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Date: January 2017  
Created by: Wolfgang Sexauer  
Tel: +49 (0)761 4513 139  
E-mail: sexauer@rheintacho.de



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Press release

## **Portable stroboscope with auto-sync laser function Innovative extension of RHEINTACHO stroboscope range**

Just imagine, to direct the strobe light on the object. And ultimately see the movement frozen. Without turning knobs or pressing buttons for the manual adjustment. Just an operator's dream?

No - not any longer with RHEINTACHO's auto-sync!

The portable LED stroboscope RT STROBE super qbLED is the perfect supplement to the existing product line.

This hand-held stroboscope, which is exceptionally bright thanks to its 118 high-power LEDs, has an outstanding technical highlight, for which RHEINTACHO has applied for a patent. This is the auto-sync laser function. By means of a far-reaching transmission/reception system based on lasers, the flash rate of the stroboscope is synchronised automatically. The system operates to a distance of up to 3 metres, depending on ambient conditions.

How does this auto-sync laser function exactly work?

A laser beam sent from the stroboscope is reflected by a reflective tape back to the receiving cell on the front side of the stroboscope. As a result, the control of the stroboscope calculates the rotation rate of the object, feeds in the flash frequency of the stroboscope and outputs it again as a precisely measured value. Through this integrated optical tachometer/stroboscope, this value is absolutely precise and reliable in terms of process. Fluctuating rotational speeds are not a problem. Through the instantaneous control of the flash rate, the user always has the benefit of redundant detection.

The uniqueness of the auto-sync laser function is based on the integration of the laser unit in the stroboscope. The practical implementation of this integration is not trivial, since, in addition to the reflection of the laser, the receiving unit is also interfered by the reflection of the flash of the stroboscope. Due to smart control design, the extremely bright flashes are not affecting a clean and reliable detection of the laser reflection in any way.

### **RHEINTACHO Messtechnik GmbH**

Waltershofener Straße 1 · D-79111 Freiburg  
Tel +49 (0)761 4513 0 · Fax +49 (0)761 445 274  
info@rheintacho.de · www.rheintacho.de

### **RHEINTACHO UK LTD** (formerly Foundrometers Instrumentation Ltd)

Enterprise Court, Pit Lane, Micklefield, Leeds, LS25 4BU · UK  
Tel +44 (0)113 287 4411 · Fax +44 (0)113 287 4422  
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For applications in which the reflective tape cannot be attached directly to the object under observation, an auto-save function has been added. Thereby, similar to the focus lock on a photo camera, the speed at a position of the system which rotates with a similar to equal speed can be taken down, and this frequency can then be used for further observation on the position of the system which is actually to be tested.

More intelligent and useful control functions are easily forgotten in comparison, but they are absolutely worth mentioning. As a result, all RHEINTACHO STROBE qbLED stroboscopes include the option to save the setting parameters on the "memory function" for various applications and to then load them again for later inspection tasks.

Since these still non-exhaustive lists of functions are not necessary for various applications, RHEINTACHO employs a 2-stage operating concept. Users can choose between a standard and a professional mode. This allows users to choose between a simple or a complex operation tailored to their specific use of the device. The range of setting options in the professional mode leave the user with nothing to be desired: brightness which is absolute ( $\mu\text{s}$ ) or relative (degrees), trigger divider, trigger multiplier, phase shift/deceleration which is absolute (ms) or relative (degrees), slow-motion automatic, and trigger edge are selectable.

### **“Freeze” and check vibrations**

A signal amplifier is available as a new optional accessory for all RT STROBE qbLED stroboscopes. This enables vibration test rigs, for example, to be connected to the stroboscope. The stroboscope will then flash automatically with the vibration frequency. As a result, the vibrations of the objects located on the test bench are visible and interpretable to the human eye. With the aforementioned features, the stroboscope can also be parameterised continuously.

The RT STROBE super qbLED stroboscope, which weighs just over 1 kg, is delivered in a functional and robust case. Handle, calibration certificate, battery charger with plugs, trigger plugs and reflective tapes are also included. Thanks to the integrated lithium-ion batteries, the stroboscope can be operated for up to 7 hours without a break.

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## LED Stroboscopes for stationary use

This was also a significant factor in the development of the stationary LED stroboscope series. In view of new possibilities regarding control and durability of the illuminates, light output and focus were especially concentrated on. The stationary LED stroboscopes are now available from stock in the sizes RT STROBE 3000 LED – 5000 LED – 7000 LED and 10000 LED.

## Wide range of products

This wide variety of models ranging from 80 to 480 high-performance LEDs is responsible for light intensity from 6000 to 14000 LUX and an illumination width from 300 to 1000 mm. In addition, the intelligent selection and geometric arrangement of the appropriate LEDs leads to a very homogenously illuminated surface. All stationary stroboscopes can also be cascaded and operated simultaneously.

For variable control of the complete product range of stationary stroboscopes, users have additional control possibilities at their disposal. These are the external control unit called RT STROBE control and RT STROBE eco control. While the external control unit RT STROBE control is suitable for many different tasks, the eco control focuses on quick determination of flash frequency. With this system, the flash rate can be increased or decreased by turning the control knob, which makes it an easy-to-use alternative to the more complex RT STROBE control unit.

## Recording, displaying and controlling high-speed processes

RHEINTACHO Messtechnik GmbH, offers a large portfolio of stationary and portable stroboscopes for various products in the label printing industry to be used for measuring within the machine environment. A good reason to present our company and our products in more detail.

The family-run business in its third generation has its headquarters in Freiburg, Germany with over 75 employees. It is a specialist in the field of rotational speed measurement. RHEINTACHO offers a large range of rotational speed sensors using different measuring principles, hand-held tachometers, which in addition to rpm also measure speed and running lengths, rotational speed monitors which are variably programmable and versatile as well as very bright stationary and portable stroboscopes. Another specialty of RHEINTACHO are customer-specific solutions for various requirements and applications, which are realized quickly and innovatively due to their own development, production and assembly departments.

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RHEINTACHO stroboscope

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