

x-light s

THE SMART AIMING SYSTEM FOR HEADLAMPS



» The aiming system x-light s

Experience

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

The low-cost Dürr headlamp aiming system x-light s has been developed to satisfy the demand of a cost-saving and standard system which on one hand has the same image processing performance with Dürr experience as usual in

the vehicle plant's end-of-line area and which on the other hand is independent of the usual degree 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, buses and tractors, the audit and rework sectors of vehicle production and it is suited to fulfil the responsibility for documentation.

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 measure the motorway light and to check the light intensity of headlamps are available.

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.



Technical data x-light s

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: WxHxD:	f = 500 mm 367 mm x 247 mm x 1.9 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 camera system with automated exposure control, Camera with progressive-scan process	

* The photos or figures of the assembly and testing systems in the flyer are not showing the complete installation. The requirements of the machinery directive (2006/42/EG) will only be met by other supplementary scope of supply or - on delivery of uncompleted machines - those requirements must be fulfilled by the manufacturer of the (complete) machine. Flyer x-light s, Version E

