CCS
CREATIVE CUSTOMER SATISFACTION

LIGHTING SOLUTION
LED Illuminators for Machine Vision

The Market Highest Level of Uniformity and Brightness

LED LINE LIGHT
LT SERIES NEW

LED LINE LIGHT LT SERIES

Patent Pending

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STEMMER® IMAGING

The Market Highest Level of Uniformity and Brightness

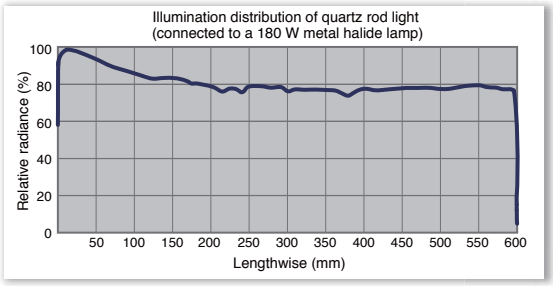
Realize both high uniformity and high brightness

The highest level of "Uniformity" *

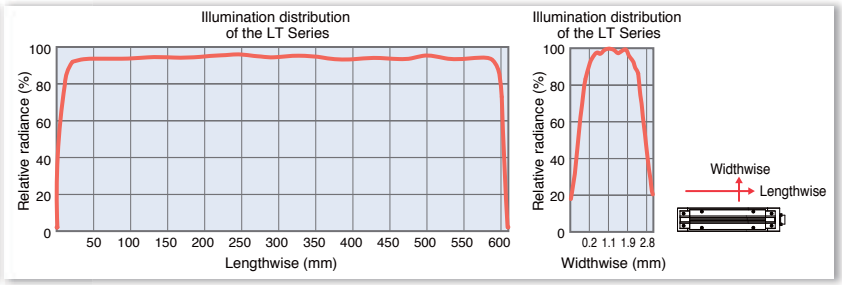
* According to our own research on line sensor lights as of March 2010.

In a comparison of uniformity with quartz rod light, the LT Series realizes higher uniformity.
Greater uniformity enables more precise inspection.

Quartz rod light uniformity



LT Series uniformity



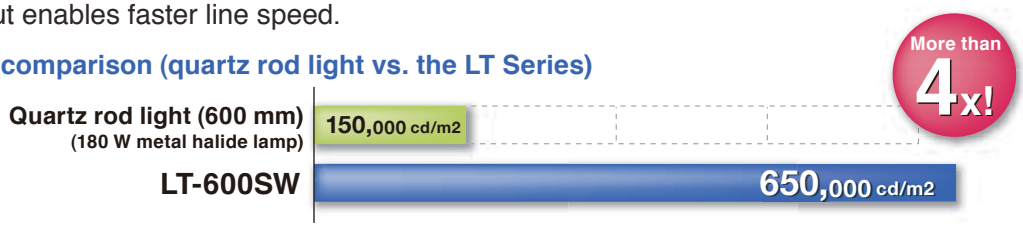
* Data is for reference only and does not ensure product quality.

More than 4 times the "Brightness" *

* Under our own measurement environment.

In a comparison of brightness with quartz rod light, the LT Series realizes more than four times higher output.
Greater output enables faster line speed.

Brightness comparison (quartz rod light vs. the LT Series)

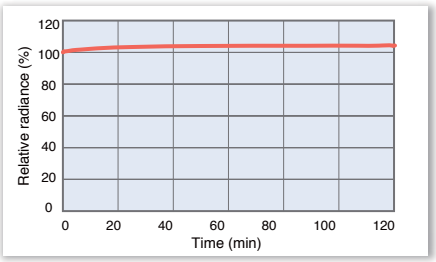


* Data is for reference only and does not ensure product quality.

Stable brightness vs. Demand of longer life

Fluctuation over time

Change in radiance over time



2% fluctuation

Stable about 20 minutes after turning on

Actual measurement at 100% intensity and an outside temperature of 20°C. (Values are not guaranteed.)

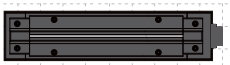
Service life

Over **20,000** hours!

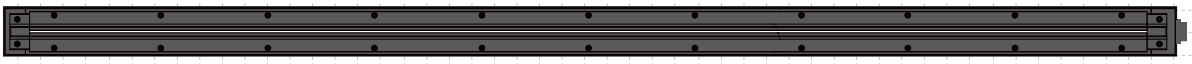
Calculated at 100% intensity and an ambient temperature of 25°C until light output drops to 50%.
(Values are not guaranteed.)

Various sizes available

We offer LT Series at lengths that are optimum to each application.



