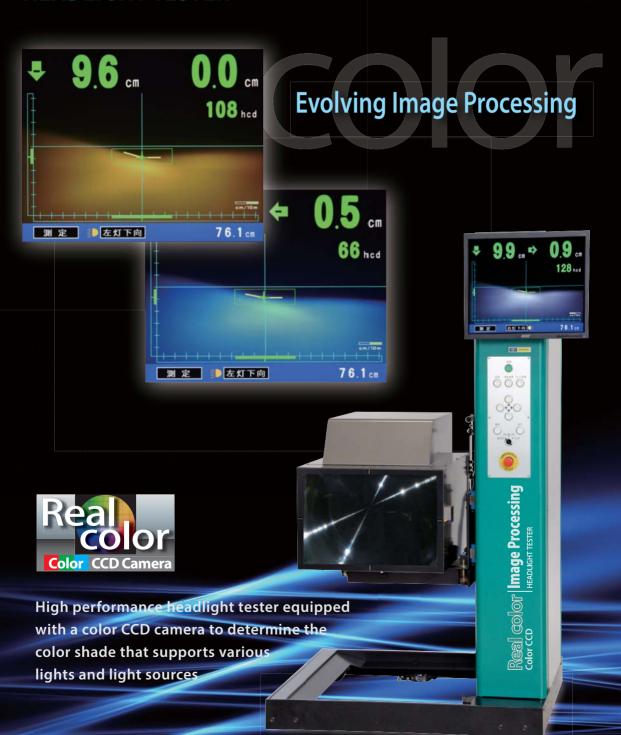


Tester for Low Beam

Color Image Processing Fully Automatic Headlight Tester

Real color Image Processing HEADLIGHT TESTER

MODEL HLI-2015





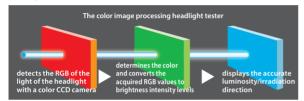
Color Analysis Close to That of Human Eves Has Been Achieved

[Color Image Processing Headlight Tester]

Can perform analysis close to that of human eyes by taking advantage of the characteristics of a color camera to determine the color shade of the light from the balance of the RGB values. It can accurately determine the light distribution form and color shade of light sources ranging from the red light source of a halogen lamp to the blue light sources of HID and LED lights. It can also reliably support new light sources.

Evolving Image Processing Method

The color image processing method supports lights that are becoming more diverse. It enables accurate measurement. Conventional image processing headlight testers have performed measurement by capturing the light of the headlight with a monochrome CCD camera. The color image processing headlight tester recognizes the accurate light distribution of the light from the image captured with a color CCD camera in order to support new light sources and their light distributions which are becoming more diverse. It strongly supports the measurement and adjustment work of customers.



Using Latest Technology RGB Color Method

It can perform analysis close to that of human eyes by taking advantage of the characteristics of a color camera to determine the color shade from the RGB values*. It can accurately measure light sources ranging from the red light source of a halogen lamp to the blue (white) light sources of HID and LED lights.





Red light source (halogen lamp)

Blue (white) light sources (HID/LED)

Reliable Support for All Headlights!

Reliable support for light distribution patterns such as those of a Z-beam and various new light sources such as HID and LED increases the work range.



Proposal Service Realized

The image of the light distribution pattern of various lights is processed and the irradiation direction and luminosity are displayed instantly. Proposal service that can persuade customers can be realized.





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Chromaticity Display Function to Allow You to Easily Determine the Color Shade of Light Added

The function can display the CIE chromaticity diagram and JIS chromaticity range table.

The color shade of the light can be used as a criterion, which also can be used to explain to your customer.





(CIE chromaticity diagram)

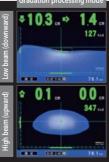
Variety of Measurement Modes



6 Mode display

8 Light mounting height

A variety of measurement modes are available to meet various measurement requirements. The measurement modes support all lights and display the measurement results in an easy-to-view and easy-to-understand manner. The modes can be switched with operation buttons.







used when the target fluctuates in the low-beam light measurement mode. This adjustment function is

8.8...

127 ..

headlight image captured with the

Speed Stress-free Quick Measurement

Quicker and More Accurately

Instant Alignment and Measurement

The previous tester detected the light center from the brightest part of the light to align with it.

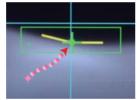
This tester instantly determines the representative light form (multi-reflector projector) by subdividing the measurement logic. It detects the light center from the form to increase the alignment speed. The work efficiency has been substantially increased.



Since the center of the light source of the headlight is determined accurately, the light receiver does not move even if the irradiation direction changes during adjustment work. The adjustment work can be performed smoothly without any unnecessary movement.

Arbitrary Adjustment

The adjustment work is completed by just moving the target (cross mark) within the square pass range frame. The work can be performed easily without relying on intuition or a number. Once the target enters the square pass range frame, a double-size image is automatically displayed to facilitate the adjustment work.



