

LCPI50S - April 6, 2015

Item # LCPI50S was discontinued on April 6, 2015. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

CAGE SYSTEM IRIS DIAPHRAGMS

- ▶ 30 mm or 60 mm Cage System Compatible Irises
- ▶ Continuously Variable Lever-Actuated Aperture
- ▶ Button Head Lever Allows Actuation while Iris is Installed



Application Idea

CP20S Iris in a Cage System with a KCB1C Right-Angle Kinematic Mount and a CP02 Cage Plate Holding an SM1L10 Lens Tube



CP20S
For 30 mm
Cage Systems



LCPI50S
For 60 mm Cage
Systems

[Hide Overview](#)

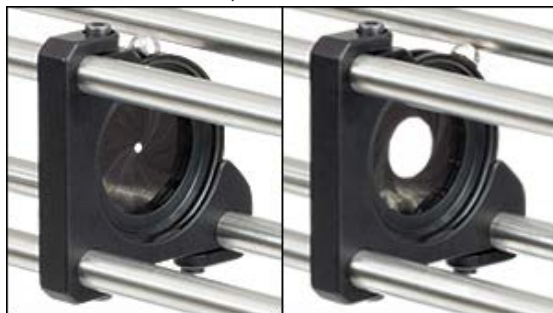
OVERVIEW & NBSP ;

Features

- One-Piece Iris
- Continuously Variable Iris Diaphragms
 - CP20S: Ø0.8 mm to Ø20.0 mm Aperture
 - LCPI50S: Ø2.0 mm to Ø50.0 mm Aperture
- Ultra-Thin Cage Plate Design

- CP20S: 0.25" (6.3 mm) Thick
- LCPI50S: 0.33" (8.3 mm) Thick

- Black-Anodized Aluminum Housing Limits Reflection



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The cage system irises are actuated using a button head lever, which is accessible within the cage system. Here, the CP20S is shown with its iris in two positions.

Item #	Cage System Standard	Aperture	Thickness
CP20S	30 mm	Ø0.8 mm to Ø20.0 mm	0.25" (6.3 mm)
LCPI50S	60 mm	Ø2.0 mm to Ø50.0 mm	0.33" (8.3 mm)

Iris Selection Guide
Post-Mounted Irises
Unmounted Irises
SM-Threaded Lever-Actuated Irises
SM-Threaded Ring-Actuated Irises
Cage System Irises

These lever-actuated, continuously variable, cage-system-compatible iris diaphragms are designed to provide smooth operation over many thousands of cycles. These irises are mounted in ultra-thin, cage-system-compatible plates that engage three cage rods with a flexure mechanism that tightens using a 5/64" (2 mm) hex. The steel leaves that comprise the iris are actuated by a button head lever that clears the fourth cage rod, as shown in the picture to the right, allowing for operation within a cage system. These large-aperture irises provide the maximum aperture available for use within a cage system and are permanently installed in the cage plates.

In addition to the cage system irises sold on this page, our SM-Threaded Ring-Actuated Irises can also be utilized in a cage system with the use of an SM-threaded cage plate. However, the cage system irises featured on this page offer larger apertures and thinner profiles than the ring-actuated irises. For non-cage system use, we also offer Post-Mounted Irises, SM-Threaded Lever-Actuated Irises, and Unmounted Irises with no mounting holes. Please see the selection guide above for a link to the full web presentations for these other options.

[Hide Part Numbers](#)

Part Number	Description	Price	Availability
CP20S	NEW! Customer Inspired!30 mm Cage System Iris, Ø20.0 mm Maximum Aperture	\$85.00	Lead Time
LCPI50S	NEW! Customer Inspired!60 mm Cage System Iris, Ø50.0 mm Maximum Aperture	\$186.00	3-5 Days

Visit the *Cage System Iris Diaphragms* page for pricing and availability information:

http://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=8376