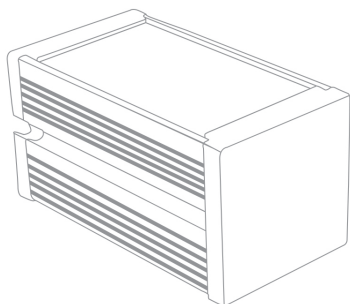


UV BAR LIGHT - PURE UV™ TECHNOLOGY

ELBC SERIES: ELBC-100PUV365



The ELBC Series is a **high-power** flood type bar light with innovative design features to answer the needs of many machine vision applications.

This UV Bar light is dedicated to **UV Fluorescence applications**. It integrates the advanced **Pure UV™** technology - an optical system that drastically improves the fluorescence effect while concurrently **removing glare** and **improving contrast**.

The **integrated controller** with our **Auto-strobe** feature allows for 300% increased intensity while being strobed as compared to continuous mode.

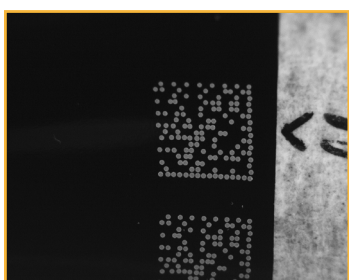
MAIN FEATURES

- Very **intense** and **uniform** illuminated area
- Direct connection** for strobe use with *COGNEX In-Sight 7000 Series*
- Long lifetime and minimal maintenance
- Standard connections and fasteners
- Pure UV™ technology** integrated for perfect contrast

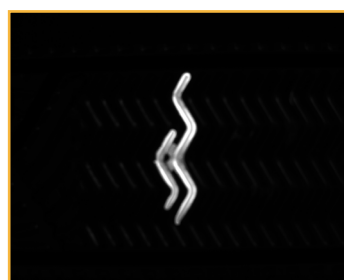


Connector	M12 - 4 contacts
Power supply	24V DC
Illumination mode	Continuous or Overdrive strobe mode
Electronical mode	Auto-strobe
Available wavelength	UV 365nm
Available size	100mm (other sizes upon request)
Width x Height	51mm x 49mm
Mounting	One T-slot on the back for M6 T-nuts 8mm slot (2x M6 T-nuts included), and one slot on the side for M6 hex nuts
Material	Device body: Aluminum alloy; Window: PMMA
Working temperature	0° to 50° C
IP code	IP50

APPLICATIONS

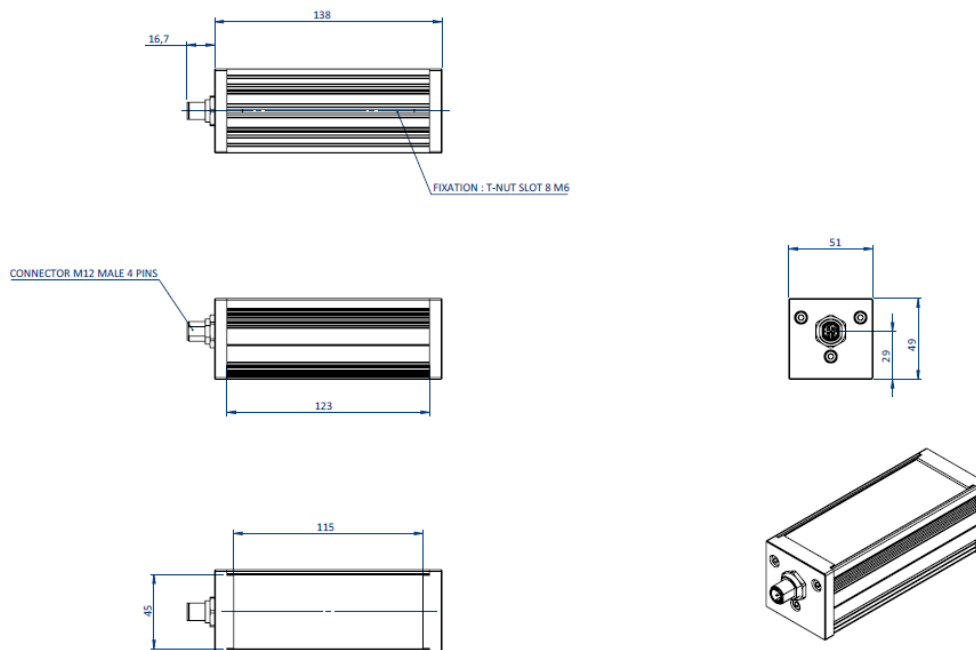


Traceability



Quality control

DIMENSIONS (MM)



The ELBC Series is delivered with two M6 T-nuts.

