



Digital ADAS 2.0

Reliable calibration of
driving assistance systems



BrainBee[®]
WORKSHOP SOLUTIONS

Excellence at the service of ADAS calibration

Thanks to the powerful Keystone system (patented), the recognition of the vehicle through license plate reading, and the fully automatic acquisition of the measurements, in a few minutes you will have completed your calibration.

Revolutionary technology for quick and easy calibration

CONNEX Digital ADAS 2.0

The ultimate technology: fully automatic camera and radar calibration.

- Keystone Technology
- Wi-Fi connection
- Targetless
- License plate visual recognition function
- Automatic data transmission laser meters (from software)
- Fully automatic vertical alignment of the monitor
- Dual clamping system
- Extended Bar

CONNEX Digital ADAS 2.0 EXTRA

Additional features designed to further expand vehicle coverage

- Includes all functionalities of Digital ADAS 2.0
- Proximity sensor enabling guided vehicle alignment with the calibration target
- 75" screen, which rotates 90° to support large vertical calibration targets
- Enhanced display lifting system, engineered to ensure precise screen positioning even when working with particularly tall vehicles

CONNEX 2 not included. License plate recognition system available only in some countries. Clamp Kits system to choose from: Rim Self-Centering Clamp Kit (12"/21") - Clamp on Rim; Tyre Self-Centering Clamp Kit (13"/24") - Clamp on Wheel.

Why choose CONNEX Digital ADAS:

- Keystone Targetless technology - this is the patented MAHLE technology, Targetless, which is the real core of the system. Thanks to the versatility of its digital panel, it allows you to adapt the screen to any reference protocol of the car manufacturers, present and future.
- Easy to use - so simple to use, that you don't waste any time learning or using it: the system guides you step by step in performing the calibration.
- Fully automatic - automatic, by means of electrical control, adjustment of the structure, as well as automatic and virtual becomes any shift of the target with respect to the vehicle positioned. The car never moves!
- Self-adaptive system - extreme precision is guaranteed by the self-adaptive system, which allows the software to assess the physical environmental conditions and adapt the image of the digital target accordingly.
- Universal Coverage - ensuring maximum market coverage is a serious challenge for us. The database that powers the operation of CONNEX Digital ADAS follows the continuous development of the CONNEX self-diagnosis.



Welcome to CONNEX 2 DS

Explore hundreds of vehicles, functions and more to start your diagnosis.

Q Search license plate, VIN, engine code...

License plate: VIN: Engine code:

SEARCH

Search vehicle mode

AUTOMATIC SEARCH
Connect the VC and select the brand

MANUAL SELECTION
Connect the VC and either select model, vehicle

Functions

ECOD
Subtille

REMOVERPID
Subtille

PASS THRU
Subtille

MAHLE

CONNEX

CONNEX Digital ADAS 2.0

Fully automatic, for calibration in the blink of an eye.

It seemed impossible, but the Digital ADAS 2.0 evolution further reduces calibration times!

Thanks to the special laser meters directly connected to the diagnosis, CONNEX Digital ADAS 2.0 is able to directly acquire all the parameters related to the alignment of the car, which are transmitted to CONNEX allowing you to immediately enter calibration.

Keystone system.

It remains the heartbeats of Digital ADAS technology made by MAHLE. Keystone is the technology that allows you to perfectly align the calibration target to the car, without having to move the car by an inch.

Thanks to the special software, it allows you to pinpoint the camera or radar viewing angle with extreme precision. The procedure and the target that is then proposed will be correctly positioned and adapted in order to carry out the calibration in the optimal way and with certainty of result.

The vertical positioning of the monitor is also managed automatically from the display of the diagnostic interface, through a simple command that allows you to reach the correct position, as per the manufacturer's specifications.

SKIP Digital ADAS.

Thanks to the plate recognition function (*), and with the help of the special camera, the instrument is able to immediately recognize the systems to be calibrated.

No indecision or waste of time: just one click!

(* Optional function, present in the markets where SKIP CONNEX is active.

