

$\alpha$   $\beta$

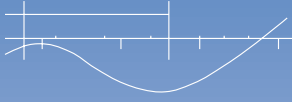
... the HELIO-STROB series leaves no wishes ungranted

# HELIO-STROB



**ELMED**  
MESSTECHNIK

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### The advantages at a glance

- Highly constant brightness
- Internal and external triggering, mains triggering
- Convenient operation
- Automatic range switching
- Automatic switching between coarse and fine adjustment
- Adjustment memory function
- Slow-Motion effect
- Shifting of the observation point
- Dimmer function
- Designed for permanent operation





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# HELIO-STROB

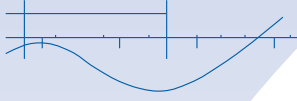
## Technical data

### Instrument type

	<b>HELIO-STROB ALPHA</b>	<b>HELIO-STROB BETA</b>	<b>HELIO-STROB BETA A3</b>
Power supply	115 / 230 VAC 50 / 60 Hz	115 / 230 VAC 50 / 60 Hz	115 / 230 VAC 50 / 60 Hz
Power consumption	app. 80 W	app. 80 W	app. 150 W
Twin-shell metal case with handle / stand	280 x 240 x 80 (mm)	280 x 240 x 80 (mm)	280 x 240 x 80 (mm)
Weight	app. 2,3 kg (control unit) app. 1,5 kg (hand-held lamp)	app. 2,3 kg ((control unit) app. 1,5 kg (hand-held lamp)	app. 2,3 kg (control unit) app. 1,5 kg (hand-held lamp)
Light source	Quartz flash tube, pluggable	Quartz flash tube, pluggable	Quartz flash tube, pluggable
Flash rate	60 – 24000 FPM	1 – 400 FPS 60 – 24000 FPM	1 – 315 FPS 60 – 18900 FPM
Flash rate control	– Twist knob and digital display, external flash rate control by transducer, pos. Impulse 5 to 30 V	– Twist knob and digital display, external flash rate control by transducer, pos. Impulse, 5 bis 30 V	– Twist knob and digital display, external flash rate control by transducer, pos. Impulse, 5 bis 30 V, Input frequency max. 9000 Hz*
Digital Display	5 digits, 7-segment display, red, character height 13 mm, display in FPM	5 digits, 7-segment display, red, character height 13 mm, display in FPS / FPM	5 digits, 7-segment display, red, character height 13 mm, display in FPS / FPM
Display resolution	1 FPM	0,01 FPS / FPM	0,01 FPS / FPM
Phase shifting	–	Value in degree / ms 0° – 540° / 0 – 65 ms	Value in degree / ms 0° – 540° / 0 – 999,99 ms
Slow Motion	–	–	Beat frequency -5,00 Hz bis +5,00 Hz
Serial Interface	–	–	yes
Light output	max. 0,4 Ws	max. 0,4 Ws	max. 3,0 Ws
Light intensity	max. 2700 Lux (at 50 cm distance)	max. 2700 Lux (at 50 cm distance)	max. 9600 Lux (at 50 cm distance)
Overall power	50 W	50 W	100 W
Operating temperature	0° ... +40° C	0° ... +40° C	0° ... +40° C
Storage temperature	-20° ... +85° C	-20° ... +85° C	-20° ... +85° C
Air humidity	max. 80 % relative humidity at 30°C	max. 80 % relative humidity at 30°C	max. 80 % relative humidity at 30°C
Part.-no.	0300300010	0300310010	0300330010

\*integral frequency scaler 1:1 to 1:8

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## HELIO-STROB

### Applications:

For the observation of rapid movements, either by eye or with a camera. With its numerous designs, the HELIO-STROB series provides diverse facilities. A robust, easy to maintain metal twin-shell case with "stand handle" and a separate hand-held lamp implement the highest degree of flexibility and open new applications in the field of the visualisation of movements and vibrations. Whether with constant brightness over the entire frequency range with the new dimmer function or with automatic optimisation of the brightness for the selected frequency, slow motion or variable shifting of the observed point (phase shifting), every requirement is fulfilled. Apart from the accurate internal controller, external or mains triggering are available. Arbitrary changes between high accuracy fine adjustment by 1/100 Hz and a frequency change in large steps, microprocessor technology makes it possible. The standard version ALPHA with simple operation, the BETA with all the options of the latest technology or the BETA A3 with further increased brightness:

the HELIO-STROB series leaves no wishes ungranted.

Revisions in the course of technical progress reserved.



### Sector-specific solutions

Give us a call!

Decades of experience are reflected in the practical details



Ergonomically shaped handle



Practical swivelling handle



Built-in tripod connection