

# HIGH - PERFORMANCE BAR LIGHTS

Direct, universal illumination of most surfaces.  
Allows the use of Dark and Bright Field light sources depending on the distance and angle towards the scanned object.



- COMPACT DESIGN
- HOMOGENOUS LIGHT FIELD
- UNIVERSAL MOUNTING
- ROUGH, METAL HOUSING

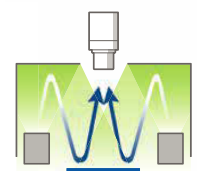
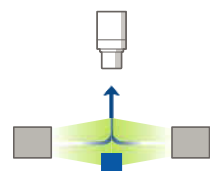
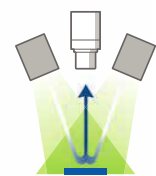
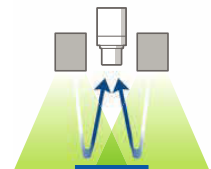
## CONFIGURATION

Ordering Code

<b>LL -</b>	<b>245</b>	<b>W</b>	<b>- II</b>
Linear Light	light length	wavelength	type

model series	active illumination area	wavelength	LED radiation angle
LL-245W-II	245 mm	white	80°
LL-245IR-II	245 mm	850 nm	80°
LL-245R-II	245 mm	623 nm	80°
LL-245G-II	245 mm	528 nm	80°
LL-245B-II	245 mm	470 nm	80°
LL-245UV-II	245 mm	400 385 365 nm	120°
LL-490W-II	490 mm	white	80°
LL-490IR-II	490 mm	850 nm	80°
LL-490R-II	490 mm	623 nm	80°
LL-490G-II	490 mm	528 nm	80°
LL-490B-II	490 mm	470 nm	80°
LL-490UV-II	490 mm	400 385 365 nm	120°
LL-735W-II	735 mm	white	80°
LL-735IR-II	735 mm	850 nm	80°
LL-735R-II	735 mm	623 nm	80°
LL-735G-II	735 mm	528 nm	80°
LL-735B-II	735 mm	470 nm	80°
LL-735UV-II	735 mm	400 385 365 nm	120°
LL-980W-II	980 mm	white	80°
LL-980IR-II	980 mm	850 nm	80°
LL-980R-II	980 mm	623 nm	80°
LL-980G-II	980 mm	528 nm	80°
LL-980B-II	980 mm	470 nm	80°
LL-980UV-II	980 mm	400 385 365 nm	120°

## WAYS OF USE



enables cascading / in-out connection

## BASIC ELECTRIC PARAMETERS

Model		LL-245W-II	LL-245IR-II	LL-245R-II	LL-245G-II	LL-245B-II	LL-245UV-II
Voltage Span	$U_n$	17-28 V	17-28 V	17-28 V	17-28 V	17-28 V	20-28 V
Nominal Voltage	$U_{im}$	24 V	24 V	24 V	24 V	24 V	24 V
Nominal Current	$I_{im}$	560 mA	550 mA	550 mA	550 mA	550 mA	500 mA
Max. Current	$I_{max}$	950 mA	950 mA	950 mA	950 mA	950 mA	950 mA
Trigger Voltage	$U_{trig}$	10-24 V	10-24 V	10-24 V	10-24 V	10-24 V	10-24 V
Trigger Current	$I_{trig}$	2,4 mA	2,4 mA	2,4 mA	2,4 mA	2,4 mA	2,4 mA
Input	P	13,4 W	13,2 W	13,2 W	13,2 W	13,2 W	12 W
Max number of lamps connected in series		4 pcs	4 pcs	4 pcs	4 pcs	4 pcs	4 pcs

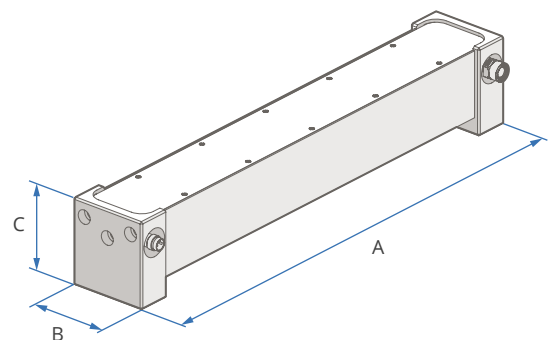
Model		LL-490W-II	LL-490IR-II	LL-490R-II	LL-490G-II	LL-490B-II	LL-490UV-II
Voltage Span	$U_n$	17-28 V	17-28 V	17-28 V	17-28 V	17-28 V	17-28 V
Nominal Voltage	$U_{im}$	24 V	24 V	24 V	24 V	24 V	24 V
Nominal Current	$I_{im}$	1120 mA	1100 mA	1100 mA	1100 mA	1100 mA	1000 mA
Max. Current	$I_{max}$	1900 mA	1900 mA	1900 mA	1900 mA	1900 mA	1900 mA
Trigger Voltage	$U_{trig}$	10-24 V	10-24 V	10-24 V	10-24 V	10-24 V	10-24 V
Trigger Current	$I_{trig}$	2,4 mA	2,4 mA	2,4 mA	2,4 mA	2,4 mA	2,4 mA
Input	P	26,8 W	26,4 W	26,4 W	26,4 W	26,4 W	26,4 W
Max number of lamps connected in series		2 pcs	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs

