



National Research

**Tomsk
State
University**

International Laboratory
"Vision systems"

Application

- engineering, radiological and chemical reconnaissance (in hazardous industries)
- installation of sensors of the automated system for monitoring radiation and chemical safety in specified areas
- search for people in conditions of indoor smoke and disaster environment
- monitoring of the control area around guarded objects
- indoor inspection after emergencies
- inspection of suspicious and explosive objects

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ScoutBot



ScoutBot

Remote-controlled system used for engineering, radiological and chemical reconnaissance, and search for radioactive sources

The system consists of the following elements: universal control station, robotic platform of the increased cross-country capacity, chassis cameras, high-resolution camera with 24x optical zoom, night vision camera (thermal imager, gamma-locator, high-radiation resistant camera), ASMRCS (automated system for monitoring radiation and chemical safety), directional auto tracking antenna, sweeper units, clamshells.

Installation of additional accessory equipment is possible.

Performance characteristics

- size (length x width x height, mm) – 1000 x 500 x 400;
- travel speed is up to 10 km/h;
- additional equipment load up to 30 kg;
- overcoming vertical obstacles up to 20 cm in height;
- overcoming staircase wider than 0.6 m;
- overcoming stairs with 45 degrees inclination;
- climbing height up to 55 degrees inclination;
- capability to drive on loose snow (layer of snow up to 10 cm);
- capability to drive inside buildings and constructions;
- weight with a full set of equipment is 57 kg.;
- capability to drive on cross-country terrain;
- controllable distance is up to 1 km without auto tracking;
- digital data communications system (up to 20 km);
- system of digital monitoring and automated control;
- power reserve without recharging up to 24 hours.