3D tutorial to proceed knowing it is an assured win.

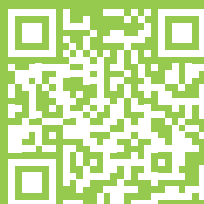
Each car manufacturer has its own specific calibration procedures, which the operator must perform to complete the adjustment.

With Digital ADAS 2.0 it is impossible to have uncertainties! From the diagnostic tool you can recall clear 3D video tutorials, which are proposed directly on the display of the Digital ADAS 2.0, and which show all the phases of the procedures.



Watch Digital ADAS 2.0
in action:

[https://mahlemktg.info/
D_ADAS2_BB_EN](https://mahlemktg.info/D_ADAS2_BB_EN)



Wireless Transmission Laser Meters

The new laser meters, which slide on the bar with magnetic strip, allow you to acquire the vehicle alignment parameters on CONNEX in a completely automatic way. No errors or wasted time: go straight to calibration!



Targetless technology

Adaptive system for automatic vehicle positioning compensation

Motorized and fully automated target height adjustment

Measurement with high-precision laser ranges

Dimensions: 3000 X 1000 X 1500 mm
Weight: 75 Kg



..... TUV Rheinland certified

..... Integrated communication with CONNEX 2 DS BUS system via WiFi

..... Ultralight Radar Calibration Panel

CONNEX

Digital ADAS 2.0 EXTRA

EXTRA fast, EXTRA simple, EXTRA ordinary: Digital ADAS 2.0 EXTRA is the new addition to the MAHLE range, designed to meet the needs of an increasingly diverse fleet. Its flexibility makes it ideal for workshops that want to grow by offering advanced and differentiated services.

EXTRA fast

Digital ADAS 2.0 EXTRA provides exceptional positioning freedom, even with full-size targets that traditionally need to be placed very close to the vehicle. Its advanced digital technology offers more space, greater convenience, and improved workflow efficiency.

Positioning sensors guide vehicle alignment and sharply reduce preparation time. The calibration professional can drive the vehicle directly toward the structure, following the instructions displayed on the monitor and on the diagnostic tool, activated by the proximity sensor, which precisely indicates the stopping point.

Keystone technology then ensures perfect target projection. This results in a significant boost in operational efficiency, further cutting calibration setup times.

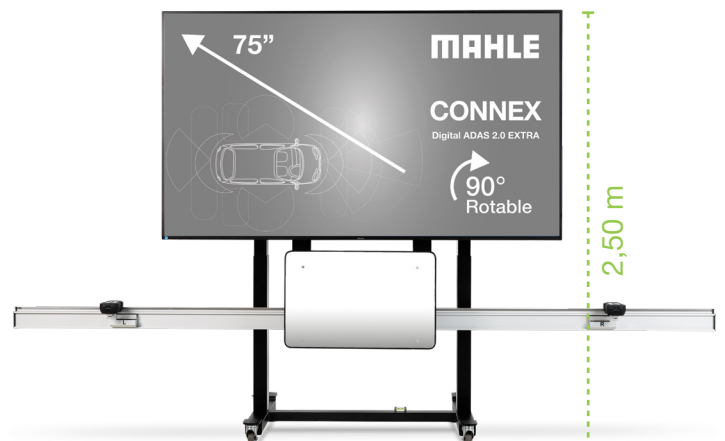
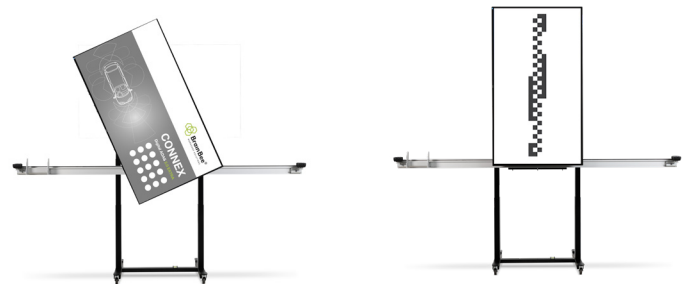
EXTRA Dimensions

The need to project full-scale targets is an essential procedure for some manufacturers and indispensable for remote calibration. The 75" high-definition display allows targets to be projected even at a 1:1 scale, providing complete coverage of technical requirements.

