

# Line Lights

## LN Series

### Line-shaped, convergent-beam system

The convergent beam system uses a cylindrical lens to produce highly focused LED illumination.



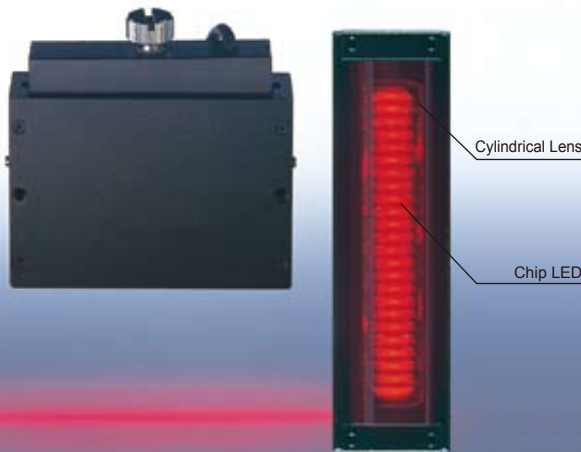
#### LN-series Convergent Line Lights

Light from the chip LEDs inside the unit passes through the cylindrical lens and is formed into a high-intensity, tightly focused beam. The beam width can be adjusted by changing the End Unit. Units with 60-mm or 200-mm light-emitting surfaces are available. The LEDs comes in red, white, blue, or green.

#### High-output LN-HK Series

High output is achieved by the use of white power LEDs and a unique heat dissipating construction. Units with 60-mm or 200-mm light-emitting surfaces are available. The standard models come with white LEDs.

#### LN-60A Illumination Image



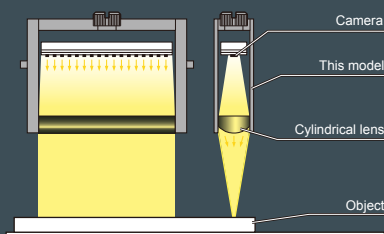
#### LN-200SW-HK-STK Illumination Image



The LN-HK Series has an output that is high enough to replace halogen light sources. The LN-200SW-HK-STK with a 200-mm light-emitting surface consumes only 22 W, which can provide a large energy savings. Running costs will also be reduced as LEDs have a long service life and they do not burn out like halogen lamps.

#### Illumination Structure of LN-60A

The workpiece is illuminated with high-luminosity light from chip LEDs that has been converged into a line by passing it through a cylindrical lens on the front.

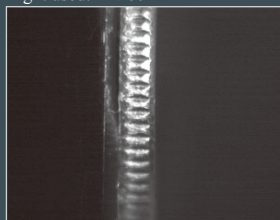


#### Examples of Convergent Beam Light Images

##### Inspecting the side of a coin

Convergent line light illuminates only the side of the coin.

Light used: LN-60A



##### Measurement inspection of connector pin widths

Only the tip of each connector pin is illuminated, enabling point inspection.

Light used: LN-60A



##### Surface inspection on glass surface.

Light is projected from side, thus illuminating scratch.

Light used: LN-60A



Direct Number : A direct number is a 7-digit number assigned to a CCS product. You can easily access the web page providing information on any desired product by simply entering the direct number in the space provided on the CCS website pages for machine vision. (Refer to the back cover of this brochure.)

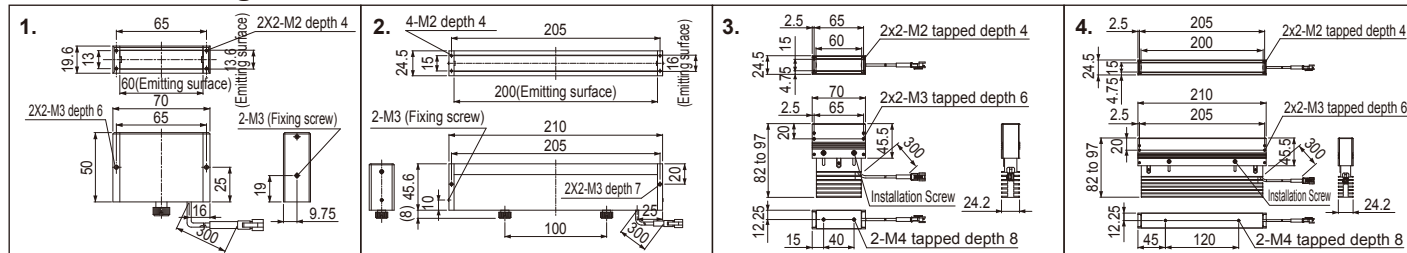
## Product Lineup Table

Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimension
LN	1002132	LN-60A	●	12V / 2.2W	—	1
	1002131	LN-60-SW	○	24V / 1.0W		
	1002129	LN-60-BL	●			
	1002130	LN-60-GR	●	24V / 3.3W	—	2
	1002115	LN-200	●			
	1002119	LN-200-SW	○			
	1002116	LN-200-BL	●			
1002117	LN-200-GR	●				

Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimension
LN-HK	1003120	LN-60SW-HK-STK	○	24V / 6.1W	—	3
	1003067	LN-200SW-HK-STK	○	24V / 22W	—	4

\*The peak wavelength of LN-60A (Red lights) is 647nm.

## Dimension Diagrams (Unit: mm)



## Typical Applications

