

# InVision **ADAS** Solution

## All-in-One **ADAS + DMS** Solution for Commercial Vehicles

MDT600 Hardware Platform + ADAS/DMS Software System



# Solution Overview

One Device Replaces Many, Simplify the Cabin

**InVision** is an all-in-one intelligent vehicle safety solution by InHand Networks. The **MDT600** hardware platform (10.1" touchscreen + Android 14) runs ADAS forward warning and DMS driver monitoring software. All AI inference is processed on-board, eliminating cloud dependency. Customers can also deploy third-party applications (announcements, navigation, dispatch) on the same platform.

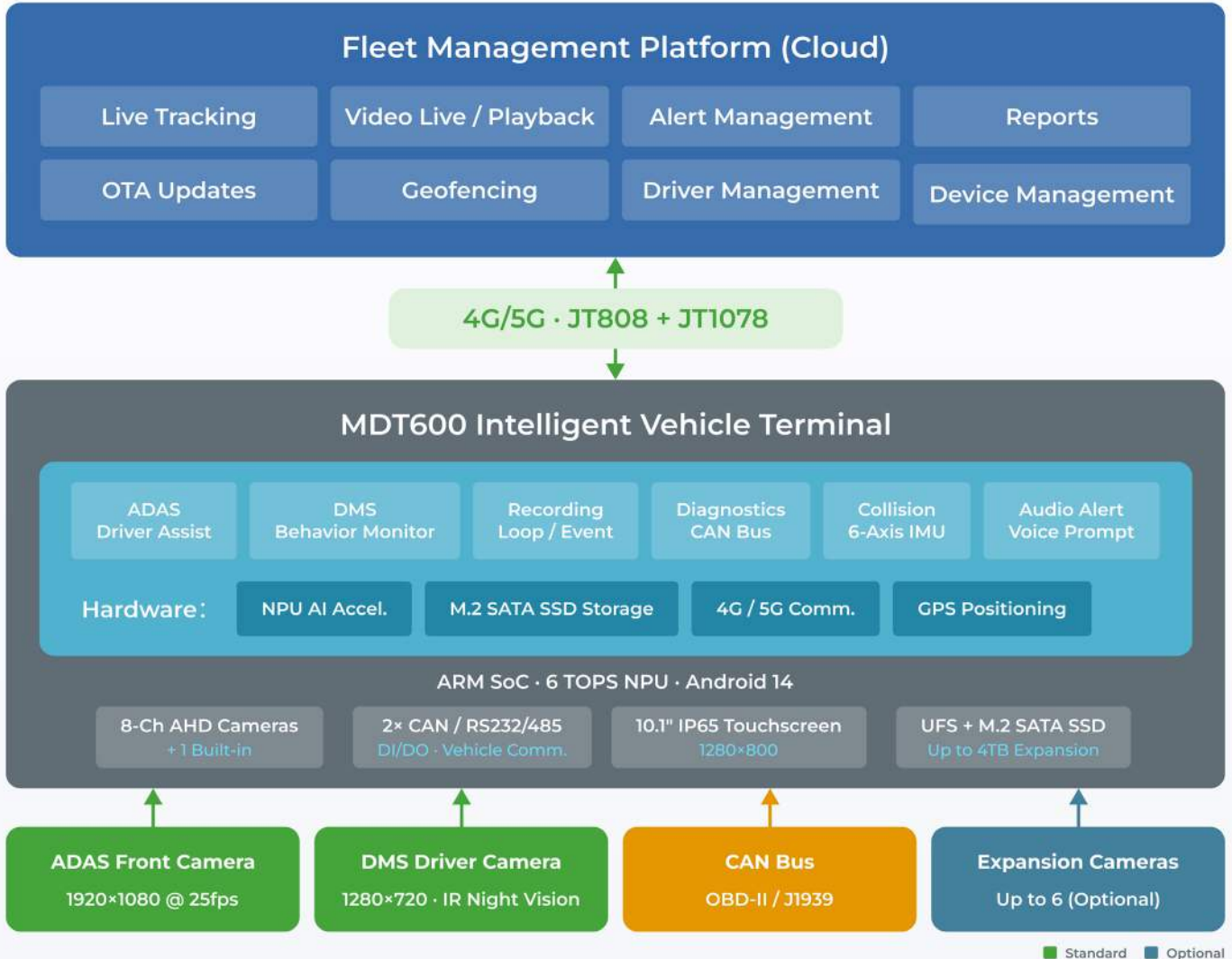
Traditional Setup	InVision
Dashcam	✓ Included
GPS Tracker	✓ Included
DMS Camera	✓ Included
OBD Reader	✓ CAN Native
Announcement/Nav	✓ 10.1" Screen + Android
5 Devices + 5 Cables	✓ 1 Device + 1 Cable

