Background

In accordance with Public-private ITS Initiative / Roadmaps 2020 and 2021, driverless autonomous mobile service is in the phase of demonstration experiment and social implementation to put the service into practical use in 40 places in 2025 and nationwide around 2030, as countermeasures for social problems including aging population and labor shortage. Autonomous vehicles in this service needs to be operated by hand or remote-controlled in case of emergency or when a vehicle is out of the specific zone.

Social problems

- Training is required for unique operating control units that differ from conventional steering wheel
 Control units require strength and reliability as with conventional devices .
- It is difficult to connect mechanically and electrically because such control units consist of many components.

Overview

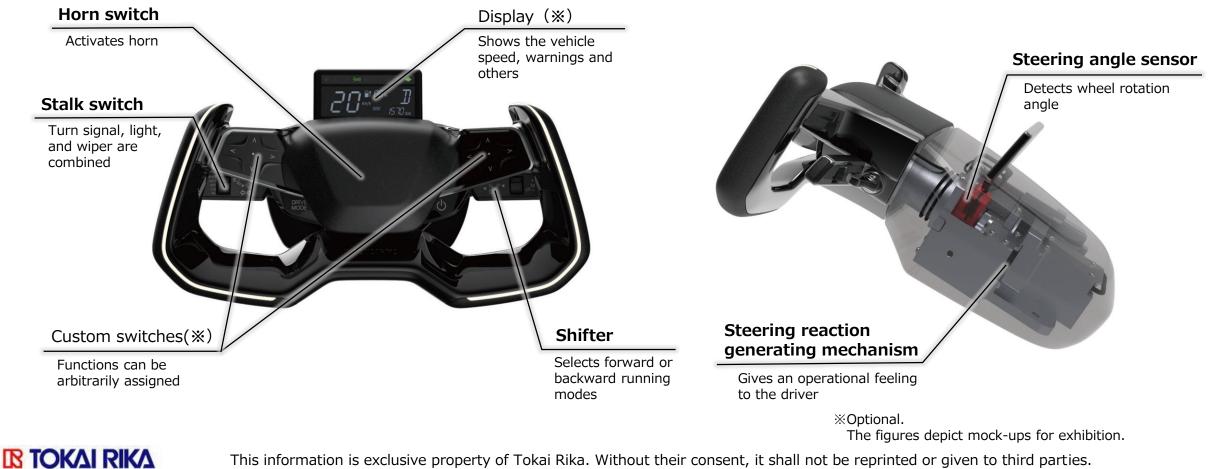
- \cdot Operation feeling equivalent to a conventional car
- A turn signal switch, wiper switch, shifter, display, and sensors are integrated.
- $\boldsymbol{\cdot}$ Connectable to a car or system with a connector



Remote control / On-board control unit

Technology Introduction

A turn signal switch, wiper switch, shifter, display, and sensors are integrated.



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Remote control / On-board control unit

Specification

Size	W 365mm×D 370mm×H 265mm
Weight	5kg
Steering angle range	Max±150°
Rated voltage	12V
Communication specification	CAN
Loaded functions	Turn signal switch
	Light switch
	Wiper switch
	Shifter
	Horn switch
	Steering reaction generating mechanism
	Steering angle sensor
Options	Custom switches
	Display
	Accelerator switch
	Brake switch
	Power switch

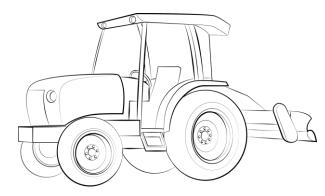
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Remote control / On-board control unit

Application Examples

Application to mobilities other than mobile services



Agriculture





Construction machines

Forklifts



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