

## **(R)Evolutionary LED lighting for high-speed imaging - M=LIGHT Evo**

**MESSRING introduces new high-performance LED lighting / The new development delivers twice the luminous flux at the same connected load**

**Munich, 12. Aug. 2021** - The M=LIGHT Evo from the German experts for safer mobility is a real quantum leap for efficient illumination and film documentation of crash testing. Indeed, MESSRING has succeeded in doubling the light output of the M=LIGHT Evo compared to its proven predecessor: with a connected load of 1,150W, the 48 highly efficient LEDs provide a luminous flux output of 120,000 lumens in standard mode and can be increased to up to 260,000 lumens in flash mode. All this at a constant power input and available in continuous operation.

### **Controllable, adaptable and reproducible**

As a rule, for different crash test scenarios, areas between 8 and 24 m<sup>2</sup> must achieve an average illuminance of approx. 100,000 to 120,000 lux to meet the extremely short shutter speeds of high-speed cameras for high-quality recordings. With the new generation of M=LIGHT, powerful and flicker-free lighting with daylight color temperature can be ensured with significantly fewer lamps. In flash mode, the M=LIGHT Evo unleashes its full power; the microsecond-accurate flash frequencies - with up to 25,000 fps - are stepless adjustable between 20 and 500 µs and deliver even more than double the light output in the peak ranges. Thanks to the synchronization of lamp and camera shutter, light is available exactly when it is needed. This ensures consistent exposure of images even at high frame rates.

"LED lighting has become the industry standard when it comes to high-speed imaging, and the advantages over tungsten and gas discharge lamps are clear: immediately available and controllable light output with no warm-up and cool-down phases, no heat radiation to the test object, and 24/7 available performance," states Wolfgang Rohleder, Head of Sales at MESSRING GmbH, and further explains "The appropriate illumination allows to fully utilize the potential of modern cameras and to deliver better images. Developers thus gain valuable insights for the further development of safety solutions. The M=LIGHT Evo unlocks a new level in this segment. We paved the way with the first M=LIGHT LED almost ten years ago, and now we are taking the next step by again offering a future-proof premium solution for crash facility operators worldwide."

### **Modular and compatible**

The M=LIGHT Evo is available with beam angles of 37°, 56° and 71° and can be adapted to a wide variety of facility situations and applications. Whether large-area car-to-car tests involving large lamp groups on movable light frames or airbag deployment tests with a smaller test setup, thanks to the modular connectivity using the daisy chain method, optimum lighting intensity is always feasible. In addition, the M=LIGHT Evo is fully compatible with the predecessor model M=LIGHT LED.

## Images:



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## About MESSRING:

MESSRING GmbH is the world market leader for crash test technology. Based in the southwest of Munich, the mid-sized company's product offerings range from the realization of large, turnkey and multifunctional crash test facilities to the delivery of compact crash simulation test systems. In close cooperation with automotive engineers and manufacturers, MESSRING develops application specific solutions that enable the automotive industry to test their active and passive vehicle safety systems. With more than 130 employees and over 140 crash and sled test facilities installed worldwide, MESSRING has been contributing to making traffic and transportation safer for over 50 years.

As a pioneer in the field of passive safety, MESSRING has set itself the goal of also playing a leading role in active safety. For this reason, MESSRING Active Safety GmbH was founded in 2018, whose core competence is in the development of test systems for driver assistance systems and autonomous vehicles.

Further information can be found at [www.messring.de](http://www.messring.de).

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