

Coaxial Lights MSU series

Refer to our website for product details.

CCS MSU

Search



You can also use your smartphone or cell phone.

Use a search engine.

Provides light with high parallelism using original lighting technology



Applications Inspection for fine damage on glossy surfaces and character recognition on glossy surfaces, etc.

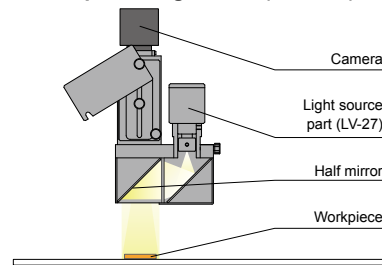
Characteristics

Provides collimated lighting created using a special lens. It is perfect for extracting tiny scratches, damage, or dents on mirror surfaces. The included lens can be used for convergent light.

We accept custom orders. Please feel free to inquire.

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

Example configuration (MSU-10)



Imaging example: Exterior imaging of button batteries



LED Coaxial Light



With the Coaxial Light, it is possible to reduce surface reflection and form an image of the engraved text.

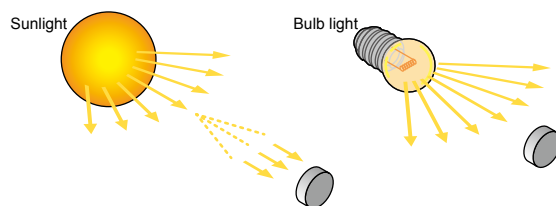
MSU-30X20RD2



Not only is the image of the engraved text more clear than with the Coaxial Light, fine differences in the surface can also be imaged.

Collimated light optical unit MSU series

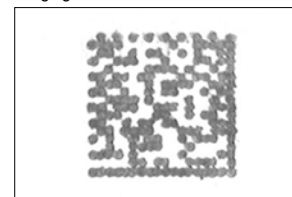
Light illuminated from a normal light source moves in a straight line while radially diffusing. Collimated light refers to light where one point of light illuminated from a source at infinitely far distance, such as the sun, hits any surface from the same angle. The MSU series is an optical unit developed by applying the principle of collimated light.



Extracts damage, scratches, and dents on mirror workpieces

This optical unit is effective for inspections that were difficult using conventional image processing, such as extracting shallow and tiny scratches, damage and dents, and reading barcodes on mirror workpieces.

Imaging of 2-dimensional code



Using an LED Light allows for high performance, stable, and low-cost imaging. This is an applied product that melds lighting technology design with optical design.

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

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/ correlated color temperature	Options	Recommended Control Units	Weight				
MSU-10RD2	Red	24 V / 0.8 W	630 nm	-	<table border="1"> <tr> <td>PD3</td> <td>CC-ST-1024</td> </tr> <tr> <td>PSB</td> <td>PTU2</td> </tr> </table>	PD3	CC-ST-1024	PSB	PTU2	275 g
PD3	CC-ST-1024									
PSB	PTU2									
MSU-10SW2	White	24 V / 0.4 W	5,500 K							
MSU-10BL2	Blue	24 V / 0.4 W	470 nm							
MSU-30RD2	Red	24 V / 0.8 W	630 nm	-	<table border="1"> <tr> <td>PD3</td> <td>CC-ST-1024</td> </tr> <tr> <td>PSB</td> <td>PTU2</td> </tr> </table>	PD3	CC-ST-1024	PSB	PTU2	2,000 g
PD3	CC-ST-1024									
PSB	PTU2									
MSU-30BL2	Blue	24 V / 0.4 W	470 nm							
MSU-30X20RD2* ¹	Red	24 V / 0.8 W	630 nm							
MSU-30X20SW2* ¹	White	24 V / 0.5 W	5,500 K	-	<table border="1"> <tr> <td>PD3</td> <td>CC-ST-1024</td> </tr> <tr> <td>PSB</td> <td>PTU2</td> </tr> </table>	PD3	CC-ST-1024	PSB	PTU2	540 g
PD3	CC-ST-1024									
PSB	PTU2									
MSU-30X20BL2* ¹	Blue	24 V / 0.5 W	470 nm							
MSU-30X20GR2* ¹	Green	24 V / 0.5 W	525 nm							
MSU-100RD2	Red	24 V / 0.8 W	630 nm	-	<table border="1"> <tr> <td>PD3</td> <td>CC-ST-1024</td> </tr> <tr> <td>PSB</td> <td>PTU2</td> </tr> </table>	PD3	CC-ST-1024	PSB	PTU2	9,920 g
PD3	CC-ST-1024									
PSB	PTU2									
MSU-100SW2	White	24 V / 0.4 W	5,500 K							
MSU-130RD2	Red	24 V / 0.8 W	630 nm	-		12,700 g				
MSU-130SW2-CL* ²	White	24 V / 0.4 W 24 V / 4.5 W	5,500 K	-	<table border="1"> <tr> <td>PD3</td> <td></td> </tr> <tr> <td>PSB</td> <td>PTU2</td> </tr> </table>	PD3		PSB	PTU2	13,000 g
PD3										
PSB	PTU2									

