



## Welcome to the May 2017 edition of the Telerob newsletter

In this edition we would like to introduce you to two of our latest products and invite you to read about what has been going on at Telerob. As always, for more information please visit our website. Enjoy reading!



## IP Mesh radio with repeater functionality

### Up-to-date radio transmission for our telemax family

#### Features

- Fully integrated IP Mesh radio transmission
- One single transmission path for control, data and video
- Digital connection
- Automatic network configuration
- Any additional telemax with IP Mesh radio can be used as repeater
- Radio range: at least 1000 m (LOS)
- PoE port on communications unit

#### Benefits

- Available for all models of the telemax family
- One single frequency covering large territories
- Stable transmission of radio frequency signals, optionally encoded
- Easily increasing the operating range by using optional repeater(s)
- One or several telemax systems can be used to expand the radio network
- Wide radio range ensures working at a safe distance
- Connections/ports for switches and access points on communication unit



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## TELEROB USA Inc.

In October 2016, TELEROB incorporated a subsidiary in the United States of America in charge of sales and after sales activities in the US. TELEROB USA Inc. has its registered office in Erie, Pennsylvania, managed by Mr. Adam Jaroh as its president.

### Contact data:

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## Autonomy module

The step forward for our telemax family!

### Features

- Modular design: base module, sensors and signal device
- ROS based appliance with Intel i7 quad core processor
- High precision Time of Flight (TOF) sensor
- High performance 2D laser scanner for simultaneous localization and mapping (SLAM)
- Full HD camera
- 6 axes inertial measurement unit (IMU)
- Route visualization as camera overlay
- Integrated Wifi hotspot

### Benefits

- Future-proof base module enables use of various sensors
- Allows to run demanding software, compatible with both Telerob and third party ROS applications
- Safe autonomous navigation in dynamic environments even in complete darkness
- Autonomous waypoint navigation including return-to-home
- High resolution photo realistic 3D maps
- Measurement of rotation and acceleration on all axes
- Improved situational awareness
- Mobile device access
- Maps can be saved for post-mission analysis



## Durchblick

TELEROB is engaged as a partner in the German-Austrian joint funding program "Zivile Sicherheit – Aspekte und Maßnahmen der Terrorismusbekämpfung" ("Civilian Security – aspects and measures for the fight against terrorism"). The project „Detektion unterschiedlicher unkonventioneller Spreng- und Brandvorrichtungen mittels intelligenter analytischer Sensorik“ ("Detection of various IEDs by means of smart analytical sensors") investigates high performance, new sensor technology based on robotics and the effective presentation of data.



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