

EUROPE'S LARGEST SELECTION OF TEST & MEASUREMENT EQUIPMENT FOR HIRE

INLEC.COM

DATA-SHEET



Nationwide Low Call
0333 6000 600

WHY BUY
WHEN YOU CAN HIRE

Betriebsanleitung Handstroboskop

Handstroboscope operating instructions

Notice d'utilisation stroboscope portable

Istruzioni per l'uso dello stroboscopio manuale

Instrucciones de uso – Estroboscopio de mano

Manual de instruções Estroboscópio manual

Gebruiksaanwijzing handstroboscoop

Bruksanvisning bärbart stroboskop

ハンディ・ストロボスコープ操作説明書

手提式频闪观测仪使用说明书



Pocket Strobe™

These operating instructions are a component of the device. They must be kept in an accessible place and must be passed on to subsequent users. If anything is not clear to you, ask your supplier.

The manufacturer reserves the right to further develop this device without necessarily documenting this. Your supplier will be happy to inform you as to how up to date these instructions are.

1. Proper use

This device is for testing the movement of rotating and vibrating objects. It may only be used in accordance with these instructions. Making changes to the device is not permitted. The manufacturer is not responsible for damage resulting from improper use. It also invalidates the guarantee.

2. Safety instructions

WARNING: HIGH VOLTAGE! The device may only be opened for the purposes of changing the flash lamp (see section 5).

WARNING! In stroboscopic light, moving objects appear to be stationary or slow-moving. Do not touch the objects.

WARNING! The device may not be used in areas where there is a danger of explosion.

WARNING! Store the device in a dry place. During operation, it must not be exposed to water drops or spray. Metal objects must not be inserted into the ventilation opening of the casing.

WARNING! Stroboscopic light can trigger epileptic fits in susceptible persons.

WARNING! Danger of explosion! The battery must not be exposed to excessive heat (sunshine, fire, etc.).

ATTENTION! Repairs to the device and battery changes may only be carried out by the manufacturer or the supplier.

ATTENTION! The electronic components of the device, the battery and the flash tube contain environmentally dangerous substances. They must be disposed of in accordance with the environmental guidelines of the operator's country.

3. Operation

ATTENTION! Before using the device for the first time, discharge and then recharge the battery through the battery charger.

ATTENTION! The operating times and the care with which the device is used and recharged influence the performance and the durability of the battery.

- Switch off the device immediately after use.
- Avoid complete discharges.

– Avoid recharging the battery at temperatures below 0°C.

- Aim the device at the moving object and switch it on (fig. 1, 1).

The device flashes at the frequency last set. The display (fig. 1, 3) shows the flash frequency set in "flashes per minute" (FPM).

- Setting the flash frequency with the knob (fig. 1, 2)

The stages in which the frequency is changed depends on the turning movement.

If the flash frequency corresponds to the movement frequency, the image is motionless. As you approach the movement frequency, the object appears to move slowly.

INFORMATION! Motionless images do not only appear when the movement frequency is reached, but also for multiples and fractions of same (see fig. 2).

Practical analysis of the movement frequency

- Search for a motionless image by turning the knob
- Compare the image pattern and the contrast for multiples and fractions of this flash frequency

The flash frequency for which the single image of the object appears with the greatest contrast is the movement frequency.

4. Special messages in the display

- **Low Bat** constant: The battery is almost empty. From the time this first appears, the device has a remaining operating time of approx. 4 minutes.
- **Low Bat** flashing: The battery is empty. The device switches to a power-saving mode to avoid a sudden complete discharge.

ATTENTION! If the **Low Bat** message is flashing in the display, the device stops measuring and must be switched off.

- **Ext:** External triggering
- **E1:** Reflector is not fastened correctly

ATTENTION! If the **E1** message appears, the device must be switched off and the reflector must be fastened correctly with the reflector screw.

5. Changing the flash lamp

WARNING: HIGH VOLTAGE!

- The device must never be used without the reflector.
- The reflector screw must never be screwed in when the reflector is not in place. Otherwise you may get an electric shock.

ATTENTION!

- You must only use the original flash lamps of the manufacturer.
- Never touch the flash lamp with your bare hands.

- Switch off the device
 - Unscrew the reflector screw (fig. 1, 5)
 - Remove the reflector (fig. 4, 1)
 - Remove the old flash lamp (see fig. 4, 2)
 - Take the new flash lamp with a dust- and greasefree cloth and insert it
- ATTENTION!** Make sure the flash lamp is correctly installed in the socket. If it is crooked, the light output of the reflector is reduced (see fig 4, 3).
- Refasten the reflector with the screw.

6. Connections

Trigger signal connection (fig. 1, 6)

ATTENTION! Do not trigger the device with signals over 12,500 Hz.

INFORMATION! If an external trigger signal is connected, the flash frequency is automatically correlated to it and shown in the display. The knob (fig. 1, 2) does not function.

The device includes a plug suitable for the input socket. The arrangement of the plug contacts is shown in fig. 3.

