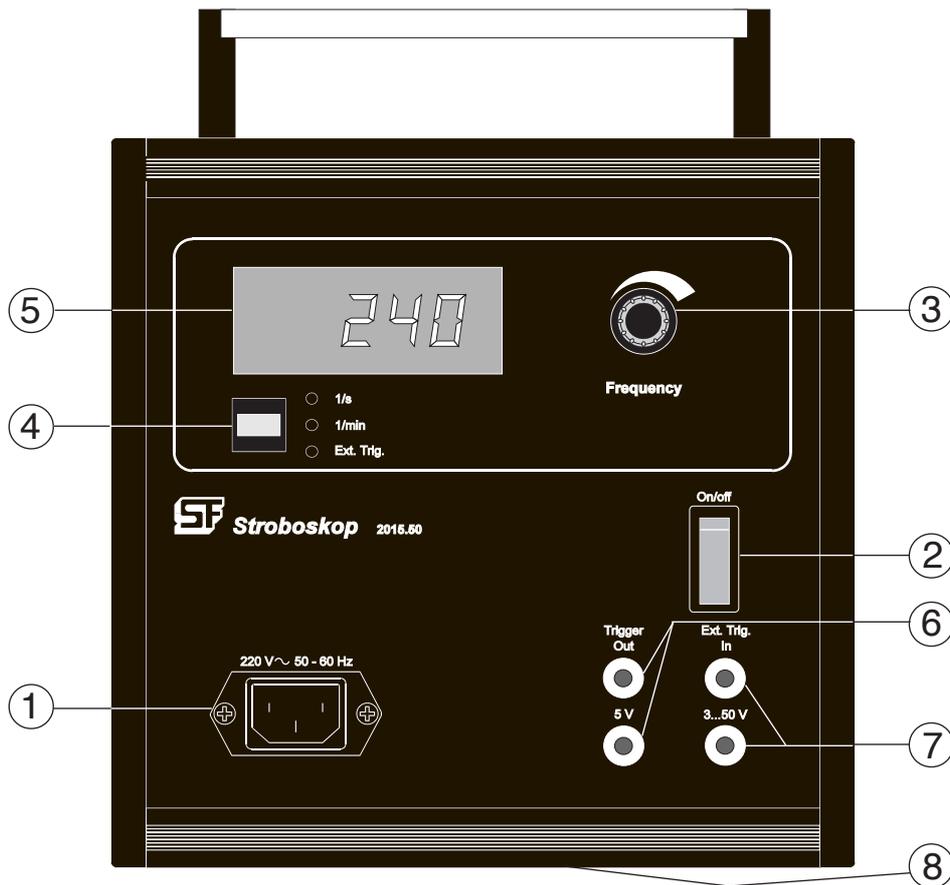


# Instruction manual for stroboscope 2015.50

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Ae 2015.50



The stroboscope is suitable for optical freezing-up of movements, repeated periodically. As the lamp is equipped with a very strong flash tube, the flashes given off are so powerful that photographic takings are possible. As the flash frequency can be read at a long distance, which makes the app. extremely well suited for education purposes. The stroboscope is equipped with a threaded hole for photo rack in the bottom.

Pos. 1 Connection for main cable. The unit is equipped with 1,5 meter grounded cable.

Pos. 2 Mains switch. The switch is equipped with a built-in lamp, which is lit when the app. is turned on.

Pos. 3 Regulating knob. By means of this button the flash frequency can be adjusted from 1 to 300 flashes per second or 60 to 18.000 flashes per minute.

Pos. 4 Function switch. By pushing this button you can switch between reading of flashes per sec., flashes per minute or external triggering. The light emitting diodes show the function engaged.

Pos. 5 Display. Four digit display, indicating number of flashes per seconds or flashes per minute.

Pos. 6 Output bushes for internal control signal (trigger signal). Used e.g. if several stroboscope are to be connected, one lamp controlling the others, or may be used as a signal to another counter. Pulse level 5 volt.



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Pos. 7 Inputbushes for external trigger signal. Through connection of pulses with a voltage from 3 to 50 volt RMS, the flash frequency of the lamp can be controlled externally. The function switch (4) should be in pos. "Ext. Trig.". The trigger signal is not allowed to exceed 300 Hz, owing to overlaid of the flash tube.

Pos. 8 The housing of the stroboscope is the button equipped with a threaded hole for photo rack.

#### General operation:

Connect the Stroboscope a 230 V AC mains outlet by means of the supplied power cord. Flip the mains switch (pos. 2) to ON. The switch will light and the Stroboscope start flashing and the flash rate will be indicated on the display as flashes per sec. Activate the function switch (pos. 4) if you want to change the display unit to flash per minute, if activated once more will change the mode to external triggering. In the Ext.trig. mode the stroboscope will flash only if an appropriate external trigger (signal) is provided. Push the switch a third time to return the stroboscope to automatic flashing and the display mode to flashes per sec. The chosen mode is always indicated by the LED's to the right of the function switch (pos. 4).

#### Using the external triggering:

This facility (pos. 7) may as previously mentioned be used to synchronise the strobe flashes with one stroboscope controlling one or several others connected, or as input terminal for external triggering signals utilised to control the app.

To trigger the stroboscope by means of an external signal, the external signal provided must be a 3 - 50 V RMS pulse. Apply the external signal to the "Ext. trig" terminals (pos. 7) - ground to the black and signal to the red bushing, set the function switch (pos. 4) to the "Ext. trig." mode. The stroboscope will consequently flash on the falling edge of each and every trigger pulse.

When operating in the external trigger mode the display shows the flash rate in flashes per sec. Since the app. must count the flashes over each one sec. period the flash rate is given only to the nearest integer.

To synchronise the flashes of 2 or more stroboscopes simply use the "Output" signal from one stroboscope as external trigger for the second and so forth. The first stroboscope in the row controls all the following connected.

#### Technical specifications:

Supply voltage:	230 V AC
Fuse:	250 mA træg
Parabolic diameter:	140 mm
Flash rate:	1-300 flashes/sek. $\pm$ 1% 60 - 18.000 flashes/min.
Output sync signal:	5-6 V.
External trigger pulse:	3-50 V (triggers on the falling edge of pulse).
Dimensions:	240 x 210 x 123 mm
Weight:	2,5 kg

#### EXTRAS:

Photo rack for stroboscope lamp is available at nr. 2030.16



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