

Diffused Lighting

Dome Lights

LAV Series

Provides diffused light evenly using a mechanism that combines a diffused lighting and a coaxial lighting

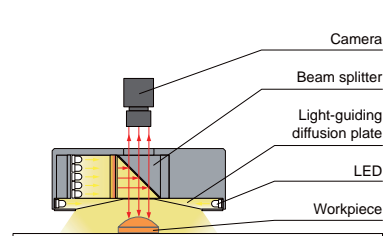


Applications Faulty plating inspection, inspection of a sealed target, inspection for foreign material attached to a glossy surface, character recognition and text inspection of glossy surfaces, dimension measuring of electronic parts, etc.

Features

This Light Unit combines diffused lighting and a coaxial lighting. It can evenly perform uniform illumination for glossy, curved workpieces.

Example configuration (LAV-80)



Imaging example: Imaging the appearance of connector pins



Workpiece: Connector pins

We accept custom orders. Please feel free to inquire.

- Shape modifications
- Brightness increases
- Changes in wavelength, etc.

LED Ring Light



It is difficult to illuminate the whole thing evenly to form an image of the exterior.

LAV-80RD2



It is possible to illuminate the whole thing evenly to form an image of the exterior.

Lineup

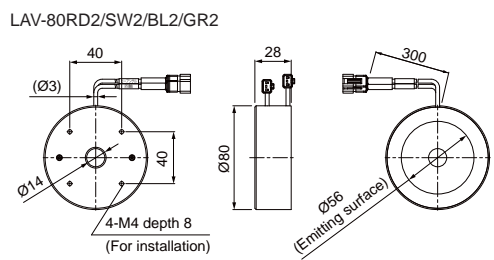
Model name	LED color	Power consumption	Peak wavelength / correlated color temperature	Options	Extension cables	Recommended Control Units	Weight						
LAV-80RD2	Red	24 V / 3.6 W	630 nm	-	<table border="1"> <tr> <td>FCB^{*2} Straight Cable</td> <td>FCB-F 4-branch Cable</td> </tr> <tr> <td>FCB-W^{*3} 2-branch Cable</td> <td>FRCB Robot Cable</td> </tr> </table>	FCB ^{*2} Straight Cable	FCB-F 4-branch Cable	FCB-W ^{*3} 2-branch Cable	FRCB Robot Cable	<table border="1"> <tr> <td>PD3</td> <td>POD^{*1}</td> </tr> </table>	PD3	POD ^{*1}	190 g
FCB ^{*2} Straight Cable	FCB-F 4-branch Cable												
FCB-W ^{*3} 2-branch Cable	FRCB Robot Cable												
PD3	POD ^{*1}												
LAV-80SW2	White	5,500 K											
LAV-80BL2	Blue	470 nm											
LAV-80GR2	Green	525 nm											

LED Properties: Spectral Distribution ▶ P.326 Extension Cables ▶ P.308 Control Unit Selection Guide ▶ P.251 List of Control Unit Specifications ▶ P.253

Use a 2-channel Control Unit.

*1 The cables with a model name that ends with "-ME7", "-EL2", "-PF", or "-PF-EL9" are not included. *2 The cables with a model name that ends with "-EL2" are not included.

Dimensions (mm)



The emitting surface for the LAV-80SW2/BL2/GR2 is Ø54.

Illumination part	Power consumption
Coaxial illumination part	Red: 1.0 W White/Blue/Green: 1.6 W
Diffused illumination part	Red: 2.6 W White/Blue/Green: 3.4 W

If adjusting the intensity for each part separately, use a 2-channel Control Unit.

You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.5 for details.

Various technical documents available.

- PDF Drawings
- DXF Drawings
- Product Brochures
- Instruction Guides
- 3D CAD
- Data Sheets
- Imaging Examples
- Digital Catalogs