

Redefining Tyre Measurement

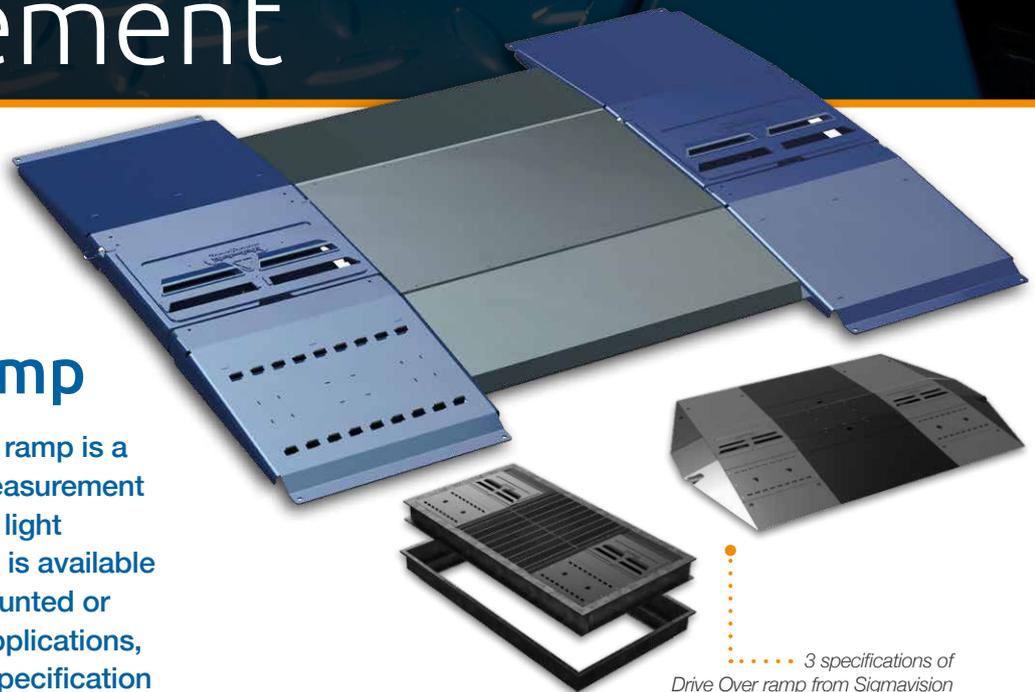
TreadReader

Drive Over Ramp

The **TreadReader™** Drive Over ramp is a fully automated tread depth measurement system for passenger cars and light commercial vehicles. The ramp is available in 3 specifications: Surface-mounted or flush-mounted for workshop applications, and a 'beyond the workshop' specification for the highest traffic-volume retail locations, such as public carparks.

As vehicles pass over the ramp, the **TreadReader™** laser measurement system captures detailed 3D images of each tyre, revealing tread depth and tyre wear. ALPR captures the vehicle registration. The system records 300,000 data points on each tyre to ensure accurate and repeatable measurements. The ramp sensors are kept clean by the use of air knives and a shutter mechanism.

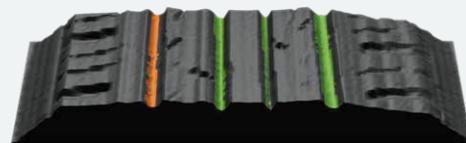
Surface-mounted ramps require no groundworks, whilst a shallow pit is required for the flush-mounted ramp. **TreadReader™** ramp sensors can also be integrated into other workshop equipment, e.g. lifts, wheel alignment machines, brake testing machines and vehicle inspection lanes.



3 specifications of Drive Over ramp from Sigmavision

TreadReader™ 3D tyre scans produced by the Drive Over ramp are unrivalled in the industry. The accurate tread depth images reveal any uneven wear, symptomatic of wheel misalignment or worn suspension, so no additional investment in the workshop is required for wheel alignment check equipment. The scans enable tyre replacement at the optimum time to maximise tyre safety.

Rear Left NSR 80% worn
mm 2.8 3.1 3.2 3.5



Treadreader™ 3D tyre scan

TreadManager

Tyre Sales Management Service

Developed by Sigmapvision, **TreadManager™** is a cloud-based Tyre Sales Management Service for improved management of tyre sales opportunities. The service provides users with a single point of online access to all vehicle reports and tread data for vehicles scanned using a Drive Over ramp.

For ramps in a workshop or service drive setting, a software license is provided to run **TreadReader™** software on a PC. Seamlessly integrated with **TreadManager™**, this software analyses the tyre scans, calculates tread depths and generates the **TreadReader™** 3D images.

By then logging in to the **TreadManager™** Portal, workshops and Service Managers can view all data on the number of vehicles scanned, activity by technician, and sales opportunities for new tyres and wheel alignments. **TreadManager™** maintains

customer data to predict tyre lifetime and build trust with customers, by helping them make informed decisions about tyre replacement.

TreadManager™ and **TreadReader™** software are integrated with many eVHC systems and tyre management software providers, bringing 3D scans directly into proprietary systems, making the **TreadReader™** Drive Over ramp an invaluable tyre inspection and diagnostic tool for all workshops and dealerships.



Log in to
treadmanager.net
for tread data and
reporting

TreadManager™ screens presenting multiple vehicle summary and tyre scans with diagnostic recommendations

Description	Specification (surface mounted Workshop ramp)
Ramp dimensions (L x W x H)	1.804m x 2.207m x 0.097m ≈ 5.9' x 7.2' x 3.8"
Maximum scan width	2 x scan zones of 600mm ≈ 23.6"
Arc length viewed (min)	35-50mm ≈ 1.4-2"
Measurement accuracy	< 0.2mm
Directional	Measures leading edge of the tyre
Recommended vehicle speed	6.5-13 km/h ≈ 4-8 mph
Cycle time within permitted speed range	Approx 10 secs (from front axle of 1st car to front axle of next car including display of scans and measurements)
Power	Mains (230VAC, 5A) for PC and touch screen 12VDC, 2A for roll-over ramp
Measurement trigger	Pressure switch
Maximum axle weight	1,500Kg
Environmental protection	Shutter + air knives (compressed air supply required, if portable >100L, 8 – 10 BAR)
Environmental rating (sensors)	IP67 min
Operating temperature range	0°C - 50°C ≈ 32°F - 122°F
Communication	Ethernet
Data outputs	3D tyre scans and tread depths
Software license	Windows 7 or later / security key protected

Data correct at time of printing