



## VEHICLE TESTING KIT

TECHNICAL DATA VERSION V3

### VTK MAIN UNIT (CASE)

Major Dimensions	56 cm x 42 cm x 22 cm (22,05 in x 16,54 in x 8,66 in)
Weight	14 kg (30,86 lbs) (case without monitor and batteries)
Line voltage	100-230 V ~AC
Rechargeable battery	2 Li-Ion battery (14,8V / 6,6Ah / 97,7 Wh)
Average battery runtime (2 external batteries combined)	Up to 3 hours while using D-Lab
Battery charger	External battery charger
Car battery power supply	12V via cigarette lighter connector
DC Out Monitor	12V power supply for the monitor
DC Out Dikablis	12V power supply for the Dikablis glasses
Keyboard / Touchpad	Logitech keyboard, including touchpad
Fixation	2 ISOFIX belts, belt extension (if no ISOFIX available)
Transport	Snap-In Trolley

### AUTOMOTIVE COMPUTER

Operating System	Windows 7 Pro 64 Bit
Prozessor	Intel® Core™ i7-4700EQ Processor (4th generation)
Processor clock rate	2,40 GHz (Max. Intel Turbo Boost 3.4 GHz)
Processor Count	4 / 8
RAM	8 GB DDR3L 1600 SODIMM
Hard drive	512 GB SSD
Removable hard disk	1 TB S-ATA (5.400 rpm)
Graphic card	IntelHD Graphics 4400, Intel® Quick Sync

### MONITOR

Type	TFT Display with LED backlight
Size of display	17,3 inches (43,94 cm)
White luminance	300 cd/m <sup>2</sup>
Screen resolution	1920 x 1080 px
Fixation	Attached to the head rest or to the case
LED display	Operating status / current charge state
Major dimensions	46 cm x 31 cm x 5,5 cm (18,11 in x 12,20 in x 2,17 in)
Weight	1,9 kg (4,19 lbs)

### IO ANSCHLUSS

Display / monitor	1 x DVI-I, 2 x DisplayPort
USB	10 x USB 3.0, 3 x USB 2.0
Serial (COM)	4 x RS 232, 1 x RS 485, 2 x CAN
Ethernet	2 x Gigabit Ethernet
Audio	1 x Line Out

### ENVIRONMENTAL CONDITIONS

Operating temperature	-20°C to 60°C (-4°F to 140°F)
Storage temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	max. 95% (non-condensing)
ESD (electrostatic discharge)	Contact discharge ± 4 kV, air discharge ± 8 kV

### CAMERA

Type	Business grade HD video webcam
Connection	USB 2.0
Video Coding	MJPEG, „H. 264-ready“ (Windows Driver for H. 264 is still in preparation)
Resolution	adjustable up to 1920x1080 pixel
Field of View	90° diagonal
Lens	ZEISS® glass lens
Color	black/silver
Dimensions	4,3 x 9,4 x 7,1 cm
Weight	163 g

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## SOUND ADAPTER

Type	Sound Card in USB stick format
Connection	USB 2.0
Signal-Noise-Ratio	90 dB, supports 16 Bit/48 kHz

## MICROPHONE

Type	Electret microphone
Transmission range	50 – 18000Hz
Connection	to Sound Adaptor via 3,5 mm cinch plug, 3-pole
Cable	1 m
Fixation	Clamp, e. g. attaching it at the lapel
Dimensions	19 x 9 x 9 mm
Weight	18 g

## MOBILEYE

Producer/Model	Mobileye 560
Description	Retrofittable driver assistance system with the following properties: Camera based Fixation at the front shield Cable Connection to VTK via CAN Bus
Scope of Delivery	Mobileye Camera Cable Set for integration of Mobileye into the vehicle VTK connection cable (via CAN) Startup and Installation Guide Access to the Mobileye Setup Wizard (for calibration)
Detection Range	Vehicle Detection Day: 150 m Vehicle Detection Night: 90 m Pedestrian Detection (Day Only): 40 m
Recordable Driving Performance Data and Driving Behavior Data	Vehicle Data (Velocity, Status of Break, Blinker, Wiper and Light) Traffic Warnings (Distance Warning, Lane Keeping, Speeding) Traffic Signs (Type and Position)

## SCOPE OF DELIVERY VEHICLE TESTING KIT PROFESSIONAL

VTK main unit (including automotive computer), 17,3" LCD monitor with monitor mounting, keyboard with touchpad, 4 cameras and 4 extension cables,
4 suction cup fasteners, 1 camera mount for the head rest, 2 Clip-on microphone with USB sound adapter,
2 12V batteries including a battery charger, 2 ISOFIX belts, belt extension, trolley
Data acquisition and analysis software: D-Lab Audio Professional, D-Lab Video Essential, D-Lab CAN Bus Professional

## SCOPE OF DELIVERY VEHICLE TESTING KIT ENTERPRISE

VTK main unit (including automotive computer), 17,3" LCD monitor with monitor mounting, keyboard with touchpad, 4 cameras and 4 extension cables,
4 suction cup fasteners, 1 camera mount for the head rest, 2 Clip-on microphone with USB sound adapter, 1 GPS sensor,
2 12V batteries including a battery charger, 2 ISOFIX belts, belt extension, trolley
Mobileye Sensor
Eye tracking glasses: Dikablis Professional Cable
Data acquisition and analysis software: D-Lab Audio Professional, D-Lab Video Essential, D-Lab CAN Bus Essential
D-Lab CAN Bus Professional, D-Lab Data Stream Professional, D-Lab Eye Tracking Head Mounted Professional

