



LED Floodlight

1500 W - 6000 W

System-Features

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

Advantages

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

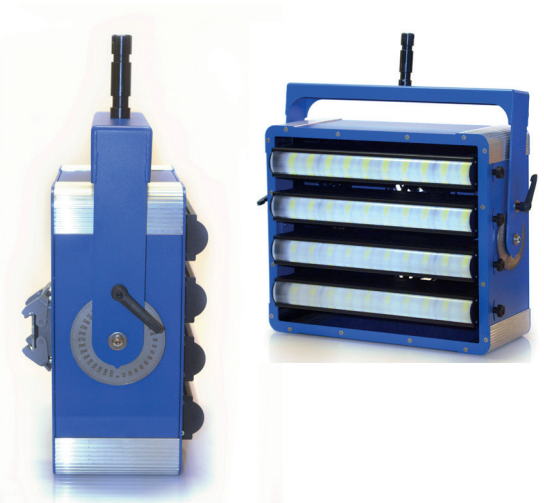
LED Floodlight 3000 W / 4500 W / 6000 W

The new 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	3000 W / 4500 W / 6000 W
Luminous flux continuous	max. 180000 lm at 1200 W
Luminous flux boost mode	max. 820000 lm (15 sec.) at 6000 W
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°	336000 / 505000 / 670000	84000 / 126000 / 168000	375000 / 56000 / 75000
30° x 80°	312000 / 468000 / 624000	78000 / 117000 / 156000	34700 / 52000 / 69400
40° x 90°	290000 / 435000 / 580000	72000 / 108000 / 144000	32000 / 48000 / 64000
50° x 90°	264000 / 396000 / 528000	66000 / 99000 / 132000	29500 / 44000 / 58800
60° x 90°	198000 / 296000 / 396000	49500 / 74000 / 99000	22000 / 33000 / 44000

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 1500 W / 2250 W / 3000 W

The new 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	1500 W / 2250 W / 3000 W
Luminous flux continuous	max. 85000 lm at 600 W
Luminous flux boost mode	max. 410000 lm (15 sec.) at 3.000 W
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°	164800 / 264500 / 328400	41200 / 61600 / 82100	18300 / 27400 / 36500
30° x 80°	152000 / 228000 / 304000	38000 / 57000 / 76000	16500 / 24700 / 33000
40° x 90°	132000 / 198000 / 266000	33000 / 49500 / 66500	14700 / 22000 / 29500
50° x 90°	112800 / 169200 / 224800	28200 / 42300 / 56200	12500 / 18800 / 25000
60° x 90°	78000 / 116800 / 156000	19500 / 29200 / 39000	10700 / 16000 / 21400

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 / 1500 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 1500 W
Application	Sled- and airbag-test	Sled- and block-test
Output power	750 W boost	1500 W boost
Luminous flux continuous	22000 lm at 150 W	44500 lm at 300 W
Luminous flux boost	105000 lm (15 sec.) at 750 W	200000 lm (15 sec.) at 1500 W
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°	90000 / 180000	22500 / 45000	10000 / 20000
30° x 80°	82800 / 166500	20700 / 41600	9200 / 18500
40° x 90°	76400 / 155000	19100 / 38800	8500 / 17000
50° x 90°	69200 / 138400	17300 / 34600	7700 / 15400
60° x 90°	38800 / 78000	9700 / 19500	4300 / 13800



Curing

Drying

Bonding

Potting

Measuring



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Operating parameters depend on production characteristics and may differ from the foregoing information.
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