## Five Core Values

<b>1</b> <b>All-in-One</b> ADAS, DMS, Recording, Fleet Management + Open Platform / Deploy dispatch, navigation, announcement apps	<b>2</b> <b>Active Safety</b> 7 Warnings + 6 Monitoring / Edge AI <100ms	<b>3</b> <b>Fleet Managed</b> Real-time Monitoring, Alert Evidence / OTA Upgrade, Geo-fencing	<b>4</b> <b>Open Platform</b> Android 14 System / Support Custom APPs, Standard Protocols	<b>5</b> <b>Vehicle-mounted Installation</b> IP65 / -30°C~+70°C / 9-48V Wide Voltage
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# System Architecture

## On-Board + Cloud + Peripherals



## Solution Components

### Mobile Data Terminal

MDT600 Unit

10.1" Touchscreen +  
Android 14 / 6 TOPS NPU  
+ 8GB RAM / Built-in  
ADAS/DMS/Recording

### Sensors/Cameras

Front + Driver + Extension

ADAS Front Camera  
(1080P) / DMS Driver  
Camera (1080P) / Up to 8  
Cameras Supported

### Fleet Cloud Platform

Unified Management

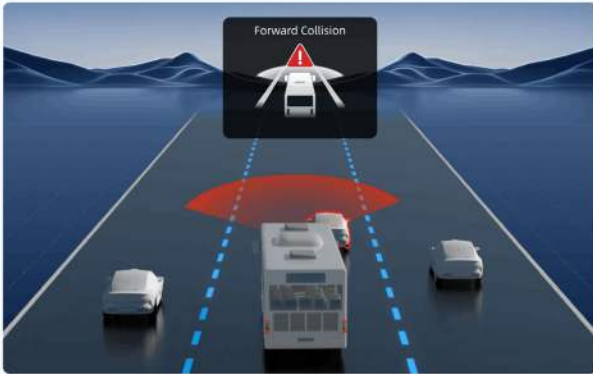
Real-time Monitoring /  
Live Video / Alert  
Management / Playback /  
Geo-fencing / OTA  
Upgrade

# Core Features

## ADAS + DMS + Event Recording

### ADAS

#### Advanced Driver Assistance (7 Features)



- FCW** Forward Collision Warning — 1.5-2.5s Alert
- IMU** Aggressive Driving — 4-Level Grading
- CRASH** Collision Detection — Auto Recording
- SSR** Stop Sign Recognition — Voice Reminder
- SLR** Speed Limit + Over-speed — 3-Level Threshold
- LDW** Lane Departure Warning — Smart Suppression
- PCW** Pedestrian Collision Warning — Real-time Detection

### DMS

#### Driver Monitoring (6 Types)



- Eye Closure** — >30% in 4s **Fatigue**
- Yawning** — >50% in 4s **Fatigue**
- Seatbelt** — Real-time Detection **Safety**
- Distracted** — Gaze Offset **Distraction**
- Distracted** — Gaze Offset **Phone**
- Smoking** — Cigarette Detection **Smoking**

