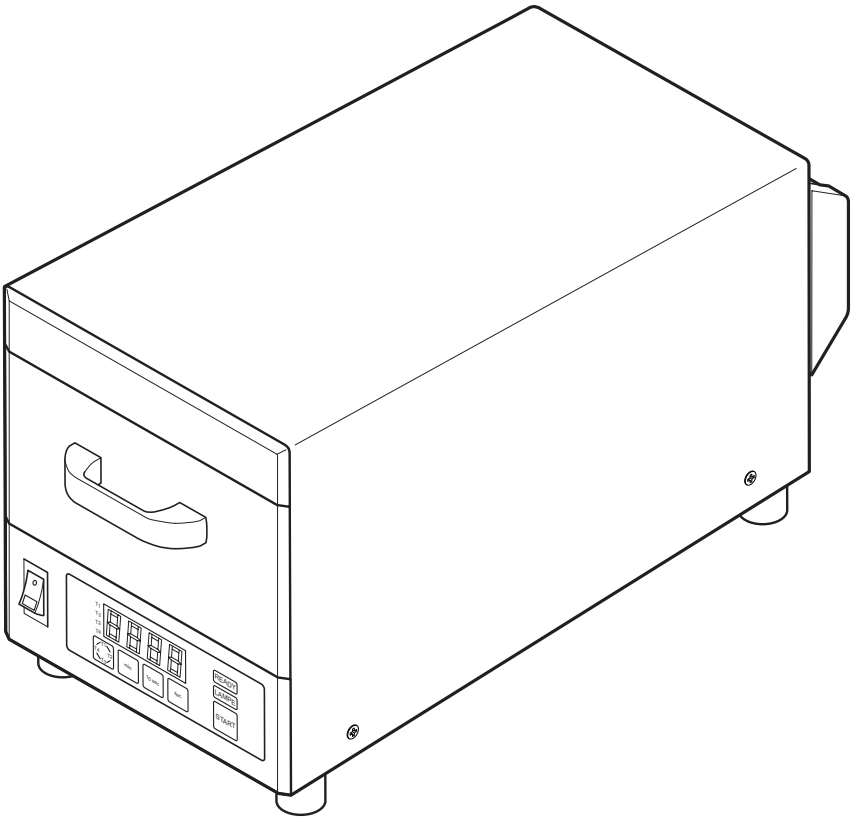
G 174 Strobo-Lux

Instruction Manual



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1 Technical Description

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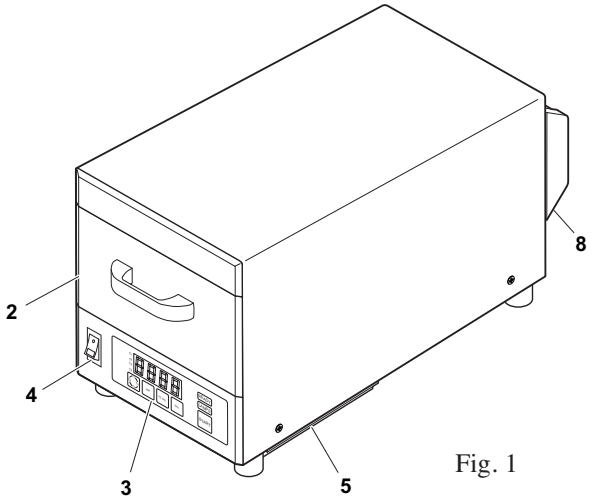
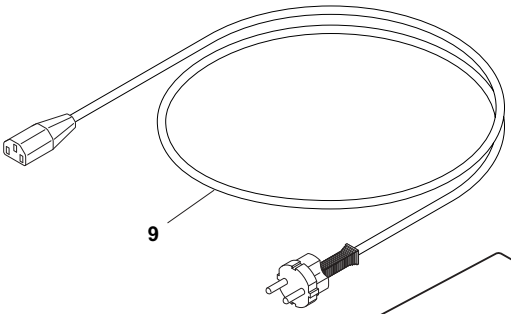


Fig. 1



Rear

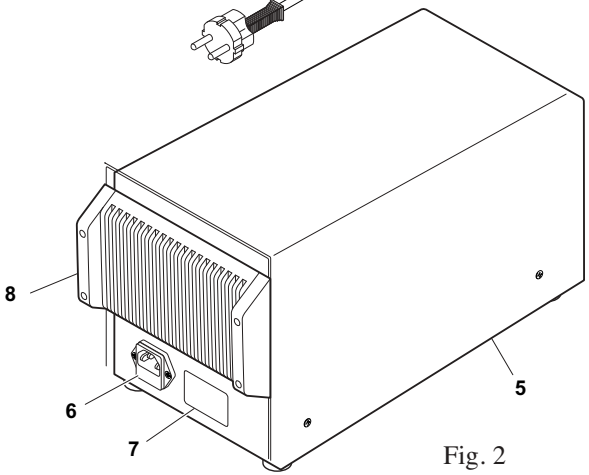


Fig. 2

1 Technical Description

Initiation Procedure

Insert line chord into socket (6) on rear of casing.
(Pay attention to correct net voltage, see type plate fig. 2.)
Switch on with main switch (4).
Adjust timer to desired polymerization time, (see also Ch. 4 ”Use with Timer” pp. 10 – 11).
The Strobo-Lux G 174 is now reading for use.
Before starting, please make sure to read Ch. 3 ”Important Notices” pp. 8 – 9, before starting.