Battery charger connection (fig. 1, 8)

ATTENTION!

- You must only use the device supplied.
- Note the separate operating instructions for the recharger.

Because of the automatic charging, the device can remain connected to the charger without damaging the battery. However, it cannot be operated while the charger is connected.

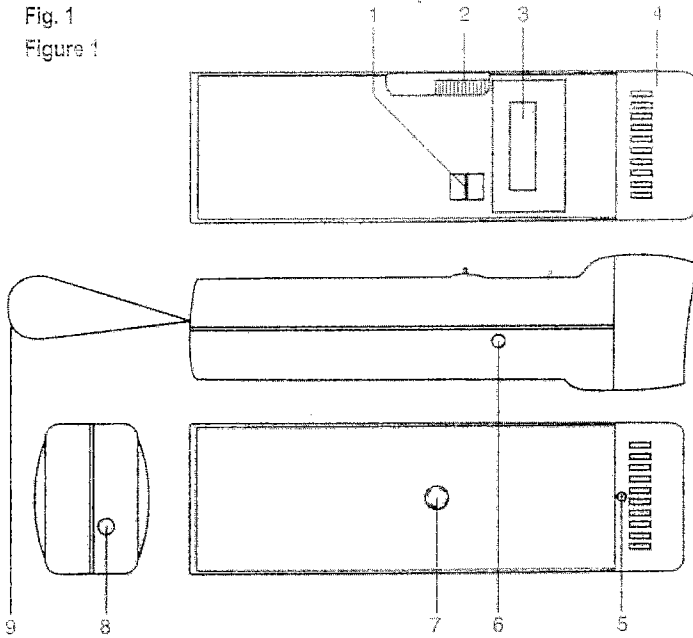
7. Scope of delivery

- Operating instructions
- Device case
- Battery charger and adapter specific to country
- Plug for trigger input

8. Accessories, optional

- Replacement flash lamp (there is a place for it in the device case)
- Belt-clip holster

Bild 1
Fig. 1
Figure 1



1. EIN/AUS
ON/OFF
MARCHE/ARRET
2. STELLRAD ZUR GROB- UND FEINEINSTELLUNG
COARSE AND FINE ADJUSTEMENT KNOB
MOLLETTE DE REGLAGE FIN ET GROSSIER
3. LCD ANZEIGE
LCD DISPLAY
AFFICHEUR LCD
4. REFLEKTOR
REFLECTOR
REFLECTEUR
5. REFLEKTORSCHRAUBE
REFLECTOR SCREW
VIS DU REFLECTEUR
6. EXTERNAL TRIGGERANSCHLUSS
EXTERNAL TRIGGER INPUT JACK
CONNECTEUR EXTERNE DE DECLenchEMENT
7. STATIVANSCHLUSS
TRIPOD SCREW HOLE
POINT DE FIXATION DU TREPied
8. LADEGERÄTANSCHLUSS
BATTERY CHARGER JACK
PRISE DE RACCORDEMENT DU CHARGEUR
9. FANGKORDEL
LANYARD
LANIERE

Bild 2
Fig. 2
Figure 2

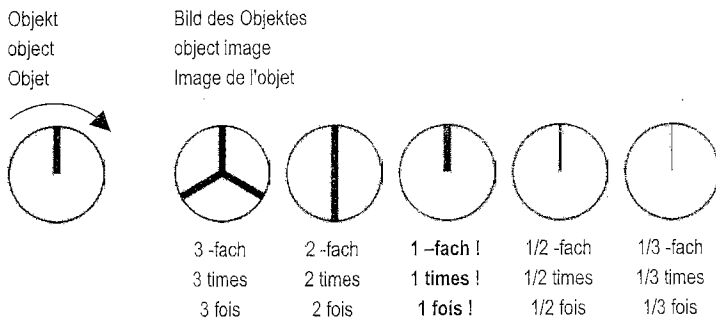


Bild 3
Fig. 3
Figure 3

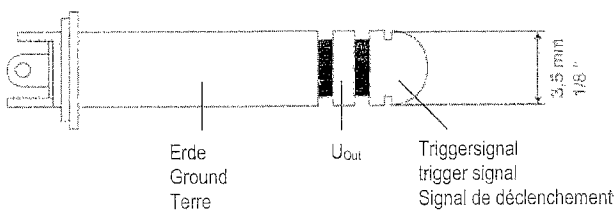
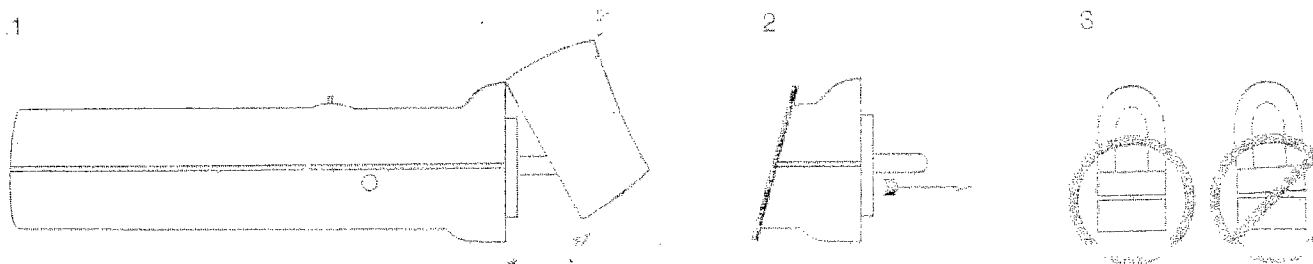



