 4G CAT.4

4. GNSS:GPS/GALILEO/BeiDou/GLONASS

5. LoRa(optional)

6. Configurator and FOTA WEB

Technical

OS	•	Linux
AI Computing Power	•	1.0TOPS NPU
Intelligent Algorithms	•	ADAS\DMS

Video

Multi-Channel Recording	•	3 Channels @ 1080p
	•	H.264 encoding
ADAS camera (forward view)	•	1080P
	•	2MP
	•	FOV 64°D 47°H 29°V
	•	FL 6.0mm
	•	FNO 2.0
DMS Camera (cabin view)	•	1080P
	•	2MP
	•	FOV 138°D 110°H 59°V
	•	FL 3.0mm
	•	FNO 1.8

GNSS&Cellular

Cellular	•	4G CAT.4
LTE Bands	•	LTE:B1/2/3/4/66/5/7/8/20/28(28A/28B)/38/40/41
Positioning System	•	GPS / Galileo/ BeiDou / GLONASS
LoRa	•	Support LoRa(optional)

Electrical Specification&Sensors

Power & Consumption(Host only, No External Cameras)	•	Input 9-36V DC
	•	Standby：4.7mA@12V
	•	Full-load：390.3mA@12V
Built-in Battery	•	400mAh 3.2V LiFePO4
Environmental Tolerance	•	Operating temperature: -20℃ to 80℃
	•	Storage temperature: -40℃ to 100℃.
Acceleration Sensor	•	3-axis G-sensor
Audio	•	Built-in microphone and 4Ω / 1.5W speaker.

Physical & Interface Specifications

I/O	•	Input: VIN\ACC\SOS\ ADC\Left turn(Custom H)\Right turn \GND
	•	Output: Cut off oil circuit
Device Interfaces	•	SIM card slot (nano SIM)
	•	Power connector
	•	Type-C debug port
	•	Type-C DMS camera port
	•	2.5mm camera(AHD) port
	•	TF slot *1(32GB~512GB) Above CLASS10
Dimensions	•	L 139.8* W 51.2* H 80.5mm
Weight	•	208g
LED	•	Red/Green
Button*2	•	VOL/SOS

AI

ADAS	• Forward Collision Warning (FCW)
	• Pedestrian Collision Warning (PCW)
	• Lane Departure Warning (LDW)
	• Following Distance Alert
	• Speeding Alert
	• Harsh Braking Alert
	• Harsh Acceleration Alert
	• Harsh Turning Alert
	• Collision Warning
DMS	• Distracted Driving Alert
	• Drowsiness Alerts (Close eye &Yawn)
	• Cell Phone Use Alert
	• Seat belt Alert
	• Camera Obstruction Alert
	• Smoking Alert
	• Driver Detection Alert

Regulatory Compliance

Certification	• FCC
Product Name	• AI Dashcam
Product Code	• DR03

80.5

95.8

139.8

46.0

51.2

80.5

139.8

A

B

Turn_Right
Purple

Fuel1-
Yellow

SOS
White

ACC
Orange

Turn_Left
Grey

V+
Red

GND
Black

ADC_1
Brown

A

Black
A1 GND

Black
B12 GND

A12 GND
Black

B1 GND
Black

B