

TELTONIKA ADAS

ADVANCED GPS TRACKER WITH ADVANCED DRIVER ASSISTANCE SYSTEM

By comparing rates of police-reported crashes, studies found that forward collision warning systems and crash avoidance technologies lower front-to-rear crashes by 27%. They may dramatically increase the effectiveness of driving, save lives, and vehicle repair costs. Having this in mind, we present you with the innovative video solution – Teltonika ADAS.

It is ideal to avoid potential accidents, its camera detects vehicles, pedestrians, bicycles, motorcycles, and lane markings on the roads. ADAS notifies the driver with sound and visual warnings of various events. Safety features are designed to avoid collisions and traffic accidents by offering technologies that alert the drivers, fleet managers, and dispatchers for potential collisions or common mistakes on the road by tracking and monitoring events in real-time. This comprehensive solution ensures the safety of the driver, road users, and vehicle with or without the cargo.

The collision warning system consists of the ADAS camera, which is mounted on the front window of the vehicle, and the Teltonika advanced GPS tracker FMC125, both connected via an RS-232 interface. ADAS camera detects alarming events in front and sends all the data to the dedicated server for further monitoring and analysis. Plus, it shows the Driver notification on events in front of the driver.

DRIVER NOTIFICATION ON EVENTS

The driver will get notifications (FCW, LDW, PCW, FVSA, FPW, SLR) via a display in front of the driver when events will occur on the road.

EVENTS TRANSFER TO THE SERVER

By receiving events data in the server, a fleet owner can analyse driver behaviour and avoid potential dangers on the roads.

VIDEO RECORDING

When the vehicle ignition is on, the ADAS camera starts recording and stores up to 15 hours of video length.



Technical data

Supported by	FMB640*, FMC640*, FMB125, FMU125, FMC125, FMB225, FMC225
Camera resolution	1280 x 720 (HD)
Diagonal field of view	60°
Horizontal field of view	52°
Vertical field of view	30°
Dimensions	80 x 120 x 50 mm
SD card	16 GB (included) up to 4 hours of video footage (max. 128 GB up to 85 hours of video footage)
Video encoding	H264

Electrical parameters

Input voltage range	9 – 36 V
Temperature	-20 °C to +70 °C (operating) -40 °C to +85 °C (storage)
Relative humidity	Max. 90 %

Interface

USB	USB 2.0 (for calibration)
CAN	CAN 2.0 (car signal – Left/Right, Speed, RPM, Brake)
RS-232	Indicator TX/RX (for communication with FMx125, FMX225, FMX640 devices)

Features

Photo/Video*	Using FMX640 you can request photo video from ADAS, or set periodical image sending to the server
PCW (pedestrian collision warning)	Notifies driver of any pedestrians, bicycles or motorcycles ahead
LDW (lane departure warning)	Helps to regain direction if the driver unintentionally departs lanes
FCW (forward collision warning)	Sends warning alerts if a crash is imminent to assist the driver in maintaining a safe travelling distance
FPW (forward proximity warning)	Notifies the driver if the vehicle moves forward while another vehicle is in the detection range, which can be set up at 1 m, 2 m, 3 m
FPVA (front vehicle start alarm)	Notifies the driver if the front vehicle started moving forward from 0 speed without the vehicle moving within 2 s
SDA (safety distance alert)	Attracts the driver's attention to keep the safe distance ahead by warning the driver (active from 30 km/h)
SLR (speed limit recognition)	Recognizes speed limit signs and provides warnings for over speed
DVR (digital video recorder)	Records scenes as HD resolutions into SD card before and after an accident (every minute in a loop)