

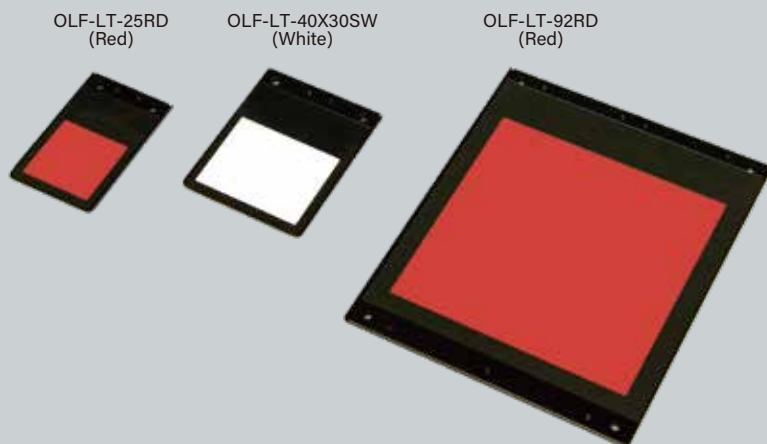
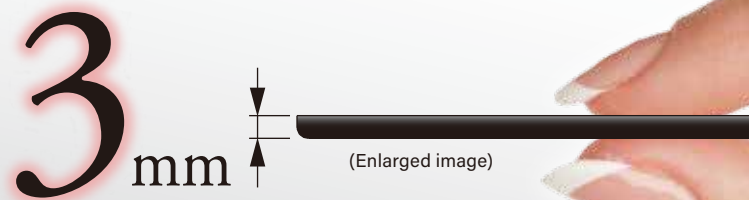
Organic LED Lights for Machine Vision

OLF-LT Series

Patent Filed

Unprecedented thin design!

- Achieves the uniformity and brightness required for machine vision applications
- Expands the possibilities for lighting installation with a 3 mm thin design
- Lightweight, and low heat next-generation light source* *Comparison between LED lights made by our company.
- Red and white light emitting colors available
- Notifies the user regarding recommended lighting replacement periods by connecting to a dedicated controller



» New Product Brand "CCS-LT"

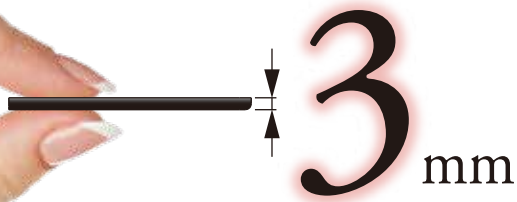


"CCS-LT" ("CCS Leading Technology") is a new CCS product brand providing advanced technologies. Its purpose is to introduce newly developed technologies to the market early and to broaden our range of solution proposals.

*The warranty period for lighting products is for 1 year from when the product ships. Emission amounts not guaranteed. Contact our local sales office for details.

» 3-mm thinness expands the possibilities for lighting installation

■ Next-generation light sources achieving a thinner form



(example)

