

Fact Sheet TSV-X

TSV-X terrestrial scouting

The TSV-X (terrestrial scouting vehicle) is a highly mobile leg-wheel hybrid rover which can be used in difficult outdoor environments. The system can be tele-operated via video link.

TSV-X does not rely on an external power supply, but can operate for multiple hours with its on-board batteries. The powerful motors allow the system to carry payloads of multiple kg in mass.

A version with more sensors and a more powerful on-board PC to process the sensor data is available both tele-operated (TMV-X) and as an autonomous version that performs waypoint navigation with local obstacle avoidance is available (TMV-A-X).



TSV-X rover

Size	95 cm x 54 cm x 42 cm
Weight	9,5 kg
Payload	3 kg
Power Supply	10 Ah / 30 V Lithium Polymer
Speed and range	2 m/sec – 5 km
Actuation	4 x 80 watts Faulhaber dc motors – planetary gear 46:1
Sensors (built in)	Motor encoders, Current sensors
Payload sensors (optional)	Zoom- and IR-camera
Communication	868 Mhz ISM band (control and telemetry)



TSV-X rover in action