

For reliable measurement, control and indication of rotational speeds



# rolux hand-held stroboscope

Our tried and tested  
rolux hand-held stroboscope – now  
with many additional features.

**increased** illuminance

**increased** focus

**increased** battery runtime

**increased** service life

**extended** mains operation





**With rolux you're in control:  
The intelligent device for better results.**

Good things come of small bulbs. Thanks to its extremely powerful lamp, rolux delivers a massive illuminance of about 1200 Lux, giving you a brilliantly illuminated and sharply defined test image. This powerful technology, involving rapid machine cycles, enables you to carry out observations and to document findings easily on the "static image". When quality control checks are being carried out, sources of errors can be identified quickly and easily.

**rolux cuts flash duration times by half.  
The result: a really sharply defined image.**

The new generation of rolux has a flash frequency of 9 μ seconds which is more than twice as fast as the previous model (20 μ seconds). Since quickly moving objects "cover" a shorter distance in 9 μ seconds than in 20 μ seconds, the result is a much sharper flash image, revealing every detail.

**The fascinating rolux measurement principle:  
the "frozen movement".**

The rolux hand-held stroboscope is ideally suited for carrying out exact checks, observations, examinations and documentation of the behaviour of materials, systems and devices operating at high rotational speed or vibrating while they are actually in operation. Switch the device on and direct the flash at a rotating, vibrating or rapid cycling object. By moving the scroll wheel or using the external trigger function, you alter the flash frequency. As soon as you align the flash frequency and movement frequency, the rotating, vibrating or rapid cycling object suddenly "freezes". All the moving parts on the static image are now clearly visible even though they are moving.



Example of application: Functional check of a circular knitting machine during running operation.

Using the scroll wheel you bring the flash frequency of your rolux into alignment with the movement frequency of the knitting machine. The excellent illumination of the measuring surface and the imaging, which slows down the sequence of movements, now allows you to check that guides, rollers and needles are working correctly.

Example of application: Checking the vibration resistance of components on a vibrating table.

In order to detect their weak points at an early stage, electrical components, plug-in connections and mechanical components are tested on a vibrating table for their vibration resistance. The frequency of the vibrating table and the flash frequency are synchronised by means of the trigger input. Components that move at the set frequency appear static. Components that are now still moving are vibrating at a different frequency.

**Operating rolux is simplicity itself, leaving you to concentrate on key tasks.**

Using the intelligent scroll wheel, which reacts to your movements, you can adjust the exact flash frequency or change the frequency range rapidly and precisely. With just one hand. And the results are displayed with the accuracy of digital technology in the LCD (Liquid Crystal Display).

**With rolux you do not have to work twice as long, but you could.**

The astonishing power of this handy little device enables it to cope with all demands placed on it. But what is more astonishing is how long it can run on one charge. rolux is equipped with state of the art lithium-ion battery technology, which enables you to work almost twice as long as before on one charge. What's more, lithium-ion batteries last longer and are easy to charge. rolux is also available with a mains-power supply unit.

**Hand or tripod operation, battery or mains: rolux is extremely versatile.**

rolux can be operated continuously on the mains. The power supply unit is powerful enough to operate the device and charge the battery\* at the same time. rolux has a multi-range power supply unit and the adapters provided make it compatible with mains power supplies throughout the world – from 100 to 240 watts. By mounting rolux on a stand, you can create stable light conditions for photographs and long-term observation.

**rolux doesn't just improve your working conditions. It also reduces your operating costs.**

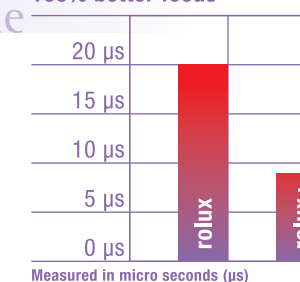
The improved rolux pocket strobe uses a high-performance xenon flash tube which delivers twice as many flashes as the previous model: at least 200 million instead of 100 million flashes. In other words: it lasts longer. It has been tested under laboratory conditions in continuous operation at 6000 flashes per minute.

