RHEIN TACHO

Pocket Strobe™

rolüx

800 lux

The flash package
Incredibly handy,
extremely bright

rolux Pocket Strobe™

Persuasively handy

Intelligent power management and practical functionality make this the David among the stroboscopes. At barely a quarter of the size of ordinary stroboscopes, the Pocket Strobe™ can be operated with one hand, making it easy to measure even in hard to access locations.

LCD

The LCD displays the current flash rate with digital accuracy, as well as indicators which shows when the strobe is operating in external mode and shows a low battery condition a few minutes of operating time remaining

Dynamically adjustable flash rate

The intelligent adjustment wheel monitors the speed at which the user is rotating it and changes the flash rate accordingly. This makes it extremely easy and quick to set a precise flash rate throughout the Pocket Strobe range.

High adjustment accuracy and stability

Each measuring instrument is supplied with a test certificate which verifies its high quality and accuracy. Once the flash rate is set, forget it! It will not drift!

Tripod connection

Using a standard tripod, you can create stable strobe-light conditions for taking photographs and making observations.

Automatic triggering

If you connect an external trigger signal, the device automatically synchronises the flash sequence to this signal.

High-performance battery pack

The device uses environmentally friendly NiMH rechargeable batteries, provide high charge capacity that is stable over many charging cycles. With the battery pack completely charged, you can operate the device for at least an hour regardless of the flash rate.

Automatic charging system

The battery charger features a wide range power input permitting it to be used worldwide. The microprocessor-controlled Battery Charger has several automatic functions such as quick charge, overcharge protection and trickle charge functions maximizing the useful life of the NiMH battery pack.

...and intense

The power-optimised electronics combined with a powerful Xenon flash lamp achieve significantly higher light output at lower power consumption compared to conventional systems. Therefore, despite its small size, the Pocket Strobe performs at the same level of performance as the larger stroboscope alternatives.
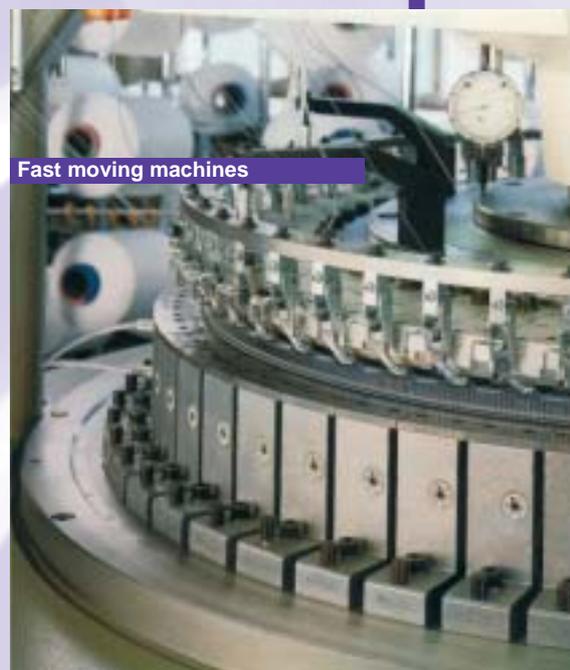
Static in movement as a measuring principle

The **rolux** Pocket Strobe™ measures and tests rotation and vibration movements. It achieves its results entirely without interfering in the system you are testing. If the flash frequency of the stroboscope lamp corresponds to the movement frequency, the test object appears motionless. If the flash frequency deviates from the movement frequency slightly, the object appears to move slowly at the difference in frequency.

Rotating parts

System checks without stopping production

The device determines the speed of rotation or frequency of oscillation when it is not possible to interfere with the system, for example, during a production run, in difficult to access places or with especially sensitive systems. Furthermore, you can use it to slow down fast moving objects or processes, drift measurement, detection of undesired harmonic resonance in devices and machine parts or unbalance conditions. The Pocket Strobe™ also has numerous applications in checking fast cyclical processes.

Vibrating systems

Fast moving machines

Example applications include: Motors, turbines and pumps; fans, mixers and centrifuges; paper, film and textile production systems; vibration measuring tables, jigging seives and oscillating sieves.

Specification

Display Parameters	
Range	30 ... 12500 FPM (flashes per minute)
Accuracy	+/- 0,01 % from Display +/-1 digit
Resolution	+/-1 digit
Repeatability	+/-1 digit
Display	5-digit LCD-Display

Flash Tube Parameter	
Use	Rechargeable Battery
Flash Duration	< 20 µs
Light Emission / Range	800 Lux / 20 cm / 8"
Flash Color	6000 ... 6500 K
Flash Energy	max. 150 mJ

Electrical Specification	
Power source	Rechargeable Battery
Continuous Use Time	min. 1 h over 30 ... 12.500 FPM on 23°C/73°F
Battery Protection	yes

External Trigger Input	0 ... 5 V DTL/TTL compatible 3,5 mm / 1/8" standard connector U_{out} = 7,2 V unregulated

Charger, Battery type	
Line Power Input for recharging	100 ... 240 V, 50/60Hz
Battery type	NiMH rechargeable Battery
Recharging Time	max. 3,5 h
Overload protection	yes
Trickle charge	yes

Housing	
Material	ABS
Size	240 x 65 x 40 mm / 9,5 x 2,5 x 1,5 inch
weight	465 g

Ambient Conditions	
Ambient Temperature	0°C ... 40°C (32° F... 104°F)

Certifications	
Printed CE-Conformity on request	

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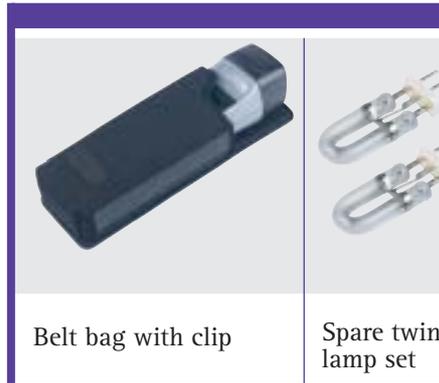# rolux Pocket Strobe™

Scope of delivery:

Device case with operating instructions and test certificate

Battery charger with 4 country adaptors

Trigger signal plug

Accessories:

Belt bag with clip

Spare twin lamp set

Die Rheintacho Messtechnik GmbH

is a flexible, highly-efficient partner – wherever speed must be measured, monitored or controlled. Innovation, the most modern production techniques and equipment, meticulous quality control along with a first-class workforce are the corner stones of our company.

For the past 100 years, Rheintacho has used our extensive knowledge and experience to developed sensors, systems and customized solutions to meet our customer's requirements in a professional, cost-effective manner. Shown on the right, are several other products in our complete product range.

Non-contact speed sensors

These enable speeds to be read with the highest accuracy in the most severe environment. Depending on the application, we can offer sensors with various measurement principles in a wide variety of styles and connection types.

Hand-held instruments

Rheintacho's tried and tested hand-held instruments record rotational speeds and running length. There is a choice of non-contact measurement by means of light and a reflective mark applied on the object to be measured, or contact measurement with special attachments for various applications.

Speed Monitor

The programmable speed monitor observes the movement of motors, machines, and systems. Because of its variety of functions and its variable programmable options, the speed monitor is flexible enough to fit in with various system requirements.

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