LED Properties: Light Spectrum ▶ P.234

Extension Cables ▶ P.222

Control Unit Selection Guide ▶ P.181

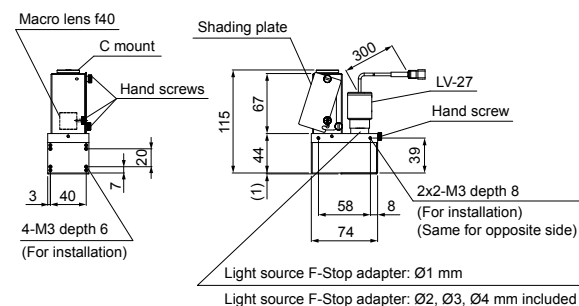
Control Unit Page ▶ P.185

*1: Cannot be used with the Digital Control Unit PD3-5024-4/10024-8 series.

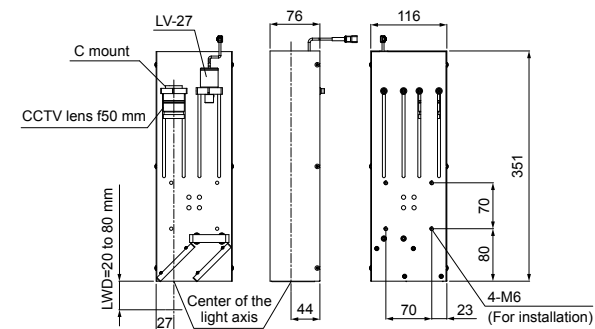
*2: The MSU-130SW2-CL is equipped with two Light Units. Use a 2-channel Control Unit.

Dimensions (mm)

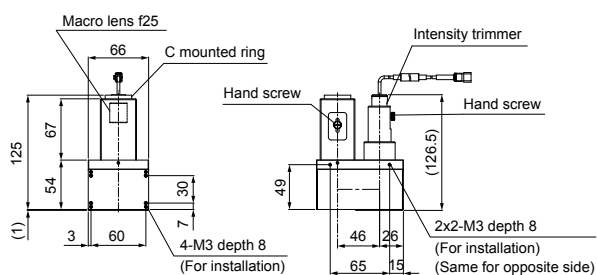
MSU-10RD2/SW2/BL2



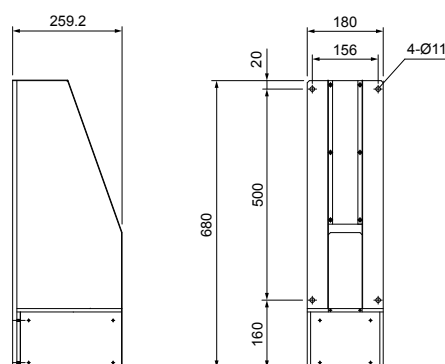
MSU-30RD2/BL2



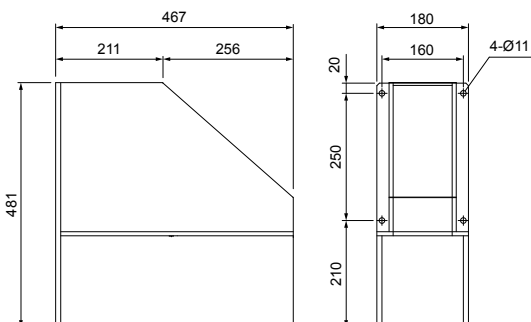
MSU-30X20RD2/SW2/BL2/GR2



MSU-100RD2/SW2



MSU-130RD2/SW2-CL



Reference chart for the field of vision (Estimate)

Using a 1/3 inch sensor camera

Model name	Field of vision	WD
MSU-10	7.5 mm	58 mm
MSU-30	18.7 mm	50 mm
MSU-30X20	15 mm	24 mm
MSU-100	60 mm	50 mm

* Regarding reference field of vision
This is an estimate to help you select a Light Unit, and
individual units may vary from the data listed above depending
on your imaging conditions.

You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.125 for details.

You can inquire using
our website.

Requests for
Light Unit
Selection

Requests for
Loan
Products

Requests for
Estimates

Requests for
a Catalog

Product
Inquiries

Other
Inquiries

Inquire on our website here.
<http://www.ccs-grp.com/contact/>