## Event Auto Recording (Evidence Preservation)

#### Alert Triggered

20s Before/After  
Alert\nAuto Capture  
Evidence

#### Continuous Loop

Continuous  
Recording\nAuto  
Overwrite When Full

#### Collision Protected

Collision  
Triggered\nCannot Be  
Overwritten

# Hardware Platform MDT600

10.1" Vehicle Terminal | 6 TOPS NPU | Android 14



Item	Specification
Processor	A72×4 + A53×4, Up to 2.0GHz
NPU	6 TOPS Neural Processing Unit
Memory	8GB LPDDR4
OS	Android 14
Display	10.1" IPS, 1280×800, IP65
Camera	1 Built-in + 8 External AHD
Connectivity	5G/4G, Wi-Fi 6, BT 5.0
Positioning	GPS/BeiDou/GLONASS/Galileo
CAN Bus	2× CAN 2.0 (OBD-II + J1939)
Storage	256GB UFS + SSD Extension (Max 4TB)
Protection	IP65, IK08
Temperature	-30°C ~ +70°C
Power	9-48 VDC Wide Voltage
Dimensions	300 × 182 × 38 mm

**8 Cameras**

Full Coverage

**CAN Native**

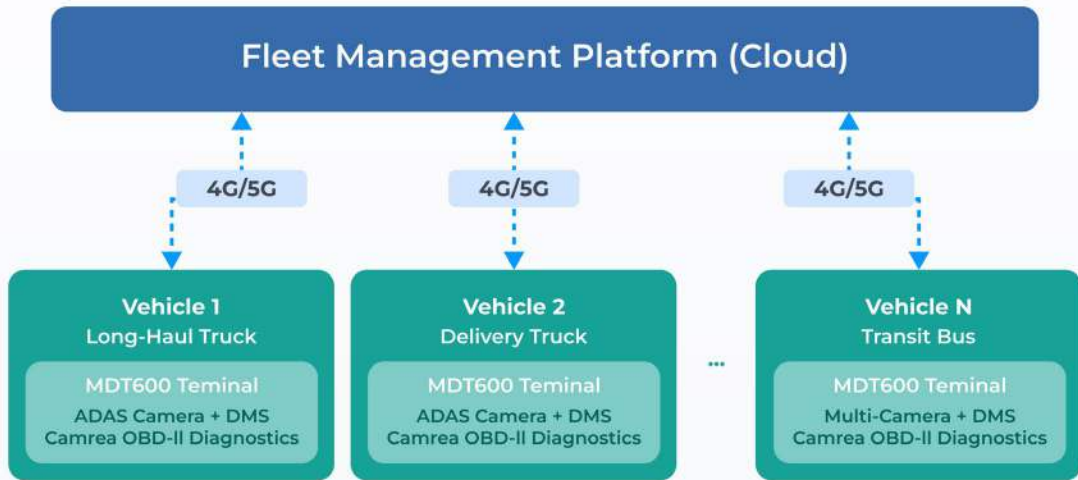
No Gateway Needed

**Open Platform**













Custom APPs

# Fleet Management Platform

30-Minute Quick Installation | Unified Fleet Management



## Platform Functions

-  Real-time Monitor
-  Live Video
-  Playback
-  Alert Management
-  Driver Management
-  Notifications
-  Device Management
-  Track Playback
-  Geo-fencing
-  Route Management
-  Reports
-  OTA Upgrade

Protocol Support: JT808 (Location Data) | JTI078 (Video Transmission) | DB32 (Video Attachments)

Fleet Scale: Single Platform Manages 1000+ Vehicles — Each Vehicle Runs Independent AI Inference

# Application Scenarios

## Five Scenarios for Different Industries



### Bus / Coach

**Customer:**

Public Transit Operators

**Value:**

Replace 3-4 Devices in Cabin

### Long-haul Trucking

**Customer:**

Fleet Owners (50-5000)

**Value:**

ADAS+DMS Reduce Accident Rate



### Special Vehicles

**Customer:**

Hazardous / Construction

**Value:**

JT808/DB32  
Compliance, Safety



## School Bus

**Customer:**

School Bus Operators

**Value:**

Multi-Cameras + Stop Sign

## Municipal

**Customer:**

Municipal Fleets

**Value:**

GPS+CAN+Recording  
All-in-One



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