

HIGH-PERFORMANCE STROBOSCOPES FOR INDUSTRY AND RESEARCH



## HELIO-STROB BETA / BETA A3

... when performance counts

- high and constant brightness
- pin sharp images
- dimmer function
- automatic brightness optimisation
- internal and external triggering
- electronic shifting of the focus
- slow-motion effect (BETA A3)
- USB interface (BETA A3)



**ELMED**  
MESSTECHNIK

# HELIO-STROB BETA / BETA A3

## Applications

For the observation of rapid movements, either by eye or with a camera: The HELIO-STROB BETA and BETA A3 provide various facilities. Whether with constant brightness in the entire frequency range, with the new dimmer function or with automatic optimisation of the brightness for the selected frequency; whether with slow-motion or variable shifting of the focus (phase shifting): The range of features opens new applications in the field of visualisation of



movements and vibrations. Every requirement is fulfilled. Apart from the accurate internal controller, external or mains triggering are available. Arbitrary changes between fine adjustment by 1/100 Hz and a frequency change in large steps, microprocessor technology provides all opportunities. A robust, easy to maintain metal twin-shell case with support and a separate hand-held lamp implement the highest degree of flexibility.

## Technical Data

### Instrument type

Power supply  
Power consumption  
Case

Weight

Light source  
Frequency range in Hz/min<sup>-1</sup>  
Control of the flash rate by

Measured value display

Resolution of the display  
Phase shifting  
Slow-motion function

TTL-output  
Serial interface  
Light output  
Light intensity

Total power  
Operating temperature  
Storage temperature  
Air humidity

Certification

Scope of supply

Art.-No.

### HELIO-STROB BETA

100 – 240 VAC, 50 – 60 Hz  
max. 80 W  
twin-shell metal case with  
handle / support  
280 x 240 x 80 (mm)  
approx. 2.3 kg (control unit)  
approx. 1.5 kg (hand-held lamp)  
flash tube, plug-in installation  
1 – 400 Hz/60 – 24000 min<sup>-1</sup>  
twist knob,  
external control by transducer,  
pos. impulses, 5 to 30 V

5-digit 7-segment display  
display in Hz/min<sup>-1</sup>  
up to 0.01 Hz/1 min<sup>-1</sup>  
0° – 540°/0 – 650,00 ms  
optional  
beat frequency  
from -5.00 Hz to +5.00 Hz  
optional

max. 0.4 Ws  
max. 2700 Lux  
(at a distance of 50 cm)  
50 W

0° ... +40° C  
-20° ... +85° C  
max. 80 % relative  
air humidity at 30° C  
CE

HELIO-STROB BETA,  
hand-held lamp  
incl. flash tube  
0300310010

### HELIO-STROB BETA A3

100 – 240 VAC, 50 – 60 Hz  
max. 150 W  
twin-shell metal case with  
handle / support  
280 x 240 x 80 (mm)  
approx. 2.8 kg (control unit)  
approx. 1.5 kg (hand-held lamp)  
flash tube, plug-in installation  
1 – 315 Hz/60 – 18900 min<sup>-1</sup>  
twist knob,  
external control by transducer,  
pos. Impulse, 5 bis 30 V,  
input frequency max. 8000 Hz\*

6-digit 7-segment display  
display in Hz/min<sup>-1</sup>  
up to 0.01 Hz/0.1 min<sup>-1</sup>  
0° – 540°/0 – 999.99 ms  
yes  
beat frequency  
from -5.00 Hz to +5.00 Hz

yes  
USB (Type B) for firmware-updates  
max. 3.0 Ws  
max. 9600 Lux  
(at a distance of 50 cm)  
100 W

0° ... +40° C  
-20° ... +85° C  
max. 80 % relative  
air humidity at 30° C  
CE

HELIO-STROB BETA A3,  
hand-held lamp  
incl. flash tube  
0300330010



Revisions in the course of technical progress reserved.  
\*with integrated frequency scaler