



# x-light

## The flexible and modular headlamp setting system

Operator independent headlamp setting systems using image processing ensure highly accurate and reproducible test and setting results. These adjustment systems have become the standard of test and adjustment technology in vehicle production.

Dürr develops and markets headlamp leveling systems under the name "x-light" tailored to the high demands in the end of line area of automotive plants.

The measuring system is equipped with the standard measuring algorithms for the adjustment of low beam, high beam and fog light according to ECE and SAE. It can be extended at any time with product and customer specific measuring procedures.

### BENEFITS



High adaptability

Operator independent setting and automated documentation of the setting values required by law

Extensive self-diagnosis options and error detection

Process safe setting Smart Ergo Drive

Consideration of the chassis and car body parameters determined in the wheel alignment stand

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## The flexible and modular headlamp setting system

### CAMERA TECHNOLOGY, GROUND GLASS, FRESNEL LENS

- GigE camera technology with automated exposure control
- Storage of headlamp setting sequences for "off-line" analysis
- Progressive scan camera
- Nanoparticle coated projection surface in the light collection box for optimized analysis
- Fresnel light collecting lens, special design for headlamp adjustment systems



Headlamp adjustment x-light with setting tool Smart Ergo Drive

### SETTING TOOLS

The new generation of setting tools Smart Ergo Drive sets new standards in terms of ergonomics and weight.

The optionally available semi-automatic tools were developed by Dürr specifically for headlamp and sensor adjustment according to torque and speed characteristics.

In addition to a rubberized grip area for perfect handling and LED lighting to illuminate the bolting point, the tool is equipped with an angle of rotation encoder, with the help of which high-precision settings can be made on request with preset

### OPTIONAL FEATURES

- Implementation of camera technology for Near Infrared (NIR)
- Integration of power LED module for radar settings with auxiliary mirror

angle of rotation.

As a unique feature on the market, a built-in sensor system can be used to check whether forces are applied to the alignment bolt during the adjustment process.

In this way, the quality of the setting can be reliably guaranteed.

The headlamps are automatically adjusted to the nominal value by means of a decentralized control unit after the tools have been mounted.

### TECHNICAL DATA

x-light	
Measurement accuracy	< 0,1 % (3,43') Constraint: the point of emergence of the headlamp is in front of the centre of the lens
Smart Ergo Drive	
Lighting	LED
Push-Down sensor	Process-safe storage of setting values
Position feedback	Digital encoder
Weight	590 g, without bits
Length	270 mm, without bits
Housing	Glass fibre reinforced plastic housing with rubberised grip area