



"A portable equipment with panic button and black box functionalities for automobiles"

"Seeking industrial partners for co-development, production and marketing"

Preface

- All public service vehicles registered on or after 01 Jan 2019 have to be fitted with AIS 140 (IRNSS) certified Vehicle Location Tracking Devices (VLTD) with panic button models registered with State's Transport Department as per Motor Vehicles (Vehicle Location Tracking Device and Emergency Button) Order, 2018.
- AIS 140 certification has to be obtained from ARAI, CIRT, ICAT, CFMTTI, IIP, VRDE, or GARC, referred to in rule 126 of the Central Motor Vehicles Rules, 1989.
- Timely activation of panic button /alert system during incidence of collision is a crucial parameter in choice of these systems.
- Most of the alert systems currently in market lack Black box/T-box functionality which make post-collision forensics impossible.
- We are offering license for an equipment which has mechanism to overcome abovementioned limitations.

Market Size & Growth Projection

- The Global Vehicle Telematics market is projected to grow from USD 64.93 billion in 2021 to USD 179.5 billion in 2028 at a CAGR 15.6 % over the forecast period. [Source: Fortune Business Insights]
- To ensure safety of road bound passengers in light of increasing incidences of on road crimes, Government of India has made compulsory installation VLTDs with panic button for all public service vehicles and establishment of command centers at state level for live tracking.
- As on 31 March, 2018, total number of motor vehicles in the national capital territory of Delhi were 109.86 lakhs showing growth percent of 5.81 % to the year 2017. Cars and jeeps numbered 32,46,637, while autorickshaws numbered 1,13,074. [Source: Economic times survey]
- Fleet Management Companies like Ola and Uber are set to install panic button facility in their fleet keeping in view strict government guidelines ensuring safety of passengers.
- Automobile Industry is evidencing sluggish growth due to COVID and the industry is set to pull customers by offering innovative technologies & services like VLTD with panic button and 24X7 on-the-go customer support to tackle emergency scenarios.

The Technology

An automatic alert system cum T-box for emergency incidences like vehicular collision.

Innovator

Prof. Vimal Bhatia et al., Indian Institute of Technology Indore
[<https://iiti.ac.in/people/~vbhatia/>]

Value Proposition

- Ease of integration
- Simple construction and components
- Affordable
- Reliable
- Automatic acoustic/mechanical sensor based activation of sound recording and alert system
- Continuous mapping of vehicles in vicinity with similar devices
- Powered by vehicular battery

Industrial Utility

- Panic Button systems in automobiles
- T-box systems in automobiles

Intellectual Property

- Patent applied in India

Development Status

- Proof of concept established

On Offer

- Right to use, make, have made, import, export, sell, and offer to sale the system.

Technical Support

- Optional Technical Consultancy on payment basis

Competition

- System has competitive edge in terms of accuracy, reliability and affordability making it an ideal choice for panic button in automobiles.

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i-TTO, a regional tech transfer office established at FITT with support from NBM, BIRAC



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