Just Move the Target within the Pass Range Frame

Easy-to-read Measurement Results Screen

Measurement results can be checked all at once on the measurement results screen. Measurement data can be stored by pressing an operation button so work efficiency is substantially improved.

測定結果	右灯	左灯 76.1	
高さ	76.1		
17	0.0	0.0	
上向 左右	0.0	0.0	
光度	0	0	
±F	F 10.3	F 8.3	
下向 卷卷	左 1.1	左 5.4	
光度	118	144	

Low-beam light/high-beam light measurement results screen

高さ	76.1	76.1
上 銀灯 左	F 19.9	₮ 21.6
*		27

Fog light measurement results screen

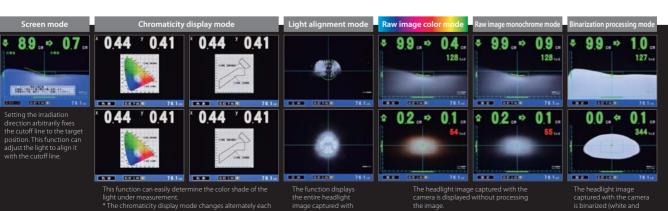


Useful Functions

■ Adjust Mode

The target can be moved to any position for a special light for which the elbow point is hard to acquire. When the position is determined, the optical axis can be adjusted as the target follows during light adjustment.

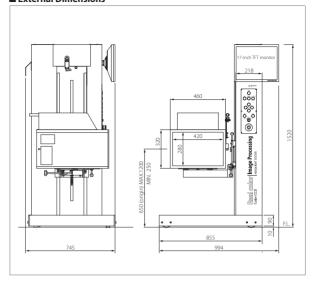
■ Screen Mode
Adjustment to an arbitrary
position can be performed by
placing the virtual cutline
(adjustment target) and aligning
the light image with it.



■ Specifications

Model				HLI-2015		
MLIT registered model				HLI-2015		
Model test number				JASEA-H-39		
Measurement method				Automatic/light condensation		
Measurement distance (m)			(m)	1		
Light mounting height measurement range (cm)			(cm)	25~120		
	Luminosity	High-beam light	(hcd)	0~1,200		
d)		Low-beam light	(hcd)	0~1,200		
Measurement range		Fog light	(hcd)	0~1,200		
	High-beam light/low-beam light			20		
	High Left — Right Low		(cm/10m)	35———35 35		
	Fog light			High 10.0 to 0 to low 35.0		
Display	Luminosity/irradiation direction			LCD digital		
Disp	Light distribution/alignment			Image/optical		
Power supply (v)		(v)	AC100 (5A 50/60Hz)			
Tester dimensions (mm)		(mm)	W994×D745×H1,520			
Tester weight (kg)		(kg)	Approx. 170			
Standard accessories				Auxiliary light cover x1, light receiver cover x1, convex rule x1		
Rail dimensions (mm)			(mm)	W600×L4,500/5,500		

■ External Dimensions



Forward and Backward Moving Device

(Specially manufactured device)

- The tester automatically detects the distance to the headlight of the vehicle and this device can move the tester forward or backward to the measurement
- distance (1 m).

 Since the measurement can be taken without moving
- the vehicle, the work efficiency can be improved.

 The vehicle inspection line space also can be saved by using this device in conjunction with the 4WD-BS tester.

* For details, please contact one of our sales office

Vehicle Alignment Laser Pointer

CD: 01210152

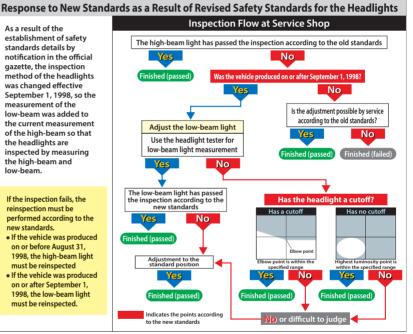
Protection Fence

CD: 01210615

As a result of the establishment of safety standards details by notification in the official gazette, the inspection method of the headlights was changed effective September 1, 1998, so the measurement of the low-beam was added to the current measurement of the high-beam so that the headlights are inspected by measuring the high-beam and low-beam.

If the inspection fails, the reinspection must be performed according to the new standards. If the vehicle was produced

- on or before August 31, 1998, the high-beam light must be reinspected • If the vehicle was produced
- on or after September 1. 1998, the low-beam light must be reinspected.



Before using this product, carefully read the precautions indicated by ANGER WARNING, and CAUTION in the manual supplied with this product to ensure correct use.



4-16-25 Shibaura, Minato-ku, Tokyo 108-0023 Phone: +81 3-5441-3412 Fax: +81 3-5441-8848 安全自動車株式會社 ANZEN website: http://www.anzen.co.jp