1. Lamp module
2. Flap with handle
3. Timer display
4. Main switch
5. Dust filter with filter holder (on bottom)
6. Net socket with fuse
7. Type plate
8. Air grille outside
9. Line chord

2 Application

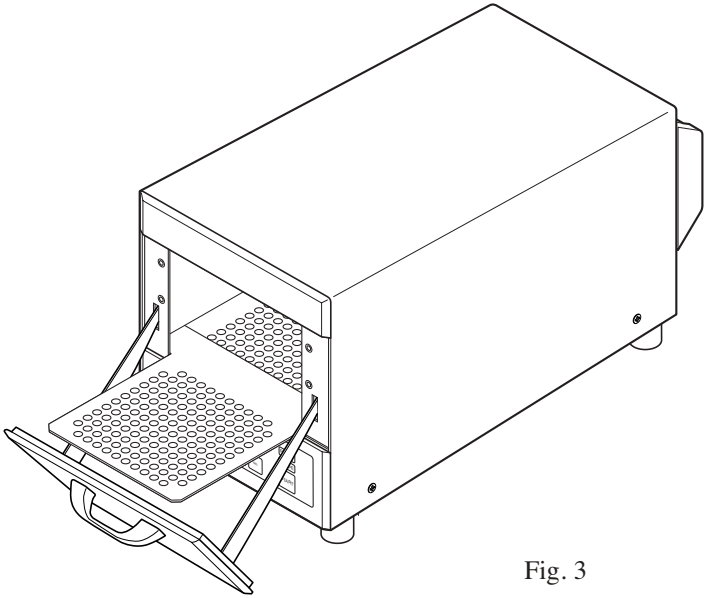


Fig. 3

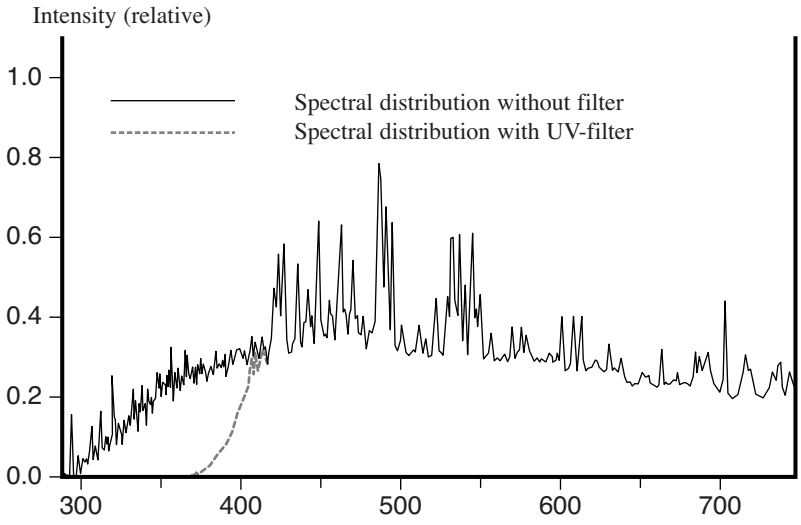


Fig. 4

2 Application

Open flap by pulling handle forwards and downwards. The perforated stainless steel tray will slide out and is now accessible from 3 sides.

As long as the flap is open, the device is without current.

Place the polymerization material onto the tray, as centrally as possible, and smoothly slide the tray back in.

The display will show the previously programmed time. (See also ”Use with timer”.)

The polymerization procedure is initiated with the ”Start” key.

An acoustic signal sounds upon termination of the programmed polymerization time.

The fan will continue running a certain time, depending on the temperature.

Careful: Lamp may be hot. Never reach upwards into the lamp.

The radiation emitted by the lamp (fig. 4) encompasses the entire spectral range from 300 – 700 nm, with the maximum between 400 -500 nm. Thus, Strobo-Lux G 174 is suitable for all light curable material.

3 Important Notices

Longer irradiation may substantially heat up the polymerization space. Therefore it is advisable to wait a few seconds before opening the flap (fan continues working).

Don’t reach up into the lamp while flap is open.

Never operate the device without casing hood.

Never operate the device without lamp module.

3 Important Notices

For the operation of the device, the lamp module must always be completely inserted. The flap must always be completely shut.

The dust filter (5) on the bottom of the device should always be kept clean (danger of over-heating and contamination.)

Depending on dust accumulation, clean or replace the filter regularly.

After long exposure to low temperatures (e.g. transport in the winter), allow the device to acclimatize for app. 2 hours in the operation room and only then switch it on. Otherwise there is danger of a condensation-induced short-circuit.

