



## HELIO-STROB master

... caters for all needs



- high and constant brightness
- pin sharp images
- easy to operate via touch panel
- internal and external triggering
- TTL-output
- slow-motion function
- electronic shifting of the focus (phase shifting)
- dimmer function
- serial interface (USB)

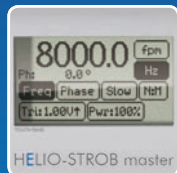
# HELIO-STROB master

## Applications

By means of extremely short flash impulses the HELIO-STROB master allows the observation of very rapid processes with the naked eye. It provides pin sharp images of the apparently stationary object: the "stroboscopic effect". All functional adjustments can comfortably be set via the touch panel and the twist knob. When analysing fast processes such as rotation or vibration the standard features "slow motion" and "position" (phase shifting) put even the smallest detail into perspective. The finely graduated dimmer function allows an adjustment of the light intensity and thus enables fatigue-free observation to the smallest detail. The flash frequency can either be controlled by the accurate internal trigger, by an external trigger or even by mains synchronous triggering. Thanks to the integrated prescaler external impulses are processed up to a frequency of 8000 Hz\*.



Data exchange via USB interface



External triggering up to 8000 Hz\*

Proximity switches and optical sensors can directly be connected to the stroboscope. Other promising new features allow the adaptation to individual gear ratios – even those of variable transformation ratios. The serial interface allows a direct communication to the PC – thus all parameters can be remotely controlled and exported. Using the "hotkey" function the new software "SpeedDoC" transmits the current measuring value to the corresponding cursor position in your test report.



## Technical Data

Power supply	115/230 VAC, 50 – 60 Hz
Power consumption	approx. 150 VA
Housing	metal case with handle / support 280 x 240 x 80 (mm)
Hand lamp	182.5 x 117 x 117 (mm)
Weight	approx. 2.8 kg (control unit) approx. 1.5 kg (hand lamp)
Light source	flash tube, plug-in installation
Frequency range in Hz/min <sup>-1</sup>	1 – 315 Hz/60 – 18900 min <sup>-1</sup>
Internal control of the flash rate	twist knob and touch panel
External control of the flash rate	external transducer, pos. impulses, 50 mV – 30 V, input frequency 8000 Hz* max., variable transformation ratio 1:10 – 10:1
Measured value display	LC display, 64 x 36 mm, display in Hz/min <sup>-1</sup>
Resolution of the display	up to 0.01 Hz/0.1 min <sup>-1</sup>
Phase shifting	0° – 540°/0 – 999.99 ms
Slow motion function	beat frequency -5.00 Hz up to +5.00 Hz
Serial interface	USB (type B)
Light output	3.0 Ws max.
Light intensity	9600 Lux max. (at a distance of 50 cm)
Operating temperature	0° ... +40° C
Storage temperature	-20° ... +60° C
Air humidity	max. 80 % relative air humidity at 30° C
Certification	CE
Art.-No.	0300330020

Revisions in the course of technical progress reserved.

\*with integrated frequency scaler

