



Powerful → 3.5 Millions Lux @ 5cm

Ideal for **high-speed applications** when **high brightness** is necessary

Electronics	Power supply	24V DC – 1.8 A – 45W (ELS-700) or 24V DC – 3 A – 70W (ELS-1000)
	Illumination mode	External trigger up to 15 kHz by analog voltage 0-24V or 0-5 V signal
	Connector	M12, 5 pins
	Power consumption	45 Watts @24V DC
Optics	Wavelength (nm)	365 / 395 / 405 / 465 / 525 / 625 / 850 / white (000)
Mechanics	Width and height	70.6mm x 65 mm x172 mm
	Weight	860g
	Material	Device body: Aluminum alloy
Thermal	Cooling system	Active air cooling with fan
Environment	Working temperature	0°C to 50°C
	Working humidity	≤ 80%
	IP code	IP40

Part Number



Reference: EFFI-SPOT-XXX- YYYYYYYY-ZZZ							
XXX : Wavelength (nm)							
● UV 365	● UV 395	● UV 405	● Blue 465	● Green 525	● Red 625	● IR 850	○ White 000 (T°= 5500 K ± 500 K)
YYYYYYY : Electronic version (If not specified, default ELS-1000)							
ELS-700 : 700mA				ELS-1000 : 1000mA (Not available for Red LED)			
ZZZ : Analog DIM Voltage (V) (if not specified, default 24V)							
24V	0V – OFF (0%)		4.5V to 24V – 20% to 100%			24V – ON (100%)	
5V	0V – OFF (0%)		1.5V to 5V – 20% to 100%			5V – ON (100%)	

Electronical considerations



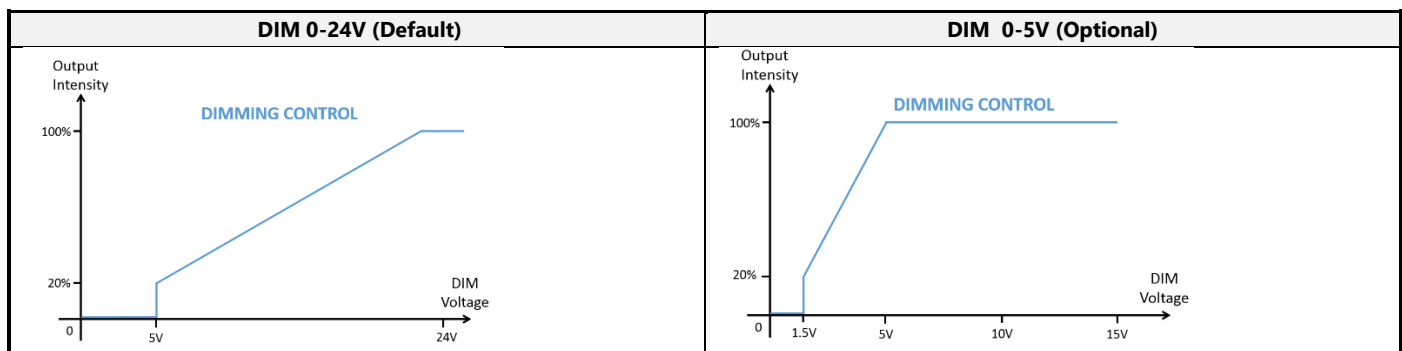
Contact arrangement

The EFFI-SPOT is supplied with a 24V constant voltage source (Using the DIM pin, the light intensity can be controlled).