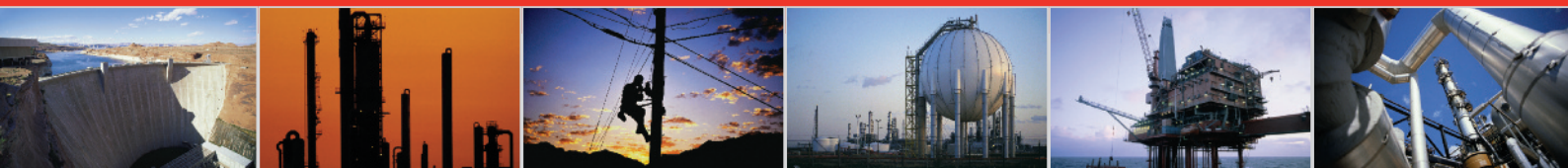
Bild 4
Fig. 4
Figure 4



Specification

Display Parameters	
Range	30 ... 12.500 FPM (flashes per minute)
Accuracy	+/- 0,01 % from Display +/-1 digit
Resolution	+/-1 digit
Repeatability	+/-1 digit
Display	5 Digit LCD
Flash Tube Parameter	
Longevity	100.000.000 flashes
Flash Duration	< 20 us
Light Emission / Range	800 Lux / 20 cm / 8"
Flash Color	6.000 ... 6.500 K
Flash Energy	max. 150 mJ
Electrical Specification	
Use	Rechargeable Battery
Continuous Use Time	min. 1h over 30 ... 12.500 FPM on 23 °C / 73°F
Battery Protection	yes
External Trigger Input	0 ... 5 V DTL/TTL compatible 3,5 mm / 1/8" standard connector U _{out} = 7,2 V unregulated
Line Power Input for recharging	100 ... 240 V, 50/60 Hz incl. 4 area connector pins
Battery	NiMH Rechargeable Battery Pack
Recharging Time	max. 3,5 h
Overload protection (trickle charge)	yes
Housing	
Material	ABS
Size	240 x 65 x 40mm / 9,75 x 2,75 x 1,75 inch
Weight	465 g
Ambient Conditions	
Ambient Temp.	0 ° ... 40 °C (32 ° ... 114 °F)
Storage Temp.	-25 °C ... 70 °C (-10 °F ... 125 °F)
Humidity	max. 95 % not condensed
Certifications	
EMV / EMC 92/336/EWG EN 61326-1, +A1	
73/23/EWG	
 ; Printed CE-Conformity on request	

INLEC, supporting you to deliver a world class service, every day, in every sector ...



OUR COMMITMENT TO YOU

A wealth of knowledge and experience.

You can take advantage of expert advice to ensure you get the best, most appropriate and cost effective equipment for the job. We supply a wide variety of industries, so if there is another way to do the job or save you time and money we'll pass on the benefit of our experience for free.

Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

Top quality equipment from major manufacturers.

With Inlec you'll get the most accurate, reliable and well-maintained equipment available. Prices are regularly reviewed to ensure you always enjoy the best value for money. We have made a significant investment in test equipment so we ensure that it's well packed to minimise damage and delay.

We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

YOUR 5 WAY GUARANTEE

1 GUARANTEE SAME DAY DESPATCH

We understand why prompt delivery is important to you. So, if we confirm your order before 3pm, you are guaranteed same day despatch.

2 OUR PRICE GUARANTEE

Inlec guarantee you real value for money. Our price match policy is simple - if you can hire the same product for less elsewhere, we guarantee to match that price and reduce it by a further 10% of the difference - and still deliver our industry leading technical and customer support.

For full details check our price-match guarantee online

3 TOP QUALITY GUARANTEED

All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

4 FRIENDLY, KNOWLEDGEABLE ADVICE GUARANTEED

Inlec are happy to provide you with free advice, from an unbeatable team of experienced, knowledgeable and friendly engineers and hire experts.

5 YOUR GUARANTEE OF THE BEST CUSTOMER SERVICE

Throughout your hire we will work hard to ensure you enjoy the very best in support and service from Inlec. We guarantee you won't find better service anywhere in the industry.

*subject to availability and conditions

Europe's leading Test Equipment Hire Specialist



LAB NO. 0535



Nationwide Low Call **0333 6000 600**
Online: **www.inlec.com**

Inlec UK Ellerbeck Way, Stokesley Business Park, Stokesley N Yorkshire TS9 5JZ United Kingdom



CERT. NO. GB93/1773



Accredited Contractor