ELECTRONICAL SPECIFICATIONS

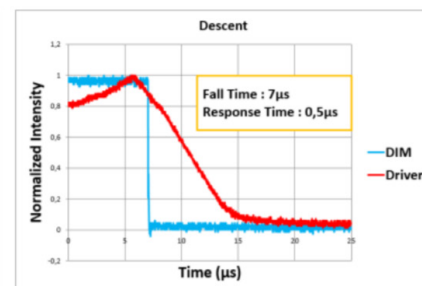
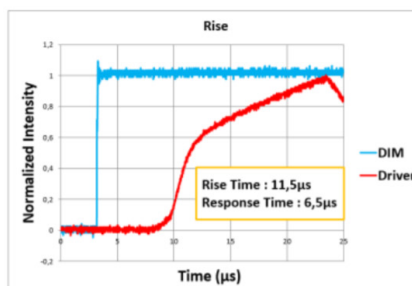
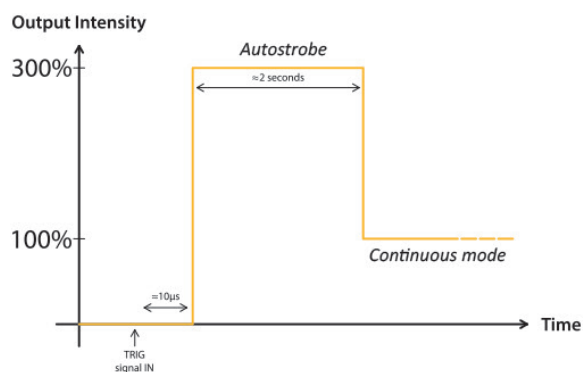


Connector pinout

The ELBC Series requires 24V DC input power. Note the trigger pin **needs to be connected** either to the 24V DC signal for Continuous mode or to a PNP Trigger signal for Overdrive strobe mode.

Connector pinout	Number	Color Contact	Designation
 M12 male connector	1	Brown	+24V DC
	2	White	N/A
	3	Blue	GND
	4	Black	PNP TRIGGER [trigger for rising edge] for Auto-strobe Light ON if $V_{PNP} > 3V$ DC (max 24V DC)

Autostrobe feature

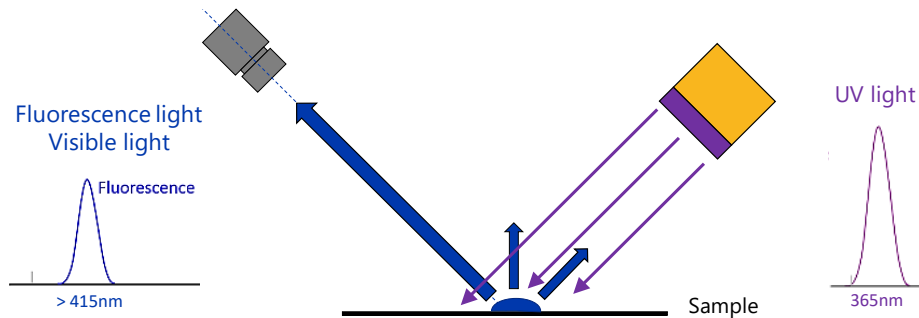


Note: Use a duty cycle lower than 30% in strobe mode.

TECHNOLOGY DESCRIPTION

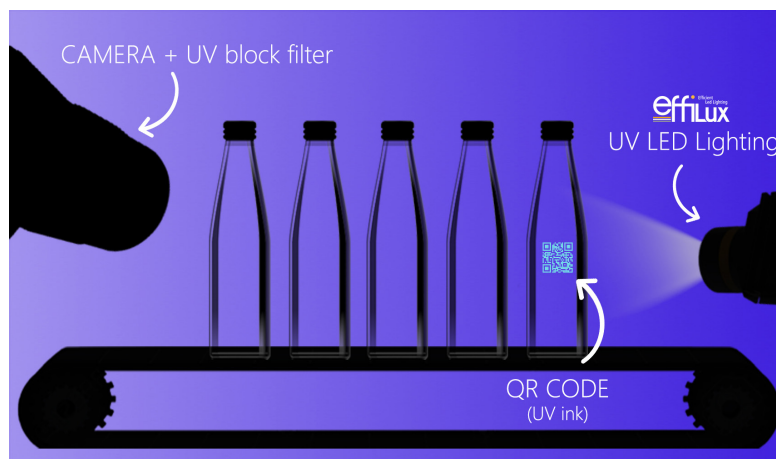
Fluorescence phenomenon

Fluorescence is the property of some materials to emit light when they receive a radiation. The radiation is absorbed at a specific wavelength (UV 365nm for example) and then re-emitted at a longer wavelength (Blue for instance). This phenomenon reveals **glue, ink, coatings** or any materials with UV **optical brighteners**.