M12 MALE CONNECTOR – OUTPUT				
Contact arrangement	Number	Color Contact	Designation	Signal
	1	Brown	+24V	Power supply DC
	2	White	Not used	Not used
	3	Blue	GND	Common ground
	4	Black	Analog Intensity Control - DIM	0 – 24V (or 0-5V) look at the graph below Consumption: 0,6mA@24V Rise time: 8 μs / Fall time: 12 μs Response time: 16 μs
	5	Grey	Not used	Not used



DIM behavior

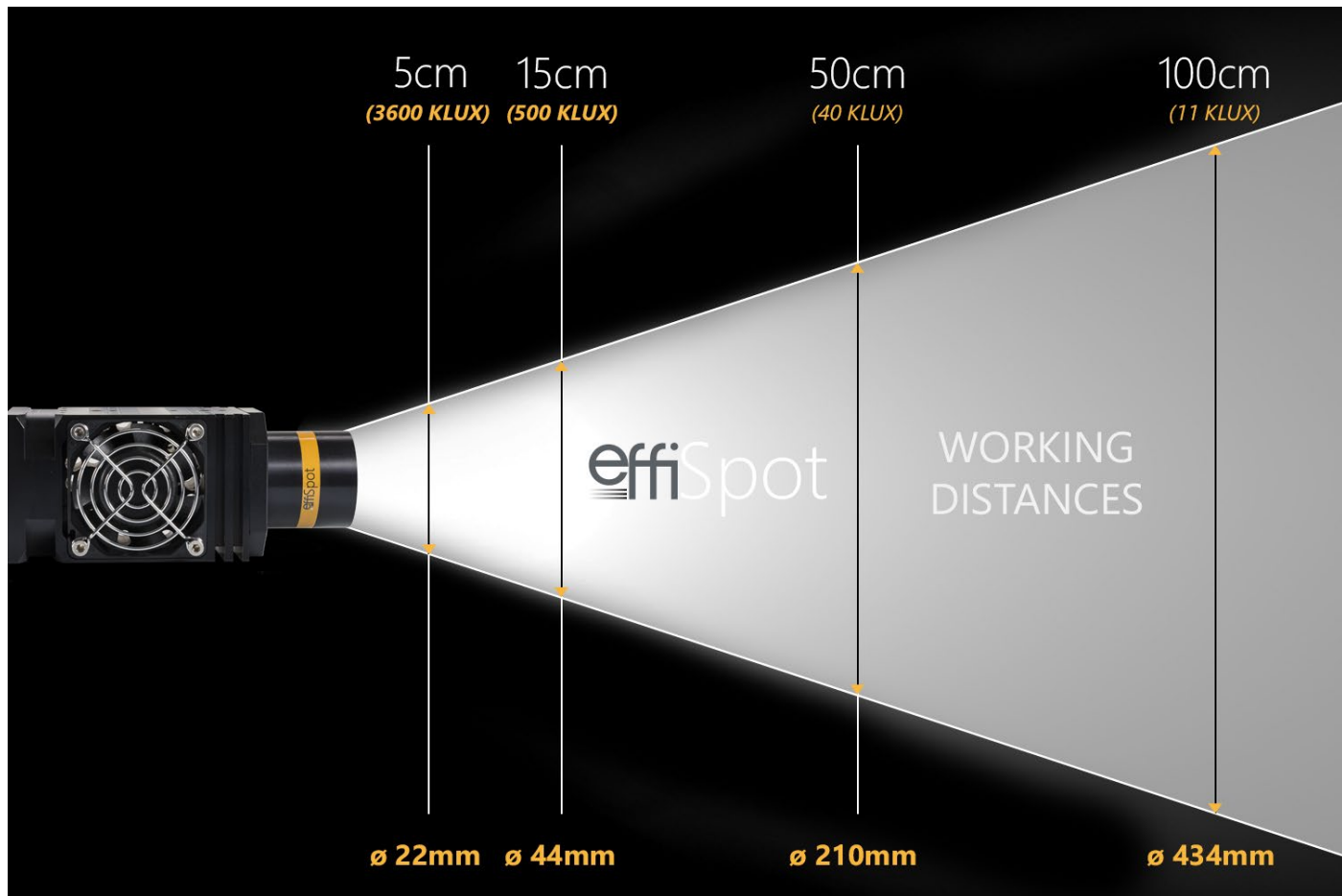


Optical considerations

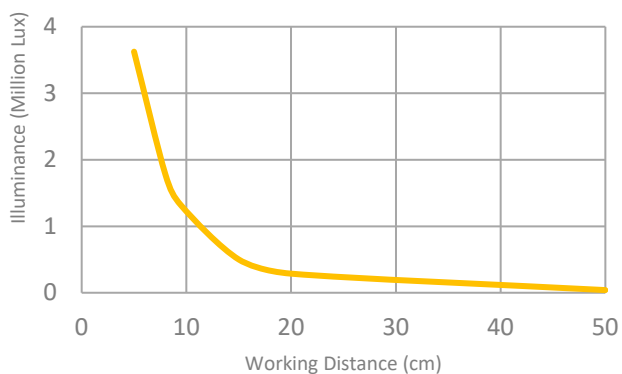


Illuminance for white version

Ideal working distance for EFFI-SPOT is **from 5 cm to 50 cm** (for higher working distance we recommend to use EFFI-SHARP).



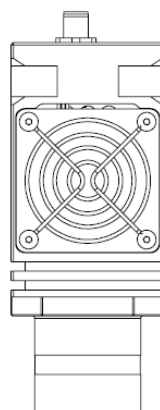
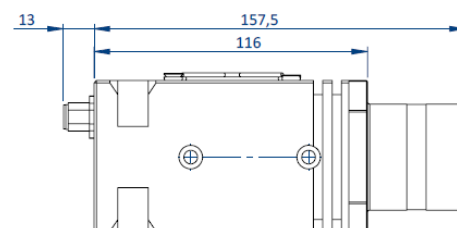
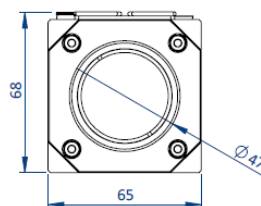
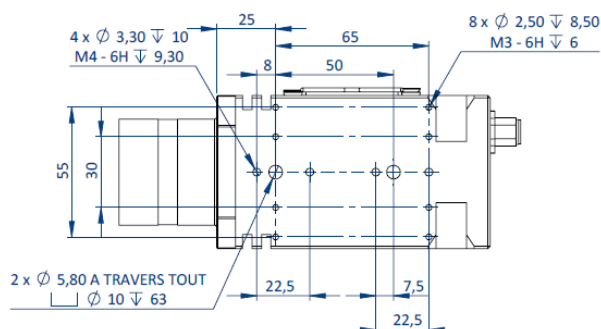
Illuminance for white version (Million Lux)
vs Working Distance (cm)



Spot Size vs Working Distance (cm)