EXTRA Adaptability

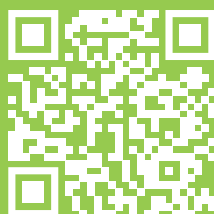
The rotating screen (90°) allows the projection of large vertical targets, which are essential for the calibration of commercial vehicles (e.g. IVECO Daily).

The structure can reach a height of up to 2.50 meters, allowing calibration even on large vehicles (SUVs, vans and commercial vehicles), making Digital ADAS 2.0 EXTRA a versatile and universal tool, suitable for all types of workshops.



Watch Digital ADAS 2.0 EXTRA
in action:

[https://mahlemktg.info/
DIGITALADAS2EXTRA_ENG](https://mahlemktg.info/DIGITALADAS2EXTRA_ENG)





Targetless technology

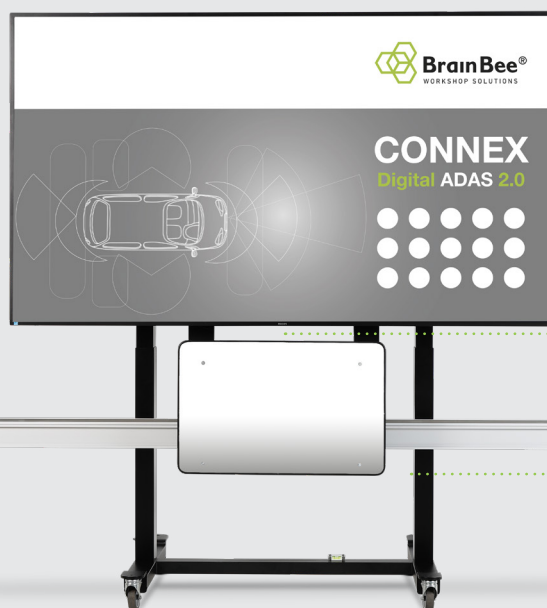
Adaptive system for automatic vehicle positioning compensation

Rotating screen

Motorized and fully automated target height adjustment

Measurement with high-precision laser ranges

Dimensions: 3000 X 1000 X 1500 mm
Weight: 118 Kg



..... TUV Rheinland certified

..... Integrated communication with CONNEX 2 DS BUS system via WiFi

..... 75" High definition display

..... Proximity Sensor

..... Ultralight Radar Calibration Panel

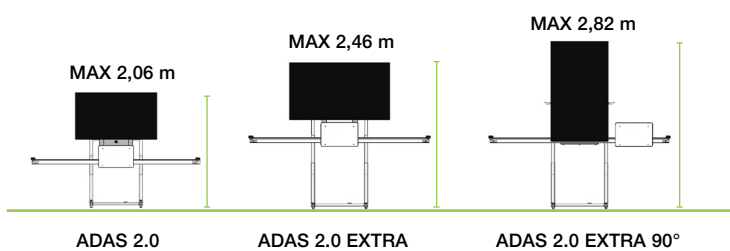
..... 3-Step adjustment system (-2°; 0°; +2°)

Rear: organized storage for clamps, diagnostic tools, and the radar target when not in use.



Technical Data

Features and Technical data	CONNEX Digital ADAS 2.0	CONNEX Digital ADAS 2.0 EXTRA
Keystone Targetless technology (patented)	■	■
Communication: Integrated, with CONNEX 2 DS BUS system via WiFi	■	■
Monitor lifting system: electric and automatic, controlled via CONNEX device	■	Enhanced, with a lifting height of up to 2.50 m
Guided process for precise vehicle positioning	-	Enabled by an advanced positioning sensor
Laser meter with wireless transmission	■	■
3D Tutorials	■	■
Ultralight radar calibration panel	■	3-step adjustment system
SKIP - Plate recognition	Optional (when available for the market)	Optional (when available for the market)
RemotePRO Keystone Powered	■	■
Monitor	65" full HD	75" full HD - rotatable
Measuring Bar	3 m	3 m



Height Comparison

CONNEX Digital ADAS 2.0, with its 2.00 m maximum height, is ideal for workshops focused on passenger-car calibration.

