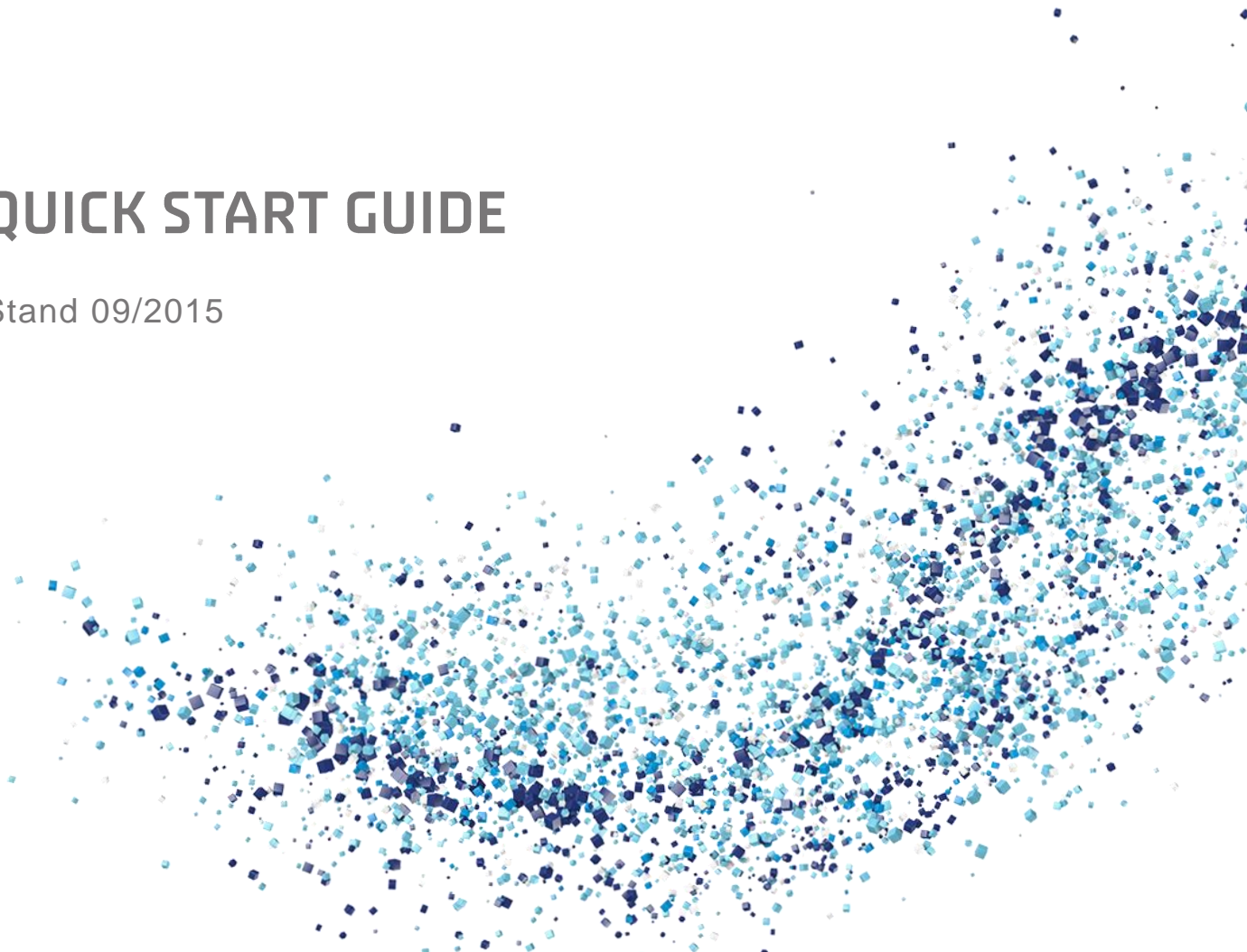


**ERGONEERS**  
FROM SCIENCE TO INNOVATION

# VEHICLE TESTING KIT

## QUICK START GUIDE

Stand 09/2015





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## 1. DELIVERY CONTENT



Figure 1 - Content

The following parts are included in your vehicle testing kit:

- Computer Case
- LCD monitor with mount
- 4 Logitech cameras with mounting parts and extension cables
- 12V Battery pack
- Logitech keyboard with touchpad
- 2 lavalier microphones with USB soundcard adapter
- Trolley
- 2 ISOFIX straps

Following equipment can be bought optional:

- GPS tracker
- Mobileye
- Dikablis Professional Cable

## 2. SETUP

### 2.1 VTK ISOFIX Fastener

The computer can be attached by using the cars build in ISOFIX restraint system. Secure the provided ISOFIX straps and fasten them with the mounted clasps onto the VTK as shown in Figure 2.



Figure 2 - Clasps

### 2.2 Cameras

The vehicle testing kit contains four HD cameras to capture the surrounding area during the test.

Every camera comes with an adjustable camera mount and a quick release plate as shown in Figure 3.

To mount the camera to the mount loosen the screw and pull back the pin. Now set the camera to its correct position and then tighten the screw again. To take the camera off again repeat these steps reversed.



Figure 3 - Mount and Plate



Figure 4 - Mounting

For perfect use of the available bandwidth, please make sure that the cameras are not plugged in in a row but as shown in Figure 5.



Figure 5 - Camera Plug-In Scheme

### 2.3 MobilEye

If purchased with the Vehicle Testing Kit, the Mobileye will provide you with realtime street data, such as speed limits and gap distances. The Mobileye will be mounted by Mobileye experts.



Figure 6 - Mobileye

### 2.4 Microphones

The kit also contains two lavalier microphones with USB soundcard adapters.



Figure 7 - USB Soundcard Adapter



Figure 8 - Lavalier microphone

One microphone should be attached to the subject and one to the supervisor.

Use the clip of the microphone to fix it on the person's collar.  
The soundcard adapters should be plugged in like in Figure 9.



Figure 9 - Soundcard

### 3. HARDWARE

#### 3.1 Computer

The computer is built into the main unit of the VTK. It has a 4<sup>th</sup> generation Intel Core i7 processor (4700EQ, 2,4GHz), 8GB RAM, a 512GB SSD and a swappable 1TB Hard Disk.

The computer offers 12 USB 3.0 and 3 USB 2.0 ports as well as 2 gigabit Ethernet and one line out port.

Make sure to power it on once the VTK is supplied with power!

#### 3.2 Monitor

The monitor provided can be mounted onto the headrest as shown in the picture below. The 21,5" TFT Display receives its power from the main units power outlet. Its maximum resolution is 1920x1080 and the settings can be changed with the 4 keys on top of the screen.



Figure 10 - Headrest Mount

### 3.3 Power supply

There are 4 different ways to power the VTK:

- Supply the main unit with a usual power cord using the plug on the side of the unit.
- You can use the provided adapter to plug the unit into your car's cigarette lighter.
- Use the built-in battery. The battery can be switched on by pushing the battery lever on the front panel. The LED indicator on top shows you the remaining charge. The battery will provide you with power for approx. two hours.
- The V-Mount Power Plate gives you the possibility to use an external battery pack of which one is already provided.

You can charge the extra battery pack by using the given charger. The internal battery will charge automatically when the unit is plugged in.

The main unit provides power for the display and has a power outlet for the Dikablis Professional Glasses.



Figure 11 - Battery Switch and LED Indicators



Figure 12 - Power Outlet

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