The emitting surface length is selectable in 100 mm increments from a **minimum of 100 mm**.



up to a 1,800 mm

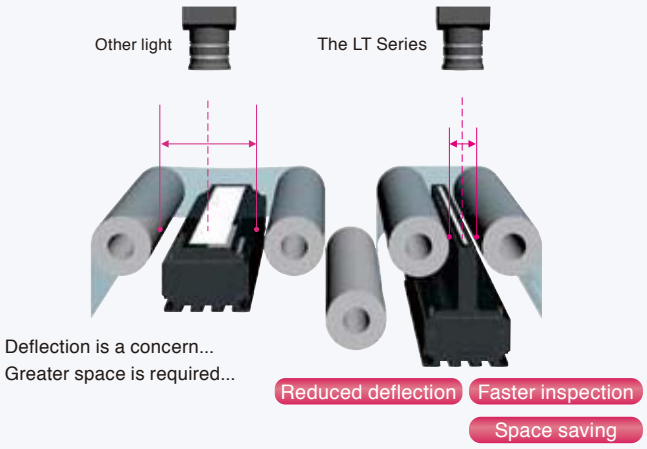
Emitting surface lengths can be ordered in 100 mm increments. Lengths from 100 mm to 1,800 mm make the LT Series suitable a wide variety of applications.

LED LINE LIGHT

NEW LT SERIES

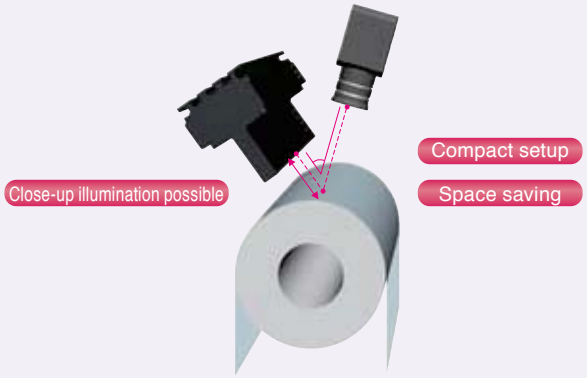
An illumination structure suitable to each working environment

Transparent example



Inspection speed can be improved by narrowing the distance between rollers.

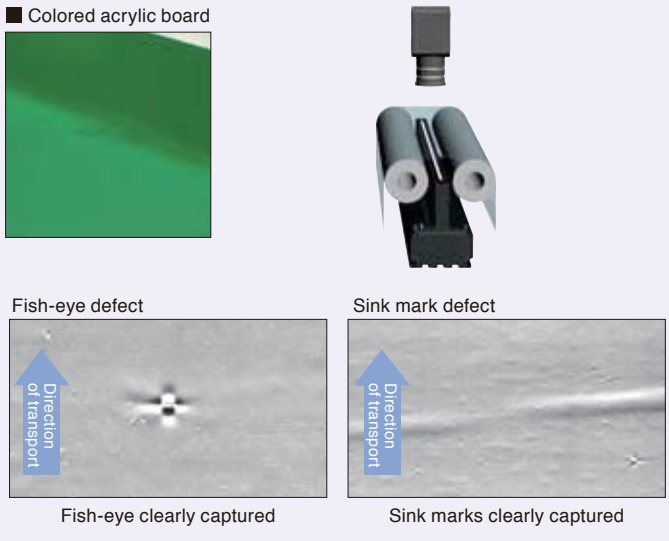
Direct reflection example



Inspection is possible by mounting the camera at a narrow angle.

Making the optimum imaging possible

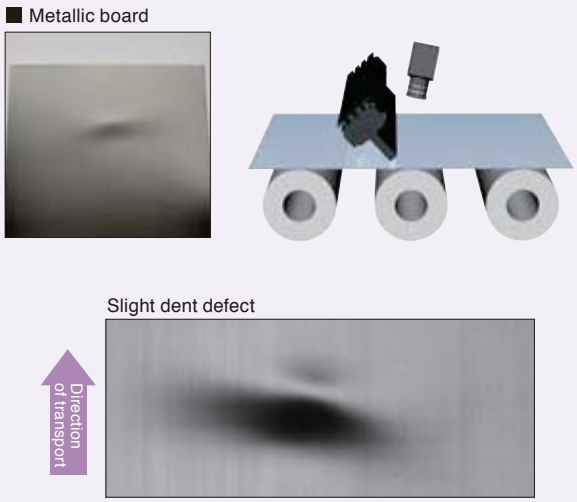
Transparent imaging



Fish-eye clearly captured

Sink marks clearly captured

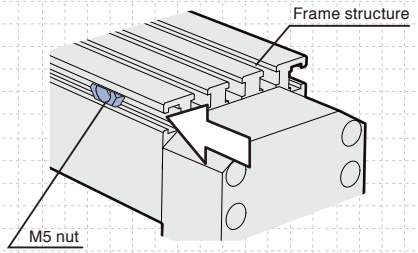
Direct reflection imaging



Slight dents accurately captured

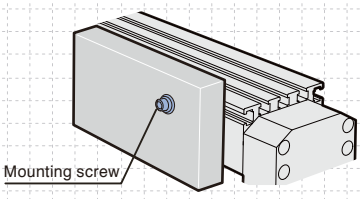
New mounting method

Flexible installation is available to suit different working environments.

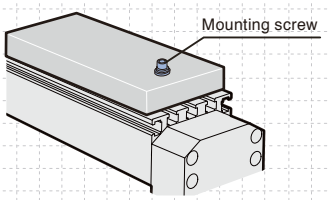


The M5 nut is inserted into a slot of the frame.

