

Technical Disclosure Commons

Defensive Publications Series

November 2020

Pics Tread Depth Measurement (PTDM) Next Smartdiag Features

Philippe Lefaure
LDL TECHNOLOGY

Follow this and additional works at: https://www.tdcommons.org/dpubs_series

Recommended Citation

Lefaure, Philippe, "Pics Tread Depth Measurement (PTDM) Next Smartdiag Features", Technical Disclosure Commons, (November 18, 2020)
https://www.tdcommons.org/dpubs_series/3782



This work is licensed under a [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/).

This Article is brought to you for free and open access by Technical Disclosure Commons. It has been accepted for inclusion in Defensive Publications Series by an authorized administrator of Technical Disclosure Commons.

Pics Tread Depth Measurement (PTDM) Next Smartdiag features



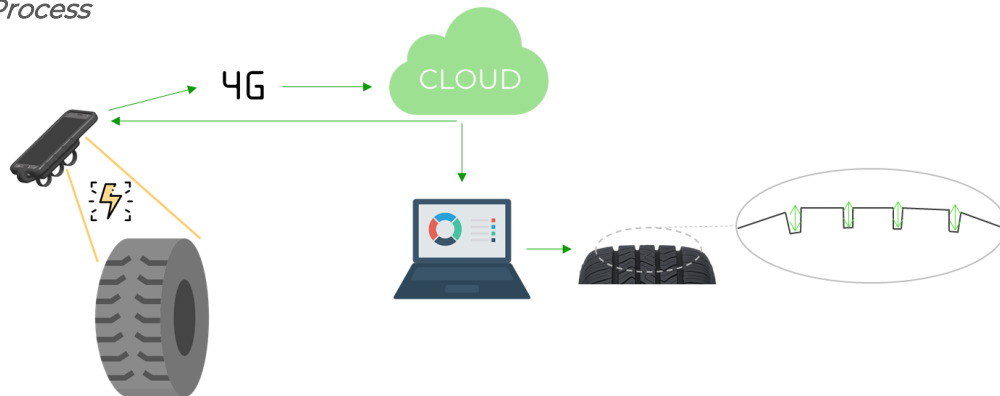
Smartdiag tool, developed by LDL TECHNOLOGY, offers wireless functionalities such as tire pressure measurement, temperature and RFID R/W. To these current features a new one will be added: tread depth measurement using Mobile camera.

Tire tread depth is an important part of the vehicle maintenance because it has a strong influence on braking performances. Measuring it is an effective way to control tire grip, wheels alignment to ensure vehicle safety. As different ways exist to control tire tread depth, analyzing tire surface picture done by Smartdiag is a simple, quick and cost-effective solution to do it.

Indeed, the wireless device, combined with TPMS sensors in the wheels, provide a complete tire data package with:

- tire pressure and temperature in real time
- unique ID number contained in the RFID
- tread depth of each tire groove

Smartdiag Process



Through picture data analysis, Smartdiag new feature will ensure accurate and repeatable measurements, even if the tire is wet or dirty in one shot decreasing checking time by 3. This multiple points of measurements in **One** time allow to determine if there is an abnormal depth or alignment wheel problems.

Diagnosis

