DSM Camera Manual

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Product Specification

Technical data	Description
Supported by	FMB640, FMC640
DSM functions	Drowsiness, Distraction, Yawning, Phone use, Smoking, Driver ID, Seatbelt
Ethernet	GMAC/EMAC, RGMII PHY Interface
GNSS	GPS, GLONASS, QZSS, -165dBm tracking sensitivity, Built-in Cradle
G-Sensor	Digital tri-axial acceleration sensor
Storage	Up to 128GB micro SD card, Supported format-free
Indicator (LED)	Red/Green dual LED, Operating status
Microphone	MEMS microphone, -42dB, SNR: 59dBA
Speaker	Nom.1W / Max.1.5W, 8Ω, 90dB SPL
Dimensions	Camera: 48.7mm x 56.18mm x 78.52mm / Main: 172mm x 84.65mm x 27mm
Weight	Camera(w. cable): 235g, Main: 125g
Materials	PC, PMMA
Features	Supported FMS, CAN, Video output (CVBS), Ethernet, GPIO (Vibrator)
What's in the package?	DSM, Main cable, Power cable (B+, ACC, GND), Wrench, Manual
Installation	Camera: A-piller mount, Main: In dash board
Reliability testing	Electronic / Environmental test (ISO Standard)
Certifications	FCC, E-mark, UKCA, KC

Electrical parameters	Description
Input voltage range	12 ~ 24 V
Working temperature and humidity	-20°C to 70°C (-4°F to 158°F) Humidity: <90%
Power consumption	Max 8.4W (350-700 mAh)

Function parameters	Description
Real time clock (RTC) synchronization	Available over FM (via NTP, NITZ or GNSS)
Picture resolution	784x441 event/784x441 request (50KB transfer period 18 sec),
IR type, distance	2x IR LED, 850nm, IR Pass Filter
Cable length	RS232 (3.5 m)
Application Processor	ARM Quad Cortex-A7@1GHz
Memory	512MB NAND Flash, 1GB DDR3
ISP & Sensor	1/2.8 inch CMOS Image Sensor, 1080p@30fps, HDR
Lens	F/NO=2.1, FOV=88.2°

DSM data transfer timing

* **NOTE:** This approximate time which we receive during testing in real cases can be different.

Image resolution	Size of image FMC640	Time interval (s) from trigger to files received on server FMC640	Photo examples
	Image		
784x441	17,4KB	6s	