



# Spot Lights

## LSP-41 Series

Super-Uniform Spotlight for wide variety of applications



### Bright at a long working distance

High luminance spot lights "LSP-41 Series" is suited for limited and long working distance from 300mm to 500mm, with a compact design-Ø41mm diameter housing.

Applications; reading bar codes/2D codes. Inspecting die cast products such as automobile parts, wooden materials, and plastic materials.

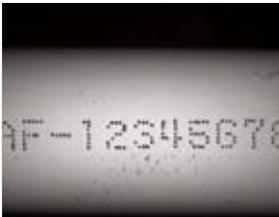
Reading bar code  
Light used: LSP-41RD



Reading QR code  
Light used: LSP-41RD



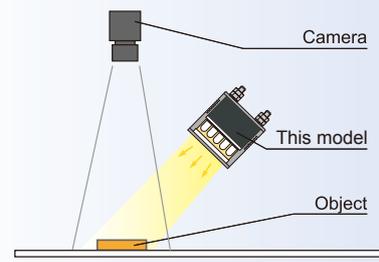
Inspecting dot-marked characters on pipe  
Light used: LSP-41RD



\* Optional Parts  
Polarizing plate: PL-LSP-41

### Illumination Structure of LSP-41RD

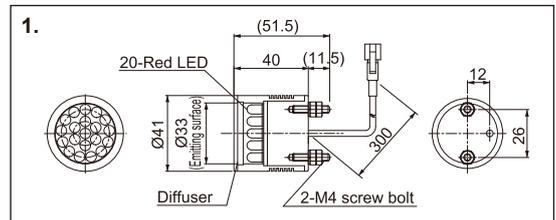
Narrow directive LEDs provide high condensing illumination. It also provides soft, even illumination through the diffusion plate.



### Product Lineup Table

Series	Model Name	Color	Power Consumption	Options	Dimension
LSP-41	LSP-41RD	●	12V / 2.0W	P	1

### Dimension Diagrams (Unit: mm)





# Spot Lights

## LV Series

# Lens

## MAC-13XA

Spot illumination that illuminates evenly

The first in the industry!  
Hi-magnification macro lens with variable magnification from 7X to 13X



### Spot illumination that can be used for a wide variety of applications(LV-27)

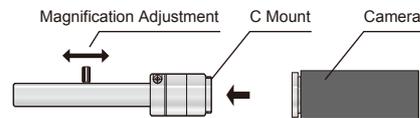
Lightweight, Compact, and Low Power Consumption

- Standard products are available in red, white, blue, and green.
- In addition to tip of an 8-mm diameter, tip with a 10-mm or 12-mm diameter are available as options.
- Compact and light-weight design.
- Low energy consumption of 0.7 W.
- In addition to the use as spot illumination that illuminates evenly, the LV Series can be used in the coaxial epi-illumination section of macro lenses.

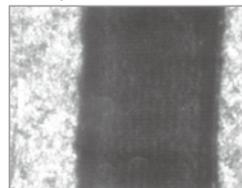
### Macro Lens (MAC-13XA)

The first in the industry! Hi-magnification macro lens with variable magnification from 7X to 13X.

Can be directly installed on the C mount section of a camera. Because the outer diameter can be held firmly, this product can suppress the impact of vibrations and can be used for factory automation applications.



markings on metal scale



Examples of MAC-13XA Illumination Imaging

FOV : 0.3mm  
LWD : 15mm  
magnification : 13X

Direct Number	Model Name	Dimension
4000366	MAC-13XA	1

Direct Number :

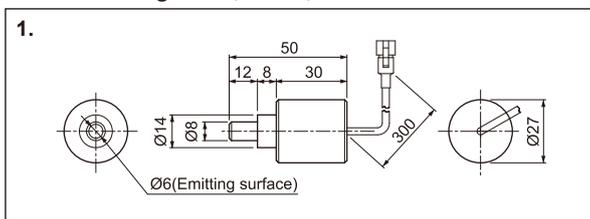
You can easily access the web page providing information on any desired product by simply entering the 7-digit direct number in the space provided. (Refer to the back cover of this brochure.)

### Product Lineup Table

Series	Direct Number	Model Name	Color	Power Consumption	Dimension
LV	1002432	LV-27-R	●	12V / 0.7W	1
	1002438	LV-27-SW	○	12V / 0.7W	
	1002425	LV-27-BL	●	12V / 0.7W	
	1002428	LV-27-GR	●	12V / 0.7W	

\*The peak light frequency of the LV-27-R (red light) is 623 nm.

### Dimension Diagrams (Unit: mm)



### Magnification/Field of View

Magnification	L	WD	1/3 in.CCD	1/2 in.CCD	2/3 in.CCD
7X to 13X	104 to 134	85 to 68	Field of View: 0.5 to 0.3	Field of View: 0.7 to 0.4	Field of View: 1 to 0.5

### Dimension Diagrams (Unit: mm)

