

## CONNECTING PLATES FOR BEAM COMBINERS

Connecting Plate 1 |

**ACC-BC25-CP-01**



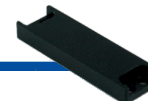
Connecting Plate 2 |

**ACC-BC25-CP-02**



Connecting Plate 3 |

**ACC-BC25-CP-03**



## PUSH-PULL ADJUSTABLE MOUNT FOR BEAM COMBINERS

Push-Pull Adjustable Mount |

**ACC-LCS-BC25-PPM**

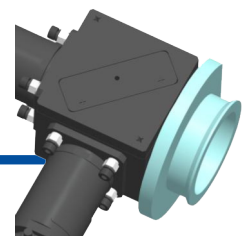


## MICROSCOPE ADAPTERS

### MODELS

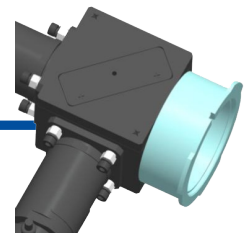
Adapter for Leica DMI microscope |

**ACC-BC25-LC1**



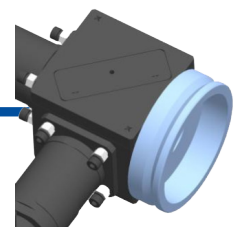
Adapter for Nikon Eclipse microscope |

**ACC-BC25-NK1**



Adapters for Olympus IX & BX microscopes |

**ACC-BC25-OL1 | Adapter to connect LCS-BC25**



Distributor



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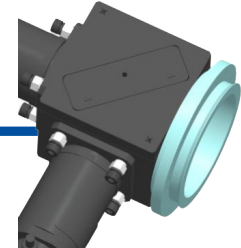
Adapter for Olympus MLS products |

**ACC-BC25-OL2**



Adapter for Zeiss Axioskop microscope |

**ACC-BC25-NK1**



Adapter for transmission port of Nikon Eclipse & Nikon LV-UEPI/2/A illuminators |

**ACC-BC25-NK-LV-UEPI**



## COLLIMATED LED FOCUSING MODULES

| Part Number             | Description  |
|-------------------------|--|
| <b>ACC-LCS-F-11</b>     | Focusing Module for 11mm-clear-aperture LED Collimator Sources, Working Distance ~5mm.   |
| <b>ACC-LCS-F-22</b>     | Focusing Module for 22mm-clear-aperture LED Collimator Sources, Working Distance ~10mm.  |
| <b>ACC-LCS-F-22-50</b>  | Focusing Module for 22mm-clear-aperture LED Collimator Sources, Working Distance ~50mm.  |
| <b>ACC-LCS-F-22-100</b> | Focusing Module for 22mm-clear-aperture LED Collimator Sources, Working Distance ~100mm. |
| <b>ACC-LCS-F-38</b>     | Focusing Module for 38mm-clear-aperture LED Collimator Sources, Working Distance ~20mm.  |
| <b>ACC-LCS-F-48</b>     | Focusing Module for 48mm-clear-aperture LED Collimator Sources, Working Distance ~30mm.  |

## INTERCHANGEABLE COLLIMATING LENSES

| Part Number           | Description   |
|-----------------------|---|
| <b>ACC-LCS-C-11</b>   | Additional interchangeable collimating lens with barrel, clear aperture 11mm.                           |
| <b>ACC-LCS-C-11-B</b> | Additional interchangeable collimating lens with barrel, clear aperture 11mm, for type-B light sources. |
| <b>ACC-LCS-C-22</b>   | Additional interchangeable collimating lens with barrel, clear aperture 22mm.                           |
| <b>ACC-LCS-C-22-B</b> | Additional interchangeable collimating lens with barrel, clear aperture 22mm, for type-B light sources. |
| <b>ACC-LCS-C-38</b>   | Additional interchangeable collimating lens with barrel, clear aperture 38mm.                           |
| <b>ACC-LCS-C-38-B</b> | Additional interchangeable collimating lens with barrel, clear aperture 38mm, for type-B light sources. |
| <b>ACC-LCS-C-48</b>   | Additional interchangeable collimating lens with barrel, clear aperture 48mm.                           |
| <b>ACC-LCS-C-48-B</b> | Additional interchangeable collimating lens with barrel, clear aperture 48mm, for type-B light sources. |