CONNEX Digital ADAS 2.0 EXTRA extends vertical reach up to 2.50 m, making it the preferred choice for calibrating light commercial vehicles.





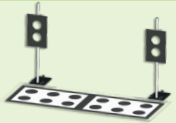


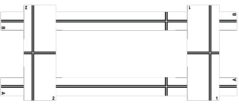



RemotePRO Keystone powered

Digital ADAS harnesses the power and flexibility of remote assistance and offers you new possibilities today!



By synergistically coupling your Digital ADAS system with MAHLE RemotePRO, you can now perform static ADAS CAMERA FRONT calibration on an ever-growing fleet of vehicles (HYUNDAI TUCSON, KIA CEED or VOLVO V60, among others).

Accessories




Accessories - Calibration			
Code	Item	Description	
1010601666XX	DIGITAL ADAS EASY PLACING KIT	Accessory positioning kit: <ul style="list-style-type: none"> ■ cod 1010601608XX ■ cod 1010601609XX ■ cod 1010601610XX ■ cod 1010601612XX ■ cod 1010601614XX ■ cod 1010601662XX ■ cod 1010601663XX ■ cod 1010601733XX 	
1010601608XX	FRONTAL RADAR + BLIND SPOT CONE (TOYOTA - SUBARU - HONDA - KIA - HYUNDAI - MAZDA)	Reflector panel for front radar and blind spot (TOYOTA/SUBARU/HONDA/KIA/HYUNDAI/MAZDA) (*)	
1010601609XX	NIGHT VISION CALIBRATOR (MERCEDES)	Reflector panel for night vision camera (MERCEDES) (*)	
1010601610XX	KIT CARPET (2) CAMERA 360° (VAG)	360° camera calibration mats (VAG) (*)	
1010601612XX	PANEL FOR REAR AND CAMERA 360° (VAG)	Panel for rear and 360° camera (VAG) (*)	
1010601614XX	PANEL FOR REAR CAMERA (MERCEDES) KIT 2	Rear camera panel (MERCEDES - kit 2) (*)	
1010601662XX	KIT MAT (2) CAMERA 360° (Mitsubishi)	Mat kit (2) camera 360° (MITSUBISHI) (*)	
1010601663XX	KIT MAT (4) CAMERA 360° (NISSAN)	Mat kit (4) camera 360° (NISSAN) (*)	
1010601667XX	LIDAR CALIBRATION PANEL	LIDAR calibration panel (VAG)	

(*) to be combined with Digital ADAS EASY PLACING KIT 1010601666XX



Accessories - Calibration

Code	Item	Description	
1010601733XX	BLIND SPOT CALIBRATOR - DOPPLER SIMULATOR (VAG-MAZDA-PORSCHE)	Doppler simulator for blind spot – includes metric rule for positioning (VAG-MAZDA-PORSCHE) (*)	
1010601734XX	NIGHT VISION CALIBRATOR (VAG)	Reflector panel for night vision camera (VAG)	

Accessories - Dime

Code	Item	Description	
1010601615XX	KIT FRONT RADAR MERCEDES >2011	MERCEDES front radar kit > 2011	
1010601616XX	KIT FRONT CAMERA/ RADAR (VOLVO)	VOLVO front radar kit	
1010601708XX	UNIVERSAL RADAR KIT JEEP	Calibration accessory (front and rear) JEEP radar	

Accessories - Clamps

Code	Item	Description	
1010601656XX	RIM SELF-CENTERING CLAMP KIT 12" - 21"	Clamp on rim kit 12" - 21"	
1010601697XX	TYRE SELF-CENTERING CLAMP KIT 13" - 24"	Self-centering clamps kit 13" - 24" Compatibility: up to 24" (standard tyre)	

Member



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