

CA-L HIGH-RESOLUTION LENS SERIES

Product Data Sheet

CA-LH8

Low-distortion machine vision lens

FUNCTION	FAMILY	ORIGIN	WEIGHT
Low-distortion machine vision lens	CA-L high-resolution lens series	Japan	0.09 kg

KEYENCE CA-LH8 is a Low-distortion machine vision lens for the CA-L high-resolution lens series. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Focal Length	8 mm
Aperture Range	F1.4 to F16
Minimum Working Distance	0.1 m
Lens Mount	C-mount
Filter Thread	27.0 mm P0.5
Compatible Sensor Size	Up to 2/3 inch
TV Distortion at 2/3 Inch	-0.6%
TV Distortion at 1/3 Inch	-0.28%
Center Resolving Power	100 cycles per mm
Peripheral Resolving Power	80 cycles per mm

ADDITIONAL PRODUCT DATA

Operating Temperature	0 to +50 °C
Maximum Relative Humidity	80% RH, noncondensing
Maximum Barrel Diameter	34 mm
Front Filter Diameter	28.5 mm
Extension Adjustment	0 to 1.2 mm

OFFICIAL APPLICATIONS

- Capture broad machine-vision scenes: Use the 8 mm focal length with a compatible camera to inspect multiple parts or a larger conveyor area from a practical working distance.
- Limit geometric error near image edges: Apply the low-distortion optical design where measurements, edge location or shape comparison depend on consistent geometry across the sensor.
- Locate parts for alignment and handling: Combine the 2/3-inch compatible lens with calibrated lighting and focus for repeatable position, orientation and pick-point detection.

SYSTEM COMPATIBILITY

Match CA-LH8 to the installed CA-L high-resolution lens series, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

KEYENCE CA-LH8 official specifications and dimensional drawing

<https://www.keyence.com/products/vision/vision-sys/ca-l/models/ca-lh8/>

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM