



LED Floodlight

750 W - 6,000 W

System-Features

- Immediate On / Off
- Low heat emission
- High light yield
- Variable light distribution
- Long LED lifetime
- Daylight

Advantages

- No shutter required
- No warm up of specimen
- Good efficiency
- Very good homogeneity
- Low maintenance costs

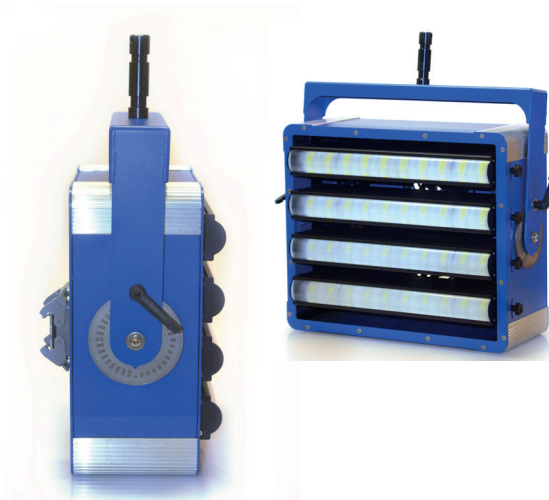
LED Floodlight 3000 W / 4500 W / 6000 W

The LED-Lighting system is developed for high speed photography applications e.g. crashtests. Maximum four LED-aluminium profiles with an integrated cooling system are mounted in a housing equipped with an air cooling system. The lamps are equipped with separate power supplies with an Input for Lamp On/Off and boost-mode with automatic timer control.

5 lenses with different beam angles allow for high flexibility. During adjustment of the crash setting the lamps run with low power. Prior to the actual crash, the lamps are switched in boost mode of 1500 W per channel for maximum 15 seconds.

Technical Data

Application	Sled- and block-test
Output power	3,000 W / 4,500 W / 6,000 W
Luminous flux continuous	max. 180,000 lm at 1,200 W
Luminous flux boost mode	max. 820,000 lm (15 sec.) at 6,000 W
Colour temperature	5,000K (daylight)
Beam angle	20°, 30°, 40°, 50°, 60°
Width x Depth	530 mm x 186 mm
Height	270 mm / 340 mm / 430 mm
Weight	14 kg / 18 kg / 23 kg
Ambient temperature	-10°C to +45°C



Illuminance at 3000 W / 4500 W / 6000 W (Lux in boost mode)

Available lens angle	Distance 1 m	Distance 2 m	Distance 3 m
20° x 75°	336,000 / 505,000 / 670,000	84,000 / 126,000 / 168,000	375,000 / 56,000 / 75,000
30° x 80°	312,000 / 468,000 / 624,000	78,000 / 117,000 / 156,000	34,700 / 52,000 / 69,400
40° x 90°	290,000 / 435,000 / 580,000	72,000 / 108,000 / 144,000	32,000 / 48,000 / 64,000
50° x 90°	264,000 / 396,000 / 528,000	66,000 / 99,000 / 132,000	29,500 / 44,000 / 58,800
60° x 90°	198,000 / 296,000 / 396,000	49,500 / 74,000 / 99,000	22,000 / 33,000 / 44,000

Power supply

Input voltage	400 V, 3-phase + N, 47-63 Hz
Output voltage	max. 52 V DC, isolated
Output current	max. 8 x 16 A (15 sec.)
Output power	max. 8 x 750 W (15 sec.)
Control	On/Off, Boost (15 sec.)
Protection class	I, IP 20
Dimensions (W x H x L)	483 x 148 x 420 mm
Weight	max. 26 kg
Ambient temperature	0 to +45°C

The power supply is of modular design and can be adapted to the particular lamp. The output voltage is galvanically isolated. The maximum eight outputs are current-controlled for the LED application. Harting connectors are used on both LED lamp and power supply. Additional four plugs are available for single channel connection.