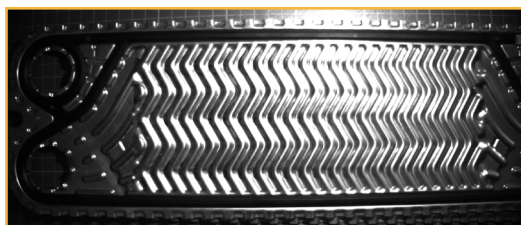
Pure UV™ technology

Pure UV™ fluorescence creates **greater contrast**, highlights specific materials where other lights may not, and **removes all glare**. For better results, the Pure UV™ Bar light should be used **along with a UV Cut filter** on the camera.

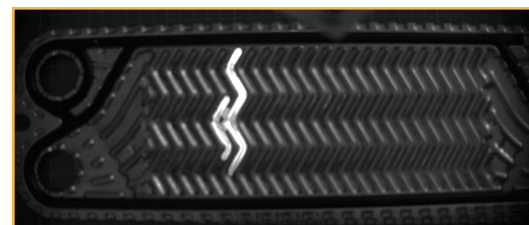


Combined with the Pure UV™ technology the resulting image has perfect contrast.

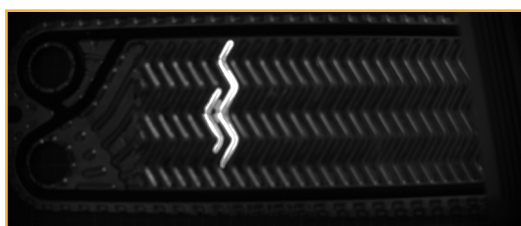
Example of resulting images



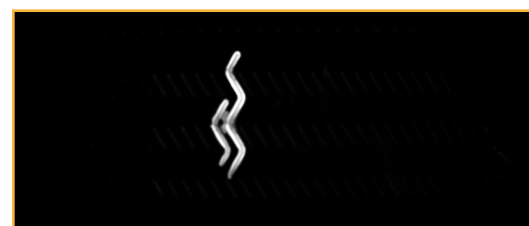
White Bar light



UV 365nm Bar light



UV 365nm Bar light
+
UV Cut filter



UV 365nm Bar light with **Pure UV™ Technology**
+
UV Cut filter

PRODUCT LINE UP

ELBC Series - Pure UV version - 100MM LONG

Series	Part Number	Color	Wavelength	Max Power Consumption		Connector	Weight	Optical Length (L _{op})
				Strobe	Continuous			
ELBC	ELBC-100PUV365	UV	365 nm	25W	9W	M12	500g	100mm

ACCESSORIES - CABLES

Part Number	Connectors	Length
ECB-2-FL	M12 Female to Flying lead	2m
ECB-5-FL	M12 Female to Flying lead	5m
ECB-10-FL	M12 Female to Flying lead	10m
ECB-2	M12 Female to M12 Male	2m
ECB-5	M12 Female to M12 Male	5m
ECB-10	M12 Female to M12 Male	10m

ACCESSORIES - UV SAFETY GLASSES

Part Number	Description
EL-GLASSES-UV	UV Safety Glasses

ACCESSORIES - CAMERA LENS FILTERS

Type of filter	Description
LP415	Long pass filter - 415nm
BP470	Band pass filter - 470nm
BN470	Narrow band pass filter - 470nm

Please contact your local representative to get more information and recommendations about filters.

CUSTOM - ON REQUEST

OPTIONS AVAILABLE ON REQUEST



EXAMPLE OF CUSTOM



UV RISK



This device generates UV radiation centered at 365 nm.

It is subject to the EN 62471:2008 standard which classifies optical sources into a risk group according to the potential biological photo hazard.

Because of the high UV emissions, the UV products belong to Group 3 (danger even for a momentary exposure) so special measures, detailed thereafter, must be respected.



Wearing protective equipment is mandatory to protect eyes and skin. The protective glasses must be compatible with standard EN 170 and must protect the eyes against the light rays that arrive directly or from the sides.

Recommended Minimum Protection: UVEX SCT-Orange Tint that reduces the fatigue of the eye by absorbing blue and green light and allowing the user to correctly observe the components during the drying or inspection process by absorbing 99.99% of the UV emission and visible light up to 532nm. CCS can provide protective glasses. Please contact your local representative.

EU DIRECTIVE



In accordance with EU machinery directive, EMC directive, and low voltage directive, machines and electronic devices not marked with the CE logo are subject to distribution restrictions within the EU. All EL Series products will maintain the EU mandate compatibility of our customers' machinery and electronic devices.

ROHS DIRECTIVE

All products from the EL Series comply with the RoHS Directive.

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