

RT-Backpack

Comprehensive ADAS testing solutions

The RT-Backpack is a vehicle to pedestrian tracking solution. Capable of tracking the position of pedestrians relative to a moving vehicle.

Suitable for use on OxTS ADAS testing solutions.

>> Key features

- >500 m range line-of-sight (with RT-XLAN)
- 1 cm positioning (with RT2002 or RT3002)
- Real-time
- Precise measurements
- Compact size
- Portable

>> Applications

- For RT-Range ADAS testing solutions
- Car to pedestrian
- Car to motorcycle or cycle
- Tracking of multiple pedestrians or motorcyclists possible

>> Complete pedestrian solution

The RT-Backpack is a complete turnkey target system in a backpack that can be carried by a pedestrian.

It helps vehicle manufacturers design, develop and test vehicle-to-pedestrian tracking systems by giving an objective and accurate measurement of the distance from the car to the pedestrian. It does this by transmitting all the signals to the Hunter vehicle in the same way as a normal Target.

The RT-Backpack can also be used to track motorcyclists or cyclists as well as pedestrians.

>> Simple, practical and highly accurate

The RT-Backpack can be set up quickly and requires no further user intervention once configured. The highly accurate RT-Series Inertial and GPS navigation systems can be mounted securely on the frame inside. It comes with a battery capable of powering the RT system for up to 5 hours, a precision GPS antenna, Wireless LAN radio and a battery charger.

The unique RT-Backpack system works just like a Target in the RT-Range. The RT-Backpack feeds real-time measurements to the Hunter vehicle using Wireless LAN. The RT-Range Hunter receives data from the RT-Backpack Target system, computes the measurements online and is able to output them over Ethernet or CAN bus.

>> Great addition to an existing RT-Range system

If you already have an RT-Range system for developing and testing Advanced Driver Assistance Systems (ADAS), you can now expand your tests to include car-to-pedestrian tracking. Both systems can be used together to get accurate measurements of the distance from a vehicle to the pedestrian.

All possible traffic scenarios for your ADAS testing needs are possible here with ease and high accuracy.

>> What is the RT-Range S and RT-Range?

The RT-Range S and RT-Range is a system that can measure the range from one vehicle to other vehicles in real-time and output its measurements on the CAN bus. It is used for the development and validation of advanced driver assistance systems (ADAS).



>> RT-Backpack specification

Battery	7 Ah battery
Positional accuracy (m)	0.01 RTK (dependent on RT model used)
GNSS Antenna type	GPS/GLONASS/L-Band, TNC, ground plane, L1/L2
Mass (kg)	~5.0
Dimensions (mm)	340 x 270 x 180

>> * RT-XLAN specification

Input voltage	up to 24 V dc
Power (W)	~ 7
Power method	Passive Power over Ethernet
Operating temperature	-40° to 80° C
Operating humidity	5 to 95 % condensing
Wireless LAN radio range	>500 m line-of-sight
Wireless LAN delay	<10 ms RMS

* regional local wireless laws may apply to use the RT-XLAN - please check with your local representative



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77 Heyford Park, Upper Heyford, Oxfordshire, OX25 5HD, UK
Tel: +44 1869 238 015

Email: sales@oxts.com

Web: www.oxts.com

