

Redefining Tyre Measurement

TreadReader

Hand Held Scanner

The **TreadReader™** Hand Held scanner is a unique product in the global market. The scanner produces accurate tread depth readings for tyres of all vehicle types. Detailed 3D images of tread depth and tyre wear set this product apart from all other manual and digital tread depth gauges. The tyre scan images are colour-coded to reveal any uneven or premature tyre wear caused by wheel misalignment or incorrect inflation.

Use of the **TreadReader™** scanner makes it possible to replace tyres at the optimum time. This maximises tyre safety and ensures compliance with legal tread depths, or the terms of a tyre replacement policy. For tyre retailers and workshops, swift and accurate tread depth measurement can present additional revenue opportunities for increased tyre sales or wheel realignments.

The Hand Held scanner is a compact and lightweight device, making it quick and easy to use. The scanner is positioned on one edge of a tyre and operated by sliding it across the tread face. **TreadReader™** is suitable for wet or dirty tyres and is ideal for all tyre inspection applications in workshops, service centres, inspection lanes, commercial vehicle yards and at the roadside.



Unrivalled in the industry, **TreadReader™** 3D scans are intuitive and quickly build trust with the customer. The detailed colour-coded 3-dimensional images show the condition of the tyre tread with absolute clarity.

When presented to a vehicle owner, **TreadReader™** scans remove any perceived barriers to tyre replacement when tread depth is insufficient or illegal. In revealing causes of premature or uneven wear, the scans can also create an opportunity to discuss corrective action to prolong tyre life.

Constructed from 320,000 measurement points, the scans present the full tyre width and 50mm of the tyre's circumference, with an accuracy of < 0.2mm or 0.008". **TreadReader™** devices far surpass the reliability and repeatability of traditional dip gauges and non-contact 'laser pointer' measurement devices.

Rear Left NSR 79% worn
mm 2.9 3.4 3.7 3.8



TreadReader™ 3D tyre scan

TreadReader™ App

The **TreadReader™** scanner integrates easily with existing workflows and business processes. The device is used in combination with the **TreadReader™** App, which captures data and presents 3D scans in real time. Intuitive and easy to use, the **TreadReader™** App connects a tablet or mobile phone to the Hand Held scanner via point to point or network Wi-Fi.

Tyre scans and tread depth data are visible in the App immediately after scanning each tyre, and multiple sets of tyre scans and vehicle data are stored until required. The App also generates a Customer Tyre Report, which can be printed for the customer to view. The report presents the 3D tyre scans with colour-coded tread depths and any warnings for each axle and tyre position.

TreadManager

Tyre Sales Management Service

Developed by Sigmapvision, **TreadManager™** is a cloud-based Tyre Sales Management Service giving **TreadReader™** users a single point of online access to all vehicle reports and tread data for vehicles scanned using one or more Hand Held scanners.

By logging in to the **TreadManager™** Portal, workshops and Service Managers can view 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.

The **TreadReader™** scanner is also integrated with many eVHC systems and tyre management software providers, bringing 3D scans directly into proprietary systems. This makes the **TreadReader™** scanner an invaluable tyre inspection and diagnostic tool for all workshops and dealerships.



Manage Treadreader™ via App, TreadManager™ or system integrations

Description	Specification
Dimensions (L x W x H)	186mm x 96mm x 84mm ≈ 7.3" x 3.8" x 3.3"
Scan zone	50mm x 26mm ≈ 2"x1"
Weight	< 650g
Measurement accuracy	< 0.2mm ≈ 0.008"
Laser class	Class 1
Operating temperature	0°C to 50°C ≈ 32°F to 122°F
Communication	Via Wi-Fi direct to phone, or over Wi-Fi network
Environmental rating	IP 54
Power	5V DC rechargeable Li-Ion battery
Mobile device software license	Android 5.1 or later, Windows (future release)

Data correct at time of printing