LED Floodlight 1,500 W / 2,250 W / 3,000 W

The smaller LED-Lighting system was developed for high speed photography applications e.g. crashtests in automotive industry. Maximum four LED-aluminium profiles with an integrated cooling system are mounted in a housing equipped with an air cooling system. For more flexibility, different beam angles are available and the LED-profiles can be tilted. The lamps are equipped with separate power supplies with an Input for Lamp On/Off and boost-mode with automatic timer control. 5 lenses with different beam angles allow for high flexibility. During adjustment of the crash setting the lamps run with low power. Prior to the actual crash, the lamps are switched in boost mode of 750 W per channel for maximum 15 seconds.

Technical Data

Application	Sled- and airbag-test
Output power	1,500 W / 2,250 W / 3,000 W
Luminous flux continuous	max. 85,000 lm at 600 W
Luminous flux boost mode	max. 410,000 lm (15 sec.) at 3,000 W
Colour temperature	5,000K (daylight)
Beam angle	20°, 30°, 40°, 50°, 60°
Width x Depth	315 mm x 166 mm
Height	236 mm / 300 mm / 380 mm
Weight	9 kg / 11 kg / 14 kg
Ambient temperature	- 10°C to +45°C



Illuminance at 1500 W / 2250 W / 3000 W (Lux in boost mode)

Available lens angle	Distance 1 m	Distance 2 m	Distance 3 m
20° x 75°	164,800 / 264,500 / 328,400	41,200 / 61,600 / 82,100	18,300 / 27,400 / 36,500
30° x 80°	152,000 / 228,000 / 304,000	38,000 / 57,000 / 76,000	16,500 / 24,700 / 33,000
40° x 90°	132,000 / 198,000 / 266,000	33,000 / 49,500 / 66,500	14,700 / 22,000 / 29,500
50° x 90°	112,800 / 169,200 / 224,800	28,200 / 42,300 / 56,200	12,500 / 18,800 / 25,000
60° x 90°	78,000 / 116,800 / 156,000	19,500 / 29,200 / 39,000	10,700 / 16,000 / 21,400

Power supply

Input voltage	400 V, 3-phase + N, 47-63Hz
Output voltage	max. 52 V DC, isolated
Output current	max. 4 x 16 A (15 sec.)
Output power	max. 4 x 750 W (15 sec.)
Control	On/Off, Boost (15 sec.)
Protection class	I, IP 20
Dimensions (W x H x L)	483 x 133 x 420 mm
Weight	max. 26 kg
Ambient temperature	0 to 45°C

The power supply is of modular design and can be adapted to the particular lamp. The output voltage is galvanically isolated. The maximum eight outputs are current-controlled for the LED application. Harting connectors are used on both LED lamp and power supply. Additional four plugs are available for single channel connection.

LED Floodlight 750 W / 1,500 W

The LED-channels are part of the lamps on page 2 and 3 in this brochure. They are used for a dedicated illumination with a specific beam angle.

These lamps can be used in combination with the power supplies described on the previous pages.

Technical Data

	LED-Floodlight 750 W	LED-Floodlight 1,500 W
Application	Sled- and airbag-test	Sled- and block-test
Output power	750 W boost	1,500 W boost
Luminous flux continuous	22,000 lm at 150 W	44,500 lm at 300 W
Luminous flux boost	105,000 lm (15 sec.) at 750 W	200,000 lm (15 sec.) at 1,500 W
Colour temperature	5,000K (daylight)	5,000K (daylight)
Available lenses	20°, 30°, 40°, 50°, 60°	20°, 30°, 40°, 50°, 60°
Width x Depth x Height	280 x 100 x 175 mm	490 x 110 x 230 mm
Weight	2,5 kg	4,6 kg
Ambient temperature	0 to +45°C	0 to +45°C

Illuminance at 750 W / 1500 W (Lux in boost mode)

Available lens angle	Distance 1 m	Distance 2 m	Distance 3 m
20° x 75°	90,000 / 180,000	22,500 / 45,000	10,000 / 20,000
30° x 80°	82,800 / 166,500	20,700 / 41,600	9,200 / 18,500
40° x 90°	76,400 / 155,000	19,100 / 38,800	8,500 / 17,000
50° x 90°	69,200 / 138,400	17,300 / 34,600	7,700 / 15,400
60° x 90°	38,800 / 78,000	9,700 / 19,500	4,300 / 13,800