■ Lightweight

OLF-LT-25



OLF-LT-40X30

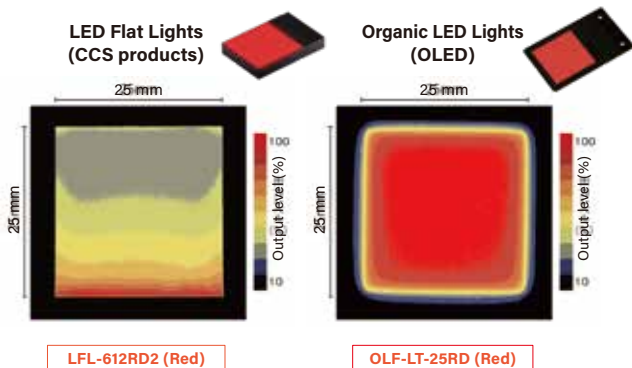


OLF-LT-92

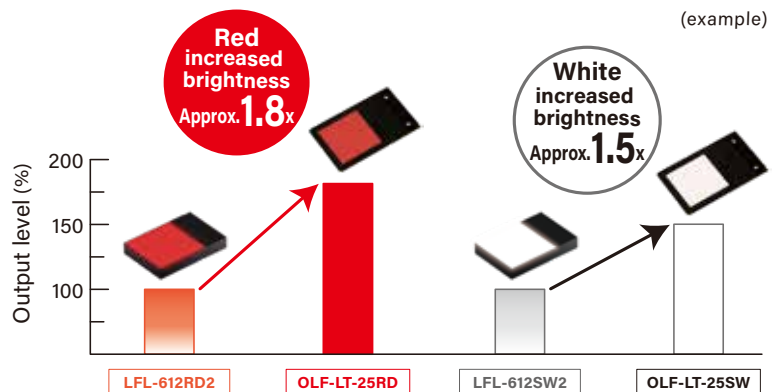


» Achieves the uniformity and brightness required for machine vision applications

■ Uniformity/brightness comparison with LED flat lighting (CCS products)



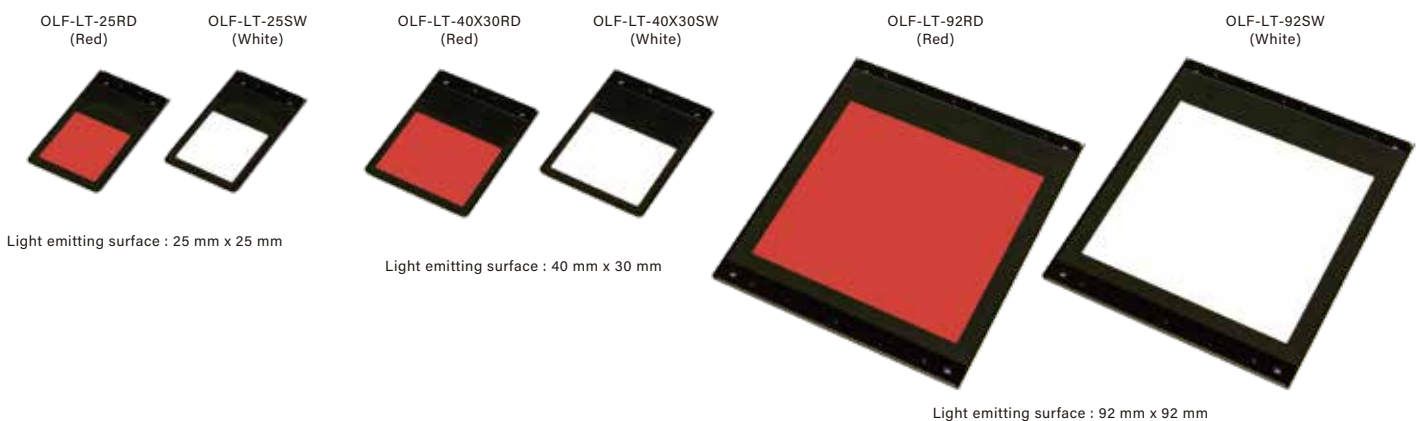
(Data is for reference only. Not a guarantee of product quality.)



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» Available in 3 sizes, for a total of 6 models

■ Light emitting surfaces in 3 sizes: 25 mm x 25 mm, 40 mm x 30 mm, 92 mm x 92 mm, and 2 colors: red and white



» Dedicated controller with predictive maintenance function (lighting service life prediction)

Automatically recognizes connected lights and accumulates data on light usage



This product is a controller made by Gardasoft.

OC-0736-1-ET



- 24 VDC Input
- Equipped with 1 channel
- Regular Emission, ON/OFF Emission, Strobe Emission (With Overdrive Mode)
- Configuration via Ethernet or buttons on the panel
- Strobe Light Emission Time Setting: 100 μ s to 10 ms (100 μ s units)
- Light Emission Delay Time Setting: 2 μ s to 10 ms (100 μ s units)
- Weight: 300 g max.

