V- LOC

Link ROBOTICS

V-Loc is simple and robust localization technology for mobile robot systems providing high accuracy and infrastructure free positioning.

Our system uses natural features in environment as reference for localization, with no further infrastructure need such as inductive wires, magnets or reflectors.

Using robust sensor fusion technology and energy efficient GPU processor - based system, V-Loc provides accurate localization data compliant with other sensor data that is utilized for other tasks such as path planning, obstacle avoidance etc.

Technical Specifications

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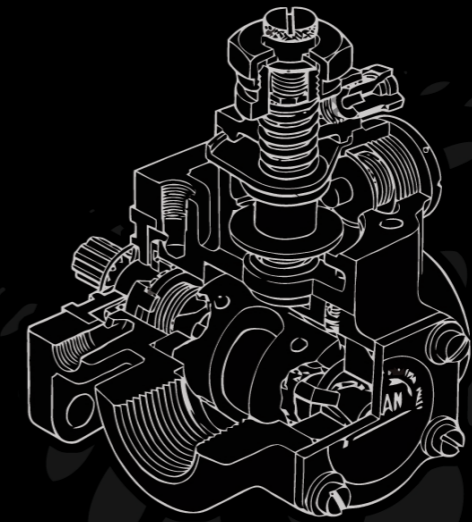| Functionality	
Purpose	Indoor Localization
Infrastructure	Not required
Compatible Vehicles	
Kinematics	Any (Differential drive, skid-steer, etc.)
Maximum Speed	Up to 0.5 m/s
Localization	
Localization Accuracy	1 cm and 1 ^{o}
Localization Rate	10 Hz
Communication	
Interface	Ethernet (TCP/IP)
	ROS Node available on request
Configuration and Monitoring	via Graphical User Interface (provided)
Compatible Sensors	
Laser Scanners	Hokuyo, Sick
Hardware	
Embedded PC	GPU Based SBC
Operating Voltage	24 V
Power Consumption	Less than 20W
Operating Temperature	-10 ^{0} to 40 ^{0}C
IP rating	None
Dimensions	195x150x120 mm
Weight	2.7 kg
Technical Specifications	
Accuracy	Relative %1
	Absolute 1 cm
Lighting	LED
Clearance to Ground	10-20 cm (Adjustable upon request)

V-Loc is an easy to install and user-friendly system, which can be integrated very quickly by the trained personnel.

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📍 Sahrayıcedit Mah. Atatürk Cad.
Osman Nuri Ergin Sok. No: 12/3
34734 Kadıköy, İstanbul, Türkiye

Bilişim Vadisi Muallimköy Mah.
Deniz Cad. No:143/8 C1 Blok
Zemin Kat No: Z01/K08 Gebze/Kocaeli

📞 +90 216 386 58 27   ✉ info@linkrobotics.tech

www.linkrobotics.tech

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