\*Only available with rolux with battery and mains power supply units

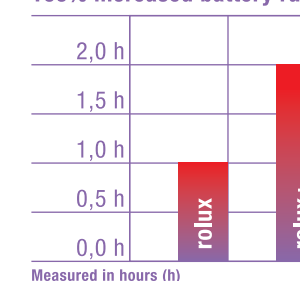
50% more illuminance



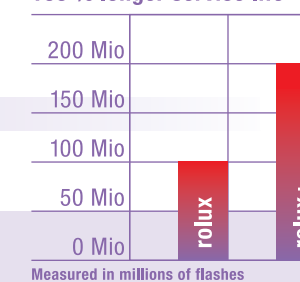
100% better focus



100% increased battery runtime



100 % longer service life



**Specification**

General Parameters	
Range:	30 ... 12,500 FPM (flashes per minute)
Accuracy:	+/- 0,01 % from Display +/-1 digit
Resolution:	+/-1 FPM
Repeatability:	+/-1 FPM
Display:	5 Digit LCD
External Trigger Input:	0 ... 5 V DTL/TTL compatible 3,5 mm / 1/8" standard connector Uout = 7,2 V unregulated
Line Power Input:	100 ... 240 V, 50/60 Hz incl. 4 area connector pins

**Flash Tube Parameters**

Longevity:	200,000,000 flashes (@ 6,000 FPM)
Flash Duration:	< 9 μs
Light Emission / Range:	1,200 Lux / 20 cm / 8" (@ 4,500 FPM)
Flash Colour:	6,000 ... 6,500 K
Flash Energy:	Max. 170 mJ

**Battery Specification \***

Battery rechargeable:	Lithium Ion Battery Pack
Continuous Use Time:	> 2h @ 1,500 FPM on 23°C / 73° F
Battery Protection:	Yes
Recharging Time:	approx. 5 h
Overload protection:	Yes

\* valid only for Rolux with battery pack

**Housing**

Material:	ABS
Size:	240x65x40 mm / 9,75 x 2,75 x 1,75 inch
Weight:	415g (300g AC only, without battery pack)
Certifications:	CE

**Ambient Conditions**

Ambient Temp:	0 ° ... 40 °C (32° ... 114°F)
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Scope of delivery: rolux hand-held stroboscope for battery and mains operation\*, Carrying case with operating instructions and test certificate, Battery charger with adapters for different countries, Trigger signal plug

Accessories: Clip-on tool pouch, Replacement xenon lamp, Stand  
\*Also optionally available with a mains-only power supply unit



**Scope of delivery**



**Accessories**





## inside

We are well-known as specialists in the field of producing systems and devices for measuring and controlling rotational speeds, vibrations and systems with rapid machine cycles. What is less well known is the basis of our success.

RHEINTACHO is a family-owned business, a status we intend to retain. We adopt family values at work, too, in the form of an integrative approach in which every employee is included and treated as an equal.

In this atmosphere of inclusion and trust our employees feel secure and in good hands. Our employees are a handpicked team, in which every member has a high level of technical skills and a sense of responsibility.

Flat hierarchies, direct channels of communication and a style of communication where all parties are treated as equals. By adopting this approach we can give our undivided attention to achieving our principal aims: customer satisfaction, innovation, flexibility, quality, efficiency and growth.

It is our goal to provide the best product for measuring and controlling rotational speeds for all our customers' requirements at all times and at a competitive price. And this includes all the additional factors required to meet that goal: the full cooperation of all team members, reliability and continuity.

Because we continuously succeed in meeting this goal, we carry out our work with joy and passion, even at stressful times. We want to continue to grow in this way, harmoniously and sustainably, increasing, as we grow, the size of our workforce, our turnover, the range of innovations we create and the challenges we overcome.

Put us to the test.

The challenges of our industrial customers have always been the driving force behind our developments. With standardised and customised solutions, which are technically equal to the best solutions of their time, we are not just part of a solution but initiators of progress, too.



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Subject to technical changes.

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