OC-G-5646-2-ET



- 24 VDC Input
- Equipped with 2 channels
- Regular Emission, ON/OFF Emission, Strobe Emission (With Overdrive Mode)
- Configuration via Ethernet
- Strobe Light Emission Time Setting: 10 μ s to 10 ms (1 μ s units)
- Light Emission Delay Time Setting: 2 μ s to 10 ms (1 μ s units)
- Weight: 550 g max.

Notifies the user regarding recommended lighting replacement periods* by connecting to a dedicated controller

Three stages of lifetime status

- (1) **Good** (no problems)
- (2) **Lifetime warning** (replacement period approaching)
- (3) **Lifetime expired** (replacement recommended)

*Settings can be verified using a web browser while the lights are connected to the controller and the controller is connected to a PC via LAN connection.

Regarding the recommended lighting replacement period

Expected Service Life

(Continuous Lighting, Dimmer 100%, Ambient Temperature 40°C, Design Value Until Irradiation Amount Drops to 50%) * Not a guaranteed value. When the expected service life is at 20%, the "Lifetime warning" notice is displayed, and when at 0%, the "Lifetime expired" notice is displayed.

*See the specifications below for the expected service life of each light.

» Specifications by lighting model

Model name	LED emitting color	Peak wavelength/Correlated color temperature (typ.)	Input current (max.)	Power consumption (max.)	Weight (max.)	Expected service life (hours)
OLF-LT-25RD	Red	630 nm	0.019 A	0.40 W	19 g	50,000
OLF-LT-25SW	White	3800 K	0.018 A	0.42 W	19 g	32,000
OLF-LT-40X30RD	Red	630 nm	0.037 A	0.78 W	29 g	50,000
OLF-LT-40X30SW	White	3800 K	0.035 A	0.81 W	29 g	28,000
OLF-LT-92RD	Red	630 nm	0.262 A	5.6 W	102 g	50,000
OLF-LT-92SW	White	3800 K	0.250 A	5.8 W	102 g	19,000

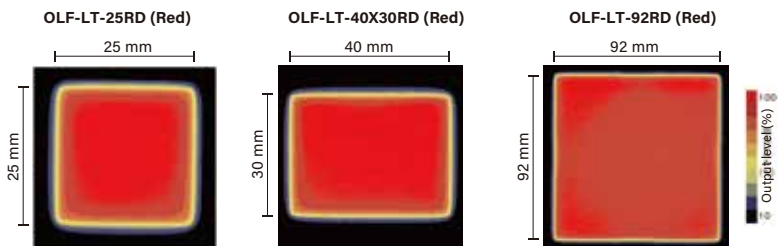
*Use OC-G-5646-2-ET when using OLF-LT-92 model in overdrive mode.

» General specifications

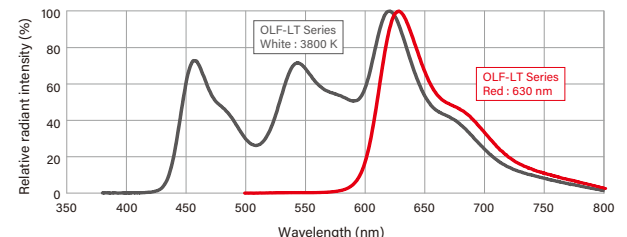
Cable length	300 mm
Cooling method	Natural air-cooling
Operating environment (indoors only)	Temperature: 5 to 40°C, Humidity: 20% to 85% (with no condensation)
Storage environment	Temperature: -20 to 50°C, Humidity: 20 to 85%RH (with no condensation)
CE marking	Safety standard: Conforms to EN62471
Environmental regulations	RoHS2 compliant
Case material	Aluminum alloy
Accessories	Instruction Manual, Extension Cable (1 m)

*The warranty period for lighting products is for 1 year from when the product ships. Emission amounts not guaranteed. Contact our local sales office for details.