## EMPTY FILTER/OPTICS HOLDER FOR LCS SOURCES

| Part Number         | Description  |
|---------------------|--|
| <b>ACC-LCS-H-22</b> | Empty filter/optics holder for 22mm-clear-aperture LED Collimator Sources, accepts 1" and 25mm-diameter filters or optics with thickness of 5mm or less. |

## COLLIMATED LED CONNECTOR TUBES

| Part Number           | Description   |
|-----------------------|---|
| <b>ACC-LCS-CMM</b>    | Male to Male C-Mount connector with inner threads.              |
| <b>ACC-LCS-CFF</b>    | Female to Female C-Mount connector with outer threads.          |
| <b>ACC-LCS-22-T15</b> | 15mm extension tube for 22-mm clear-aperture LCS light sources. |

## LIGHTGUIDE COLLIMATORS

### Key Features

Lightguide collimators are used to either couple light from free space into a lightguide or collimate light from a lightguide to form a collimated (parallel) optical beam. Lightguide collimators are key components with numerous applications. For example, a lightguide collimator can project light from a lightguide into a uniform spot in free space.

**Aspherical lens**  
**Adjustable focus with locking ring**  
**Accepts various ferrule diameters**

High-numerical-aperture aspherical lenses are used for precise collimation and maximum light throughput. The collimator features adjustable focus from 100mm to infinity. Various lightguide ferrule diameters are supported. Customization is available for other ferrule diameters.

The full field of view (FOV) or full divergence angle can be calculated as  $FOV = 2 \arctan(D/2f)$ , where  $D$  is the lightguide core diameter and  $f$  is the focal length of the lens. Alternatively, the linear field of view on an object placed at a distance  $L$  away from the collimator is  $D(L/f)$ .

## MODELS

### Lightguide Collimators |

**LGC-019-022-05-V**  
**LGC-019-022-07-V**  
**LGC-019-022-11-V**  
**LGC-019-022-1Q-V**



## PERFORMANCE SPECIFICATIONS

| Part Number      | Focal Length  <br>mm | Clear Aperture  <br>mm | F# / NA    | Lens<br>Material | Wavelength Range  <br>nm | Lightguide Ferrule,<br>OD1 |
|------------------|----------------------|------------------------|------------|------------------|--------------------------|----------------------------|
| LGC-019-022-05-V | 19                   | 22                     | 0.86 / 0.5 | B270             | 350 ~ 2,000              | 5mm                        |
| LGC-019-022-07-V | 19                   | 22                     | 0.86 / 0.5 | B270             | 350 ~ 2,000              | 7mm                        |
| LGC-019-022-11-V | 19                   | 22                     | 0.86 / 0.5 | B270             | 350 ~ 2,000              | 11mm                       |
| LGC-019-022-1Q-V | 19                   | 22                     | 0.86 / 0.5 | B270             | 350 ~ 2,000              | 6.35mm                     |

