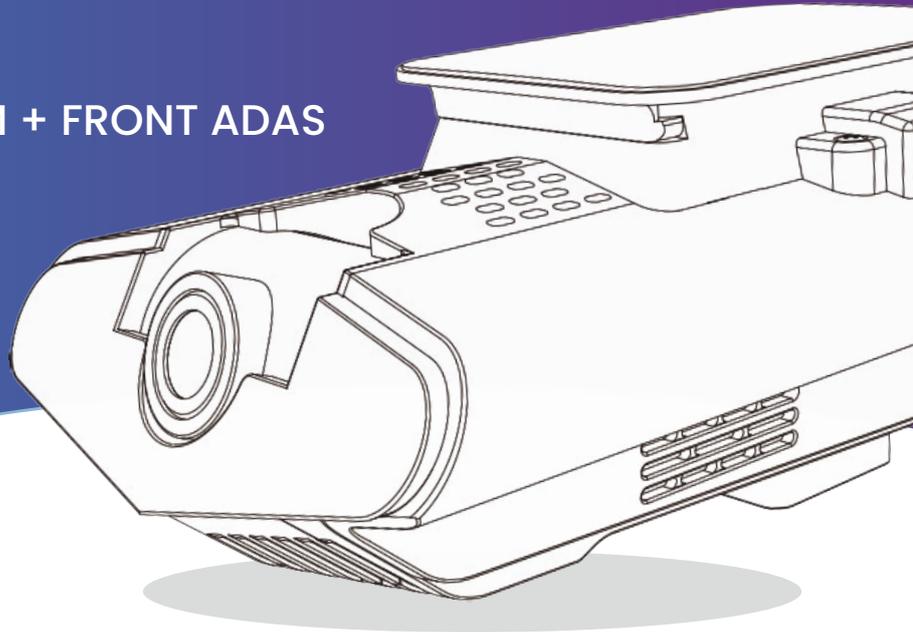




VT-F3

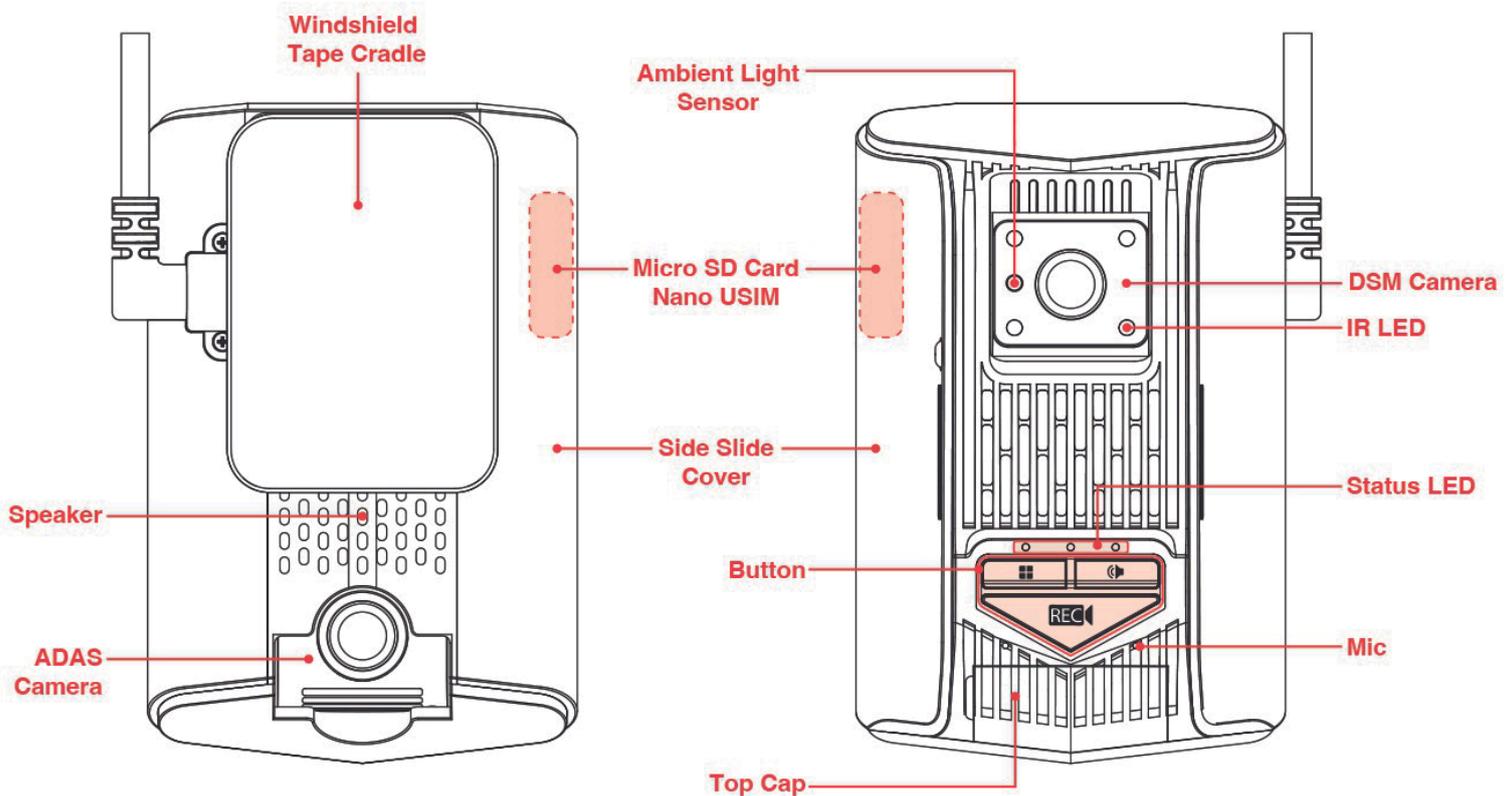
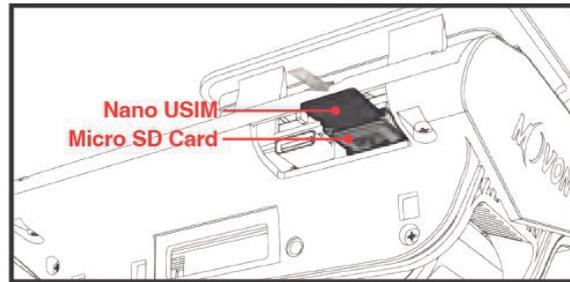
DRIVER MONITORING SYSTEM + FRONT ADAS

