



x-light s

The smart aiming system for headlamps

Operator independent headlamp aiming by image processing is part of today's standard testing and setting technology in vehicle production.

x-light s is a low-cost headlamp setting device that, on the one hand, has the same image processing performance with Dürr's experience as at the end of line in the automotive plant and, on the other hand, is free from the usual level of automation.

The optimum cost/performance ratio of x-light s is particularly suitable for increasing the setting quality of headlamps in: CKD plants, the production of trucks, busses and tractors, the audit and rework sectors of vehicle production and it is suited to fulfil the responsibility for documentation.

CUSTOMER BENEFITS



Camera technology, test and measurement algorithms are identical to x-light

Online measurement of the pictures

Calculation of drive axis geometry values for headlamp adjustment

Low maintenance and easy to service product design

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FLEXIBILITY

The high flexibility starts with the set-up and the installation of x-light s. The installation site must only be equipped with a 230 V socket. Thus, a later relocation of the system is only a matter of a few hours. A comfortable and non-clamping height adjustment and a balancing weight integrated in the Z column ensure the ergonomic operation of the light collecting box of the x-light s.

A long vertical transfer distance (250mm-950mm) allows the measurement and the setting of foglamps, main headlamps and high-beam headlamps with a large type mix of vehicles.

When the system is used in combination with a Dürr wheel alignment stand the high Dürr standard is also applied.

In this case, vehicle information and setting release are sent to the headlamp aiming system via a defined interface.

After calibration on the master gauge of the wheel alignment stand by means of a laser pointer, the rear axle correction angle which has been detected by the wheel aligner can be taken into account for the measuring values of the x-light s.

QUALITY

Dürr has assigned the qualities of the camera-based measurement technology to x-light s, a technology well-proven over many years. For that purpose, different, proven measuring algorithms are available which take an online measurement of the main headlights, the fog lamps and the high-beam headlamps according to the legal regulations.

As an option, algorithms to check the light intensity of headlamps are available.



Operator's monitor x-light s

TECHNICAL DATA

Light collecting box	Transfer distance (middle of lens):	250 mm to 950 mm
	Recommended distance headlamp to light collecting box:	300 mm to 700 mm
	Optimized nano coated projection plate	
Measuring accuracy	< 0,1% (3,43')	Boundary condition: light emerging point at the headlamp is positioned in front of the centre of the lens
Lens	Lens type:	Fresnel lens (optimized for headlamp light)
	Focus:	f = 500 mm
Guide column and light collecting box	HxLxW:	2200 mm x 850 mm x 790 mm
Dimensions of computer station	LxWxH:	640 mm x 610 mm x 1700 mm
Camera	GigE camery system with automated exposure control, camera with progressive-scan process	