Mechanical consideration (Dimensions in mm)



Do not cover the ventilation holes

Accessories (to purchase separately)



Mounting

To attach the EFFI-SPOT you can find:

- 8 M3x6 screw holes on one side
- 2 through holes with a diameter of 5,80 mm (suitable for M5)
- 2 M4x10 on each side (red circles)

→ Compatible with **EFFM-1-0009** & **EFFM-1-0027**

Picture	Mounting	Reference
	"Elcom" ball	EFFM-1-0009
	Adapter "tripod"	EFFM-1-0027

Power supply



Reference	Features
EFFI-PWR-100W-24V-102-XX	1 output - M12, 100W / 24V - 2A XX : Type of power outlet (UK, EU, US, ...)
EFFI-PWR-200W-24V-302-XX	3 outputs - M12, 200W / 24V - 8A XX : Type of power outlet (UK, EU, US, ...)

Cable



Connector	Length	Reference
M12 - Female 5 pins	2 m	EFFC-CAB-M12-F-5-D-L2
	5 m	EFFC-CAB-M12-F-5-D-L5
	10 m	EFFC-CAB-M12-F-5-D-L10
M12 - Female Male 5 pins (to be used with EFFI-PWR)	2 m	EFFC-CAB-M12-FM-5-DD-L2
	5 m	EFFC-CAB-M12-FM-5-DD-L5
	10 m	EFFC-CAB-M12-FM-5-DD-L10