An AI-powered safety solution that monitors driver behavior and road conditions in real time—helping to prevent accidents caused by fatigue, distraction, or reckless driving.



PRODUCT OVERVIEW

Whether it's a long-haul journey or daily fleet operations, VT-F3 provides crucial alerts and records key events, ensuring both drivers and passengers stay safer on the road. By analyzing facial cues, head position, eye movement, and other behavioral signals, it offers real-time warnings to correct unsafe driving habits and encourage attentiveness behind the wheel.



ADAS (Advanced Driver Assistance System)

Monitors road and vehicle surroundings to provide timely alerts that improve driver awareness and reaction times:

Main Features	
	<p>Lane Departure Warning (LDW) Warning when the driver changes lanes in a solid lane Set speed above 40km/h</p> <p>LDW Freq LC (FLC) Warning when changing lanes frequently (regardless of lane type) Operation when changing lanes over the set number of lane changes per second</p>
	<p>Forward Collision Warning (FCW) Warning in situations where there is a risk of collision with the vehicle in front. Operates above 30km/h</p> <p>Forward Collision Warning 2 (FCW2) When changing lanes, it warns you if there is a risk of collision with the vehicle in front.</p>
	<p>Forward Proximity Warning (FPW) Alerts the driver when a vehicle is within the set range Operates within 0 ~ 30km/h</p>
	<p>Pedestrian Collision Warning (PCW) Alerts the driver when a pedestrian is nearby the vehicle and approaching towards pedestrian Operates within 0 ~ 50km/h</p>
	<p>Front Vehicle Start Alarm (FVSA) While stopped, it detects the movement of the vehicle in front and provides a warning if the vehicle stops after 2 seconds</p>
	<p>Headway Monitoring Warning (HMW) Attracts the driver's attention to keep the safe distance from the host vehicle to front vehicle by warning the driver</p>

DMS (Driver Monitoring System)

Tracks the driver's face and behavior to prevent fatigue or distracted driving:

Main Features	
	<p>Drowsiness Alarm occurs if you close your eyes for a certain period of time while driving</p>
	<p>Distraction Alarm occurs if you do not look ahead for a certain period of time while driving</p>
	<p>Yawning Alarm occurs if you yawn while driving</p>
	<p>Phone Use Alarm occurs when using a mobile phone while driving</p>
	<p>Smoking Alarm occurs when smoking while driving</p>
	<p>Seat-belt Reminder Alarm occurs when the belt is not worn</p>
	<p>Driver ID Detection An alarm occurs when a person other than the registered driver sits in the seat</p>

Technical Specifications

VT-F3 Technical Specifications

Application Processor		ARM Cortex A53 Octa-core@2GHz	
Memory	eMMC	16GB eMMC	
	SDRAM	2GB LPDDR3	
Resolution		FHD@30fps	
Camera Angle	ADAS	FOV=122.4°	
	DSM	FOV=131.7°	
MCU		ARM Cortex-M4, 32-bit	
		NA:	
Network	LTE FDD band support:	B2/B4/B5/B7/B12/B13/B25/B26	
	3G band support:	B2/B4/B5	
	EM:	B1/B2/B3/B4/B7/B8/B20	
	LTE FDD band support:	B38/B40	
	3G band support:	B1/B2/B4/B5/B8	
	GSM:	GSM850/GSM900/DCS1800/PCS1900	
AP: Asia-Pacific countries:		TBD	
Wi-Fi		IEEE 802.11 b/g/n	
Bluetooth		BT 4.2LE	
GNSS		GPS, GLONASS	
Antennas		LTE Main, LTE DRX, GNSS, Wi-Fi/BT	
IMU Sensor		6-Axis Motion Tracking™ IMU – Gyroscope	
LEDs		LED x 3	
Buttons		Multifunction, Volume, REC button (Panic)	
USB port		USB C-Type	
Speaker		Nom. 1W / Max. 1.5W micro speaker 89dB±3dB	
Microphone		MEMS microphone -42dBV sensitivity, 59dBA SNR	
Storage		Micro SD card is supported up to 128GB	
SIM		Nano SIM card slot	
Super Capacitor		6.0V/7.5F	
Power Supply		B+, ACC(IGN+), GND	
Input Voltage		DC 12V or 24V	
Temperature	Operating		-20°C ~ 70°C (-4°F~158°F)
	Storage		-40°C ~ 90°C (-40°F~194°F)

