

Coaxial Lights MFU series

Refer to our website for product details.

CCS MFU

Search



You can also use your smartphone or cell phone.

Use a search engine.

Provides light with high parallelism using original lighting technology



Applications Dimension measuring, dimension measuring for cylindrical objects, and inspection for fine burrs, etc.

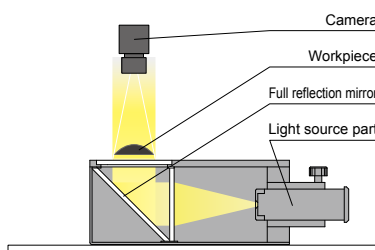
Characteristics

We achieved collimated lighting through unique lighting technology. It allows for highly-accurate imaging that prevents light from wrapping around the workpiece. It allows for convergence to match the imaging-side lens in use.

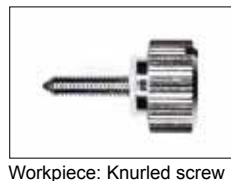
We accept custom orders. Please feel free to inquire.

- Change to format
- Increase brightness
- Change to wavelength, etc.

Example configuration (MFU-34x30)



Imaging example: Exterior imaging of a screw

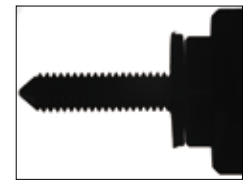


LED Flat Light



With a Flat Light, the illuminated light wraps around the workpieces, making it difficult to emphasize the edges.

MFU-34X30-BL



It prevents the illuminated light from wrapping around, allowing for the edges to be emphasized.

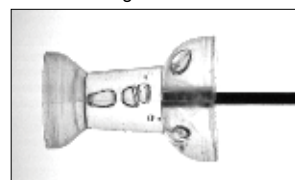
Comparison of imaging with a Flat Light and Collimated Light

Imaging example: Exterior imaging of a push pin

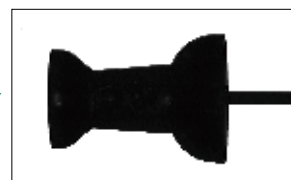
Workpiece image



LED Flat Light



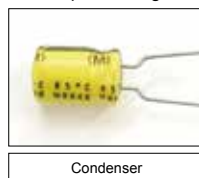
MFU-34X30-BL



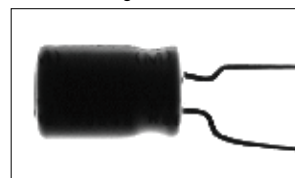
When the user looks at a clear resin push pin with diffused light from a Flat Light illuminated from the rear, the clear part appears clear. However, with collimated light, the light is refracted by the clear resin, and the whole pin appears black.

Imaging example: Imaging the exterior and dimensions of a condenser

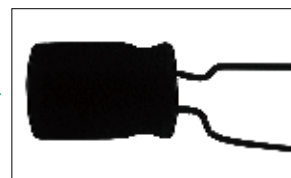
Workpiece image



LED Flat Light



MFU-34X30-BL



If you view it with diffused light of Flat Light illuminated from the rear, the light wraps around the side of the condenser body. However, with collimated light, that wrap around is prevented and the thickness of the wires is also imaged evenly.

We have various materials.

PDF Drawings

DXF Drawings

3D CAD

Instruction Guides

Product Filters

Imaging Samples

Data Sheets

Examples of Custom Ordered Products

Download here.

<http://www.ccs-grp.com/dl/>

Lineup

Model name	LED color	Power consumption	Peak wavelength	Options	Recommended Control Units	Weight
MFU-34X30-BL	Blue	12 V / 0.3 W	470 nm	-	PD2	185 g
MFU-54X40-BL	Blue	12 V / 0.3 W	470 nm	-	PSB PTU2	350 g

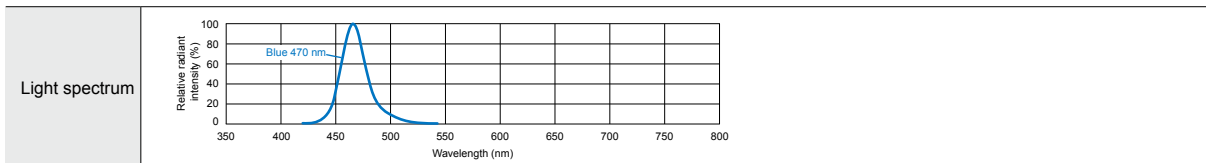
* Because the MFU series is for 12 V input, please select a Control Unit with a 12 V output.

Extension Cables ▶ P.222

Control Unit Selection Guide ▶ P.181

Control Unit Page ▶ P.185

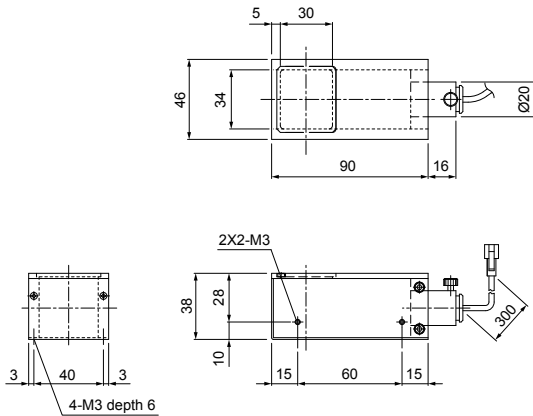
LED properties



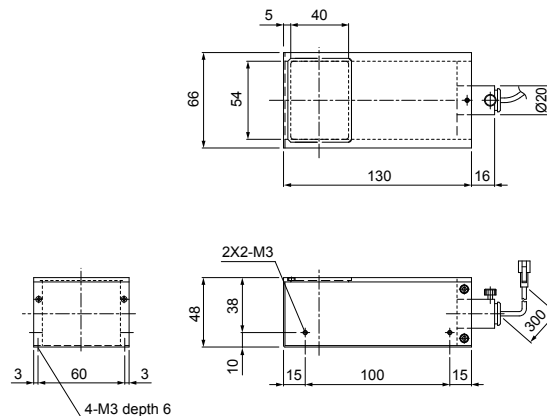
Be sure to read the "Instruction Guide" included with the product before use and observe cautionary information. The data included is for reference only and does not guarantee the quality of this product.

Dimensions (mm)

MFU-34X30-BL



MFU-54X40-BL



Regarding the procedure for usage

- 1) Set the item to be inspected and determine the imaging range.
- 2) Set this product and determine the distance between the lens and the camera (LWD).
- 3) Align this product's light axis with the center of the imaging field of vision.
- 4) Adjust intensity.

For details about the procedure for usage, refer to the material "How to Use the MFU Series" on our website. You can download this information from the product website page.