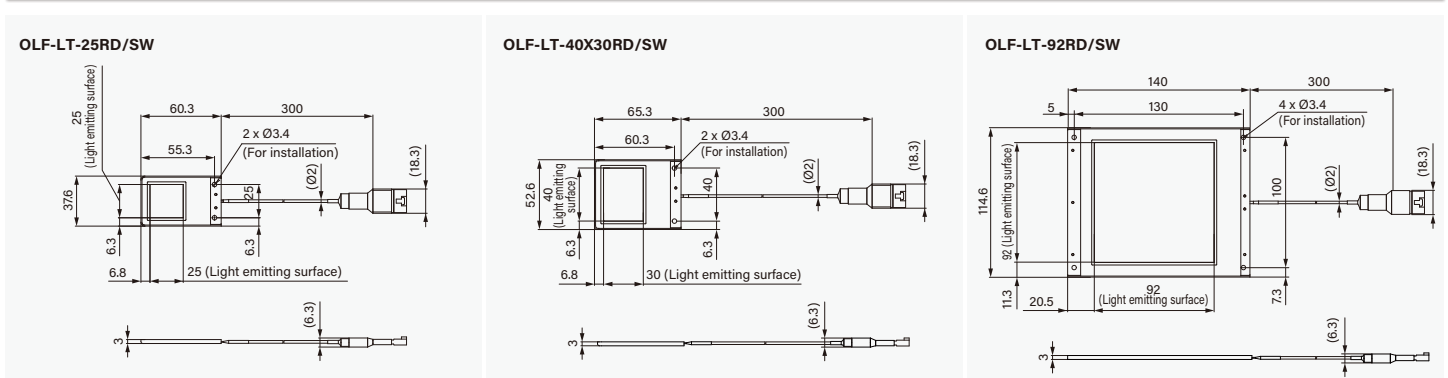
» Uniformity (Relative irradiance)



» Spectral distribution



» External dimensions diagram (mm)



OC-0736-1-ET specifications

Input voltage	24 VDC (21.6 to 26.4 V)
Drive method	Constant-current system
Light emission mode	Regular Emission [Continuous], ON/OFF Emission [Switch], Strobe Emission (With Overdrive Mode) [Pulse]
Setting method	Ethernet, Panel Surface Button Operation
Number of channels	1 channel
Input current peak	1 A
Power consumption (typ.)	12 W (Continuous light emission at time of maximum load)
Trigger cycle	Max. 100 Hz
Trigger input	3 to 24 VDC input TTL, NPN, and PNP Input impedance (nominal) 8 kΩ
Strobe light emission time setting	100 μs to 10 ms (100 μs units)
Light emission delay time setting	2 μs to 10 ms (100 μs units)
Strobe emission response speed	Max. 10 μs
ON/OFF emission response speed	Max. 100 μs
Operating environment	Temperature: 0 to 40°C, Humidity: 20 to 85% RH (with no condensation)
Storage environment	Temperature: - 20 to 60°C, Humidity: 20 to 85% RH (with no condensation)
CE marking	EMC standard: Conforms to EN61000-6-2, EN61000-6-4
Environmental regulations	RoHS2 compliant
Weight	300 g max.
Accessories	Würth 351 Series 2 pin x1, Würth 361 Series 4 pins x1

OC-G-5646-2-ET specifications

Input voltage	24 VDC (21.6 to 26.4 V)
Drive method	Constant-current system
Light emission mode	Regular Emission [Continuous], ON/OFF Emission [Switch], Strobe Emission (With Overdrive Mode) [Pulse]
Setting method	Ethernet
Number of channels	2 channels
Input current peak	10 A
Power consumption (typ.)	Each Channel: 30 W, Total: 56 W
Trigger cycle	Max. 1 kHz
Trigger input	3 to 24 VDC Input, Photocoupler ON current of 3 mA or more
Strobe light emission time setting	10 μs to 10 ms (1 μs units)
Light emission delay time setting	2 μs to 10 ms (1 μs units)
Operating environment	Temperature: 0 to 40°C, Humidity: 20 to 85% RH (with no condensation)
Storage environment	Temperature: - 20 to 70°C, Humidity: 20 to 85% RH (with no condensation)
CE marking	EMC standard: Conforms to EN61000-6-2, EN61000-6-4
Weight	550 g max.
Accessories	Würth 351 Series 2 pin x1, Würth 361 Series 4 pins x1

*Use this controller when using OLF-LT-92 model in overdrive mode.

