

## Description

The VisiCon Light Collecting Box (LCB) is mainly used for adjustment and testing of headlights. Its design combines highest flexibility with precise measurement technology and it is adaptable to a wide variety of mechanical and photometric applications with standard components. For your very special applications, we offer custom solutions that contain in-house-developed, perfectly balanced measurement technology.



LCB for the measurement of headlights with cornering light/turning indicator

### Benefits for our customers

- The modular design enables perfectly fitting and upgradable LCBs.
- Additional accessories such as ACC adjustment and coat recognition are available.
- The LCB is easily integrated into headlamp and headlamp module production systems.

## Function

The Light Collecting Box measures light that enters via a specially adapted Fresnel lens, that is protected by a safety glass. The light is displayed on a projection screen that is placed in the focal plane of the lens. From there it is captured with one or more VisiCon cameras. Our well proven software reliably

carries out the parameterized checks (e. g. position of cut-off line and kink point, intensity distribution, ...). Parameter sets can be stored and adapted for every headlight type. With the results, the headlight can be evaluated or adjusted semi-automatically. For audit purposes, an evaluation with the human eye is possible, by means of an integrated scaled projection screen.

## Variants

We offer various LCB types, some of which are customizable with additional color measurement systems, various camera equipment and filters, to meet your exact measurement task. Other variants can be equipped with accessories to comfortably adjust driver assistance systems (e. g. ACC, NiVi).



LCB with ACC adjustment tools

Upon request, we will provide an offer tailored to your specific application. If a solution with standard components is difficult to implement, our offer will include new designs.

## Order numbers

	Order number
LCB standard	B272498
LCB turning light	B272493
LCB cornering light	B272468

## Technical Data

Because of the flexible design and equipment, the technical data are specific for each Light Collecting Box application. In the following, the data for the best-selling LCB versions are listed.

	LCB standard	LCB turn indicator	LCB cornering light
Size (L x W x H)	682 x 400 x 353 cm <sup>3</sup>	813 x 650 x 363 cm <sup>3</sup>	813 x 650 x 363 cm <sup>3</sup>
Weight	12 kg	20 kg	20 kg
HS code	90319000		
Horizontal angle measurement area	±17,1°	Back panel: ±22,7° Side panel: 22,7° .. 60°	±22,7°
Vertical angle measurement area	±10,2°	±8,5°	±8,5°
Fresnel lens (aperture)	329 x 189 mm <sup>2</sup>	580 x 198 mm <sup>2</sup>	580 x 198 mm <sup>2</sup>
Measurement panel	375 x 220 mm <sup>2</sup>	640 x 230 mm <sup>2</sup>	640 x 230 mm <sup>2</sup>
Characteristics	Mounting frame made of aluminum extruded profile 40 x 40 mm <sup>2</sup> Inspection windows made of safety glass (front and top)		

## Accessories

Image	Name and information	Order number
	VisiCon DigiCam DC V 4.2 b/w VisiCon cameras can only be operated with the VisiCon check and adjustment software.	B251557
	Lens, e. g. 25 mm	950003, others on request
	V-Lambda filter	B251124, others on request
	VisiLink GigE Converter Adapter for up to 4 VisiCon digital cameras.	B251563
	Camera mount, e. g. ball joint	961765, others on request
	Check and adjustment software The check and adjustment software can only be operated with the VisiCon cameras.	B293031
	Adjustment tool	B280045 (black) B280043 (silver) B280064 (gold)
	VisiCal calibration device	B272111