VIPER[™] 3D visual perception system enables intelligent automation with the turn-key set of hardware and AI software. Its key features: low power, small size, light weight, ingress protected, non-interfering passive optical sensing, on-board image processing pipeline, low light tolerance, extensible with perception apps, available to adapt to tailor-made application, developer friendly.

TECHNICAL SPECIFICATIONS



PERCEPTION APPS

Standard (separately available)	
Follow-me	Continuously measures distance to the previously registered object/human
Obstacle Detection	Detects obstacles for robot navigation and collision avoidance purposes
Tag Detection	Tracks supplied Aruco/QR codes and measures distance to them
Safety Volume Guard	Detects trespassing attempts with respect to the predefined safety volume box
Object Identification	Identifies objects based on pretrained object classes, evaluates their position and orientation
3D SLAM	Performs 3D vision based simulataneous localization and mapping

EVALUATION KIT PACKAGE CONTENTS

VIPER[™] 3D Visual Perception System, AC adapter, Ethernet cable, Tripod, User Guide, System Development Kit

SYSTEM DEVELOPMENT KIT CONTENTS

Help: documentation and samples

API: ROS + Linux (built-in), ROS.NET + Windows (adapter library provided) Host system requirements: Linux + ROS or Windows 10 + .NET4.5 Framework