Optional extension cable

Model name	OLCB-2	OLCB-3	OLCB-5
Cable length	2 m	3 m	5 m
Weight	127 g max.	182 g max.	292 g max.

Regarding the recommended lighting replacement period

Expected Service Life (Continuous Lighting, Dimmer 100%, Ambient Temperature 40°C, Design Value Until Irradiation Amount Drops to 50%) * Not a guaranteed value.
When the expected service life is at 20%, the "Lifetime warning" notice is displayed, and when at 0%, the "Lifetime expired" notice is displayed.
*See the specifications of each light for its expected service life.

● "CCS", "LIGHTING SOLUTION", "CCS-LT", and "OLF" are registered trademarks or trademarks of CCS Inc.

Notes

● To ensure proper and safe use of the product, please read the Instruction Guide completely before using the product. ● The design and specifications of this product are subject to change without notification for product improvement.

Warranty Warranty for this product are not the same as CCS standard lighting. Contact our local sales office for details.

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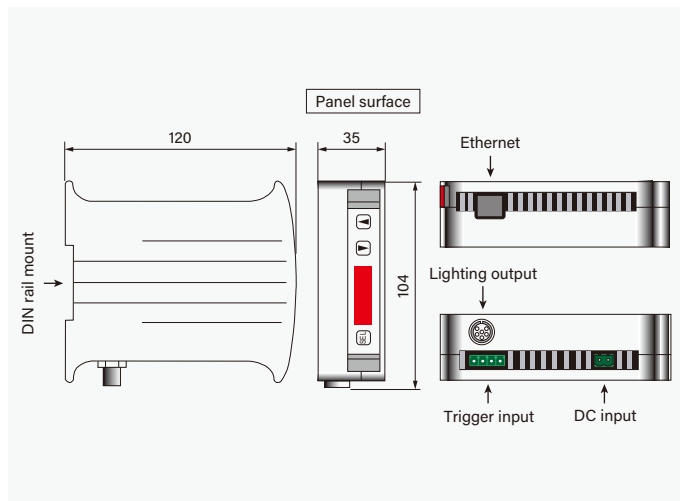
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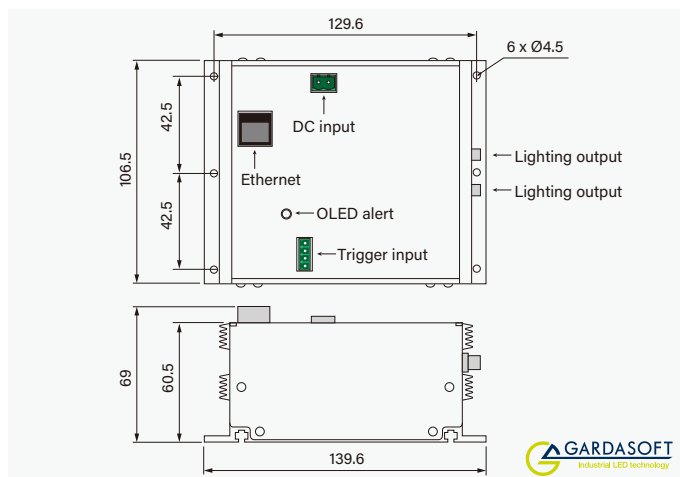
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OC-0736-1-ET external dimensions diagram (mm)

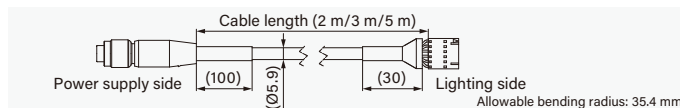


OC-G-5646-2-ET external dimensions diagram (mm)



This product is a controller made by Gardasoft and uses a different warranty system. Contact your local sales office for details.

OLCB external dimensions diagram (mm)



*A 1 m cable is supplied with this light.

For information on your nearest CCS office, refer to our website.
https://www.ccs-grp.com/office/