Model		LL-735W-II	LL-735IR-II	LL-735R-II	LL-735G-II	LL-735B-II	LL-735UV-II
Voltage Span	$U_n$	17-28 V	17-28 V	17-28 V	17-28 V	17-28 V	17-28 V
Nominal Voltage	$U_{im}$	24 V	24 V	24 V	24 V	24 V	24 V
Nominal Current	$I_{im}$	1680 mA	1650 mA	1650 mA	1650 mA	1650 mA	1650 mA
Max. Current	$I_{max}$	2850 mA	2850 mA	2850 mA	2850 mA	2850 mA	2850 mA
Trigger Voltage	$U_{trig}$	10-24 V	10-24 V	10-24 V	10-24 V	10-24 V	10-24 V
Trigger Current	$I_{trig}$	2,4 mA	2,4 mA	2,4 mA	2,4 mA	2,4 mA	2,4 mA
Input	P	40,2 W	39,6 W	39,6 W	39,6 W	39,6 W	39,6 W

Model		LL-980W-II	LL-980IR-II	LL-980R-II	LL-980G-II	LL-980B-II	LL-980UV-II
Voltage Span	$U_n$	17-28 V	17-28 V	17-28 V	17-28 V	17-28 V	17-28 V
Nominal Voltage	$U_{im}$	24 V	24 V	24 V	24 V	24 V	24 V
Nominal Current	$I_{im}$	2240 mA	2200 mA	2200 mA	2200 mA	2200 mA	2200 mA
Max. Current	$I_{max}$	3800 mA	3800 mA	3800 mA	3800 mA	3800 mA	3800 mA
Trigger Voltage	$U_{trig}$	10-24 V	10-24 V	10-24 V	10-24 V	10-24 V	10-24 V
Trigger Current	$I_{trig}$	2,4 mA	2,4 mA	2,4 mA	2,4 mA	2,4 mA	2,4 mA
Input	P	53,6 W	52,8 W	52,8 W	52,8 W	52,8 W	52,8 W

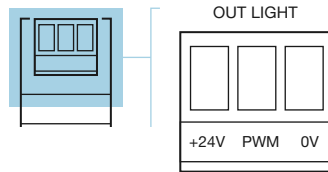
## DIMENSIONS AND WEIGHT

Model	A length (mm)	B width (mm)	C height (mm)	Active lighting area	Weight
LL-245...	285	46	50	245 mm	814 g
LL-490...	530	46	50	490 mm	1424 g
LL-735...	775	46	50	735 mm	2243 g
LL-980...	1020	46	50	980 mm	2860 g



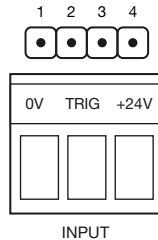
# CONTROLLER CM-01

Universal illumination intensity controller  
Trigger signal input



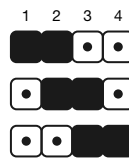
## TERMINAL BOX OUTPUT "OUT LIGHT" – LIGHT CONNECTION

- Terminal +24 V light positive pole
- Terminal PWM PWM signal
- Terminal 0 V light negative pole



## TERMINAL BOX INPUT "INPUT" – POWER SUPPLY AND CONTROL SIGNAL CONNECTION

- Terminal +24 V positive pole of 24 V DC Power Supply
- Terminal 0 V negative pole of 24 V DC Power Supply
- Terminal TRIG trigger signal from camera, PLC, etc.



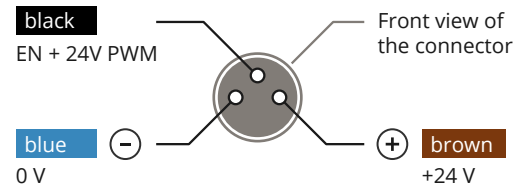
## CM-01 MODE OPTION

- 1 – 2 Enable – constant light
- 2 – 3 Not used
- 1 – 2 Invert trig – light during log 0 signal

## OVERALL BASIC INFORMATION

Technical data	
IP category	IP60
Protection Category	III
Ambient temperature	-20 – +40 °C
Isolation resistance	500 V
Housing material	Duralumin

## CONNECTOR PIN ASSIGNMENT



## ACCESSORIES INCLUDED

Transparent diffuser, diffuser with the opacity of 68 %, 5 m straight cable



clear 68%

## OPTIONAL ACCESSORIES

Polarized diffuser, 5 m angular cable



### Company Office

Smart View s.r.o.  
Nivy 313  
765 02 Otrokovice  
Czech Republic  
+420 601 575 797  
+420 602 457 497  
[info@smartview.cz](mailto:info@smartview.cz)  
[www.smartview.cz](http://www.smartview.cz)

### International Sales Slovakia

MTS, spol. s r.o.  
Krivá 53  
027 55 Krivá  
Slovakia  
+421 43 5819 111  
[mts@mts.sk](mailto:mts@mts.sk)  
[www.mts.sk](http://www.mts.sk)