Side mounting



Rear mounting



* The customer must arrange the mounting screw and M5 nut.

Main Specifications

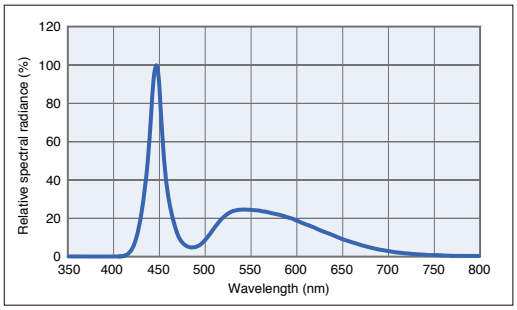
LT Series common specifications

Model	LT- (100xn) SW "100xn" = Emitting surface length
Input voltage	DC 24V
LED color	White
Correlated color temperature	10,000K
Connector	Metal (7-pin and plug)
Polarity and signal	1, 2, 3: (+) 4, 5, 6: (-) 7: NC
Cooling system	Natural air cooling
Operating environment (for indoor use only)	Temperature: 0 to 40°C, Relative humidity: 20 to 85% (non-condensing)
Storage environment	Temperature: -20 to 60°C, Relative humidity: 20 to 85% (non-condensing)
Case material	Aluminum alloy

Specifications by model

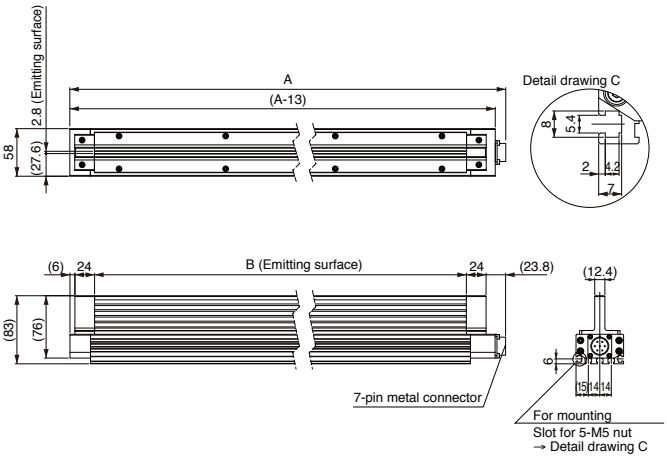
Model	Power consumption (W)	Weight (g)	For external dimension diagrams		
			n	A: Overall length (mm)	B: Emitting surface (mm)
LT-100SW	15	500	1	178	100
LT-200SW	29	1000	2	278	200
LT-300SW	43	1500	3	378	300
LT-400SW	57	2000	4	478	400
LT-500SW	71	2500	5	578	500
LT-600SW	85	3000	6	678	600
LT-700SW	99	3500	7	778	700
LT-800SW	113	4000	8	878	800
LT-900SW	128	4500	9	978	900
LT-1000SW	142	5000	10	1078	1000
LT-1100SW	156	5500	11	1178	1100
LT-1200SW	170	6000	12	1278	1200
LT-1300SW	184	6500	13	1378	1300
LT-1400SW	198	7000	14	1478	1400
LT-1500SW	212	7500	15	1578	1500
LT-1600SW	226	8000	16	1678	1600
LT-1700SW	240	8500	17	1778	1700
LT-1800SW	255	9000	18	1878	1800

Spectral distribution



External dimension diagram (unit: mm)

LT- (100 x n) SW (n = 1 to 18)



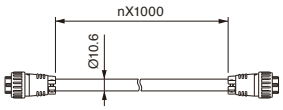
Dedicated cable

Length	Model
2 m	FCB-2-1.25SQ-ME7
3 m	FCB-3-1.25SQ-ME7
5 m	FCB-5-1.25SQ-ME7

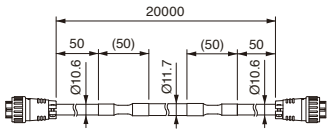
Length	Model
10 m	FCB-10-1.25SQ-ME7
20 m	FCB-20-2.0SQ-ME7

External dimension diagram (unit: mm)

FCB-n-1.25SQ-ME7 (n=2,3,5,10)



FCB-20-2.0SQ-ME7



Dedicated power supply

The PSB2-10024-EX(A) is used for emitting surface lengths between 100 and 700 mm.

The PSB2-30024-EX(A) is for emitting surface lengths between 800 and 1,800 mm.

* See our general catalog or website for the specifications and dimensions, etc., of the dedicated power supply.

Model	xxx (emitting surface length) (mm)	Power supply
LT-xxx SW	100 to 700	PSB2-10024-EX (A)
	800 to 1800	PSB2-30024-EX (A)

Notes:

- Carefully read the product's instruction manual before use to ensure correct operation.
- Product specifications and design are subject to change without notice.
- Examples of workpiece imaging in this catalog are a guide that may be informative for choosing illuminations. Please check the functions of the equipment and requirements when choosing.

CCS Inc.
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