## LIGHTGUIDE-COUPLED LED ACCESSORIES

| Part Number          | Description  |
|----------------------|--|
| <b>ACC-GCS-A0510</b> | Adapter for a lightguide with ferrule diameter of 5mm and ferrule length of 10mm or greater.                     |
| <b>ACC-GCS-A0610</b> | Adapter for a lightguide with ferrule diameter of 6mm and ferrule length of 10mm or greater.                     |
| <b>ACC-GCS-A0710</b> | Adapter for a lightguide with ferrule diameter of 7mm and ferrule length of 10mm or greater.                     |
| <b>ACC-GCS-A0810</b> | Adapter for a lightguide with ferrule diameter of 8mm and ferrule length of 10mm or greater.                     |
| <b>ACC-GCS-A0515</b> | Adapter for lightguide with ferrule diameter of 5mm and ferrule length of 15mm or greater, for Type-B GCS only.  |
| <b>ACC-GCS-A0715</b> | Adapter for lightguide with ferrule diameter of 7mm and ferrule length of 15mm or greater, for Type-B GCS only.  |
| <b>ACC-GCS-A0815</b> | Adapter for lightguide with ferrule diameter of 8mm and ferrule length of 15mm or greater, for Type-B GCS only.  |
| <b>ACC-GCS-A1015</b> | Adapter for lightguide with ferrule diameter of 10mm and ferrule length of 15mm or greater, for Type-B GCS only. |

## LIQUID LIGHTGUIDES

| Part Number                 | Description   |
|-----------------------------|---|
| <b>LLG-03-59-300-0650-1</b> | Liquid lightguide, 3mm core, 0.59NA, 300 - 650nm, 1 meter. (Ferrule diameter: 5mm)    |
| <b>LLG-03-59-300-0650-2</b> | Liquid lightguide, 3mm core, 0.59NA, 300 - 650nm, 2 meters. (Ferrule diameter: 5mm)   |
| <b>LLG-03-59-340-0800-1</b> | Liquid lightguide, 3mm core, 0.59NA, 340 - 800nm, 1 meter. (Ferrule diameter: 5mm)    |
| <b>LLG-03-59-340-0800-2</b> | Liquid lightguide, 3mm core, 0.59NA, 340 - 800nm, 2 meters. (Ferrule diameter: 5mm)   |
| <b>LLG-03-59-420-2000-1</b> | Liquid lightguide, 3mm core, 0.59NA, 420 - 2,000nm, 1 meter. (Ferrule diameter: 5mm)  |
| <b>LLG-03-59-420-2000-2</b> | Liquid lightguide, 3mm core, 0.59NA, 420 - 2,000nm, 2 meters. (Ferrule diameter: 5mm) |
| <b>LLG-05-59-340-0800-1</b> | Liquid lightguide, 5mm core, 0.59NA, 340 - 800nm, 1 meter. (Ferrule diameter: 7mm)    |
| <b>LLG-05-59-420-2000-1</b> | Liquid lightguide, 5mm core, 0.59NA, 420 - 2,000nm, 1 meter. (Ferrule diameter: 7mm)  |

## LIGHTGUIDE ADAPTERS FOR LED SOURCES

| Part Number           | Description  |
|-----------------------|--|
| <b>LCS-LGA22-0515</b> | Lightguide adapter for 22mm-diameter LED collimator source and beam combiner. For lightguide with ferrule diameter of 5mm (typical 3mm-core lightguide) and ferrule length of 15mm or greater. |
| <b>LCS-LGA22-0715</b> | Lightguide adapter for 22mm-diameter LED collimator source and beam combiner. For lightguide with ferrule diameter of 7mm (typical 5mm-core lightguide) and ferrule length of 15mm or greater. |
| <b>LCS-LGA22-0Q15</b> | Lightguide adapter for 22mm LED collimator source and beam combiner. For lightguide with ferrule diameter of 0.25"(6.35mm) and ferrule length of 15mm or greater.                              |
| <b>LCS-LGA22-1115</b> | Lightguide adapter for 22mm LED collimator source and beam combiner. For lightguide with ferrule diameter of 11.1mm and ferrule length of 15mm or greater.                                     |

## LIQUID LIGHTGUIDE HEAT SINKS

| Part Number          | Description                               |
|----------------------|---|
| <b>ACC-LLG-HS-03</b> | Heatsink for 3mm core liquid lightguides. |

## SLS SPOTLIGHTS HEAT SINKS

| Part Number       | Description  |
|-------------------|--|
| <b>ACC-SLS-HS</b> | This is an accessory for Mightex's LED Spotlights, used to assist heat dissipation in order to avoid overheat. |