

The following document includes a ViaFriction system for measuring the friction level on road pavements.

## 1. Product summary

### 1.1 ViaFriction Trailer 1000 Liter:



The trailer includes the following:

1. ViaFriction unit mounted in the left or right wheel path. Vertical static load > 100 kg
2. Trailer (EU approved) with coil springs and hydraulic shock absorbers.
3. Control system for pump and friction unit.
4. Lifting device.
5. Odometer.
6. Water pump. Water thickness can be adjusted from control PC
7. 1000-liter water tank with integrated damping for driving comfort. The tank has external level meter. The level can also be monitored by the control PC. 30 km measuring with one head.
8. Refill capability from towing vehicle.
9. Power supply, battery and battery charger. The trailer can operate without charging from car. The trailer can be charged from wall.
10. Wired network and WiFi communication to PC.
11. 4G modem for remote support and internet connection.
12. GPS/GNSS (5-15 m of accuracy)
13. Protection system to prevent dry run.
14. Trailer hard cover for environmental protection (rain, dirt & dust)
15. AL-KO Sway Control coupling

The following is included in addition to the trailer:

16. High end laptop windows PC, English language. The PC is installed and tested.
17. ViaFriction Recorder windows software with fixed slip mode (% slip can be adjusted in the software between 5% and 50%)
18. ViaPlot windows viewing software (for office usage)
19. User, installation and maintenance documentation
20. Three days training at customer site
21. ASTM 1551 spare tire on wheel rim
22. Spare parts kit incl. 2 belts
23. Power supply for PC from 12V and 220V
24. Remote diagnostics for online support.
25. Cable and connector to be mounted on car. This includes cables for network, charging and control.

The dry weight of the ViaFriction trailer is approx. 1100 kg.

### ***1.2 ViaTech Digital Photo System, ViaPhoto<sup>Lite</sup> including***

The photo system includes a Basler Ace industrial camera. The system takes pictures of the road. Date, GPS position and road ID is integrated into the picture. It is Geo tagged. Camera suited for mounting behind the front window in a car.

1. Camera
2. Lens
3. Software for recording pictures
4. Brackets and cables
5. GPS interface

### ***1.3 ViaTech Friction sensor options:***

1. Road surface and air temperature sensors

**The trailer solution will be tested & approved before shipment. Client is welcome to join the approval on site at ViaTech.**

**Note:**

**Viatech is the owner of the patents and products that comprises the ViaFriction. Viatech is solely responsible for the warranty of this product.**