MESSRING
Safer Mobility.

LED lamp for optimized illumination during high-speed image capturing. Synchronized operation with cameras allows for double light output. Turn-key solution for crash and sled test facilities.

- No warm-up or cool-down period – immediate maximum luminous power
- Test object not exposed to thermal radiation
- LED service life > 50,000 hours
- Compact design for various applications
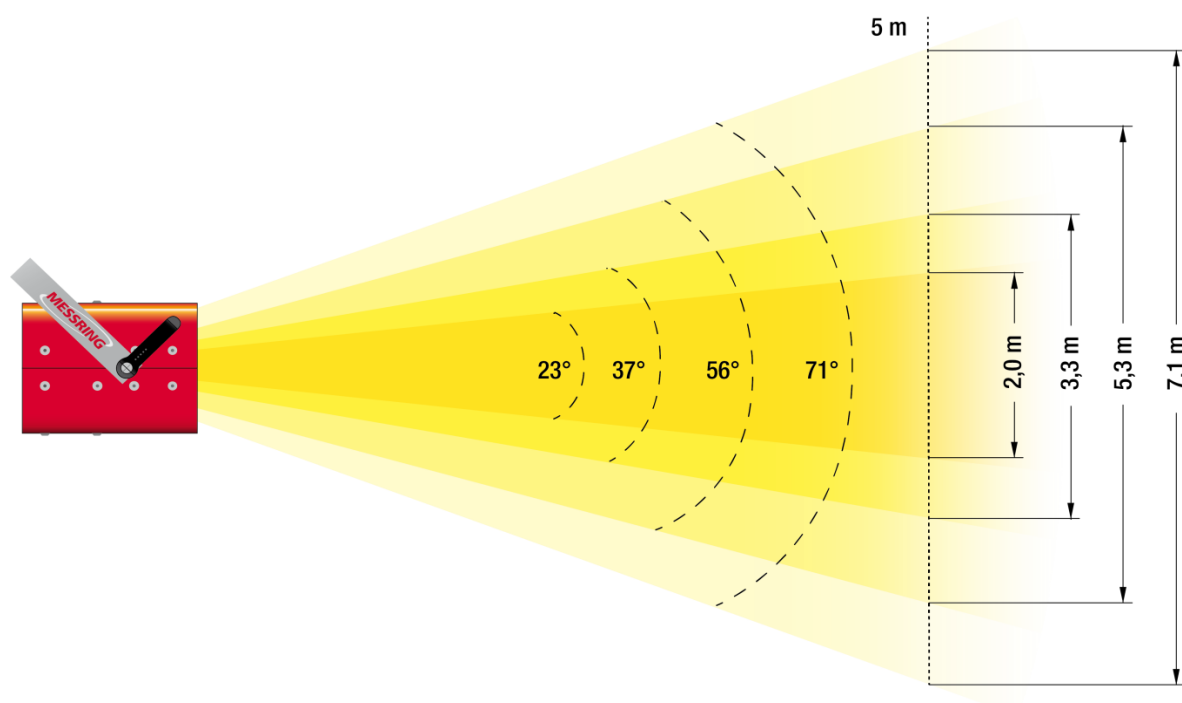- Available with four different beam angles

Figure 1: Available beam angles

Lens angle	Distance 1 m	Distance 2 m	Distance 3 m	Distance 4 m	Distance 5 m
23°	293,000	61,400	25,700	14,100	8,900
37°	127,300	27,500	12,000	6,400	4,000
56°	65,300	13,000	5,400	2,900	1,800
71°	52,700	11,000	4,700	2,600	1,600

Table 1: Illuminance (lux) examples

Please note: The above mentioned illuminance values are based on 100 % steady light operation mode. With synchronized mode the maximum reachable illuminance values can be doubled.

TECHNICAL SPECIFICATIONS

Beam angles	23°, 37°, 56°, 71°
Color temperature	6,500…7,100 K (daylight)
Nominal input power	1,150 W
Power supply	100…230 VAC, 50/60 Hz
Luminous flux (steady light mode)	75,000 lumen
Luminous flux (synchronized mode)	150,000 lumen
Adjustable light output (steady light mode)	0…100 %
Adjustable light output (synchronized mode)	Up to 200 %
Max. frame rate (steady light mode)	No limitation (flicker-free)
Max. frame rate (synchronized mode)	Up to 25,000 fps Adjustable flash duration: 20…500 µs
Dimensions (L x W x H)	213 mm x 251 mm x 147 mm
Weight	6.4 kg
Ambient operating temperature	Unlimited continuous operation up to 34°C Under certain conditions up to 50°C
Cooling system	Temperature controlled fans
Communication interface	Serial bus (differential signal with automatic bus termination)
Eye safety classification	DIN EN 62471 RG2

Scope of supply
- M=LIGHT LED
- Power cord (2 m)
- Cat. 6 Ethernet cable (3 m)

Options / Services
- M=LIGHT Connection Set (further information on request)
- M=LIGHT Bus-Splitter (separates communication and synchronization signals)
- Can 2 USB/Ethernet PC-interface
- M=LIGHT control software
- Consultation and design of customer-specific turn-key lighting systems