4 Use with Timer

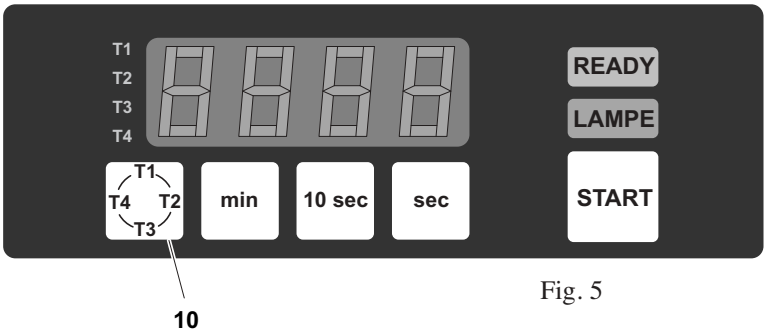


Fig. 5

Programming Mode:

The timer is equipped with four programmable pre-selected times, which may be called up via the key T1 T4 T2 T3 (10).
Through simultaneous depression of the key T1 T4 T2 T3 (10) and the key START the timer is switched to programming mode.

The green READY signal extinguishes and a point lights up on the bottom right hand side of the seconds digit.
The word ON lights up briefly on the display.
Choose a pre- selected number via the key T1 T4 T2 T3 (10) and program the desired polymerization time via the min, 10 sec and sec keys.
Repeat this process until all pre-selected times T1 – T4 are programmed.
Press the START key to deactivate the programming mode and reset the timer to working mode.
The word OFF lights up briefly on the display.

4 Use with Timer

Operation Mode:

Flip the main switch to turn on the device.
READY lights up in green and the latest polymerization time appears on the display.
Adjust to the desired polymerization time either using the programmable pre-selection keys (T1 – T4) or the min , 10 sec and sec keys..
The maximum polymerization period is 15 minutes and 59 seconds - the minimum is 1 second.
Press the START key to initiate the program.
Upon lapse of the polymerization time a triple acoustic signal sounds.
END appears on the display.
The timer resets to the previously adjusted time.

Pre-Selected Times:

Through repeated depression of the key T1 T2 T3 T4 (10) the four pre-selected times may be chosen one after the other.
The program number T1 – T4 will light up on the left hand side of the display while the respective pre-selected time will appear on the display.
Press START to initiate the program at any time.
The displayed polymerization time can be altered at any time by pressing the MIN, 10 SEC or SEC keys. In this case the chosen pre-selected time extinguishes immediately.
The red LAMPE (lamp) signal will light up if the flashbulb fails to ignite or is in any way defective or if the device is overheated.

5 Maintenance, Cleaning, Repair

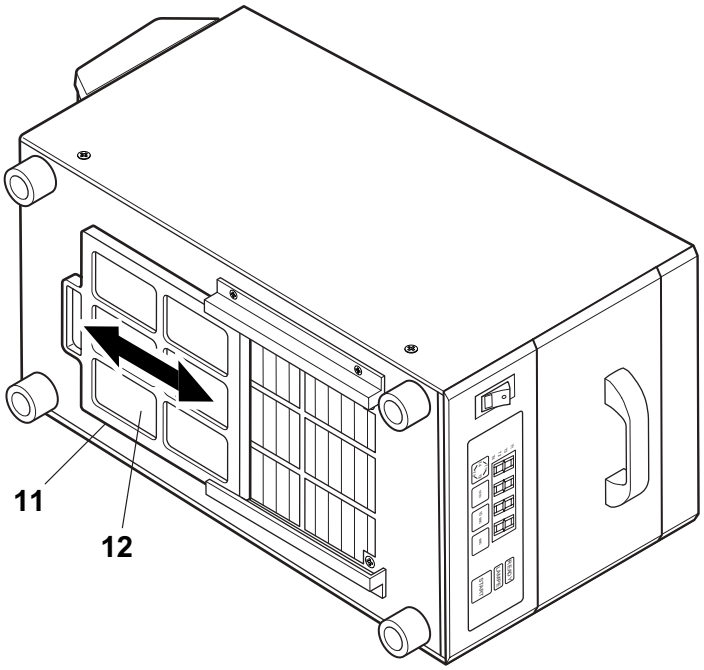


Fig. 6

5 Maintenance, Cleaning, Repair

Maintenance:

Changing the dust filter:

- Place device on its side (fig. 6, p. 12)
- Pull out filter holder (11) towards back.
- Take out dust filter (12) and clean it (blow through) or change it.
- Place new or cleaned dust filter into filter holder.
- Insert filter all the way to catch, pushing it over the pressure point.
- Return device to upright position.

Cleaning:

All outside surfaces as well as the perforated stainless steel tray and the reflector in the front plate can be wiped down with alcohol or household cleaners.

Careful: Do not let any liquid enter into the main switch.

The lamp module on the lamp inside may only be blown out with compressed air using slight over pressure. Under no circumstances is the lamp or reflector to be cleaned with cleaning fluids or tissues.

Repairs:

The repair of the Strobo-Lux G 174 is to be conducted only by us or by someone of our approval.
Lamp and dust filter changes are exceptions.

6 Lamp Exchange

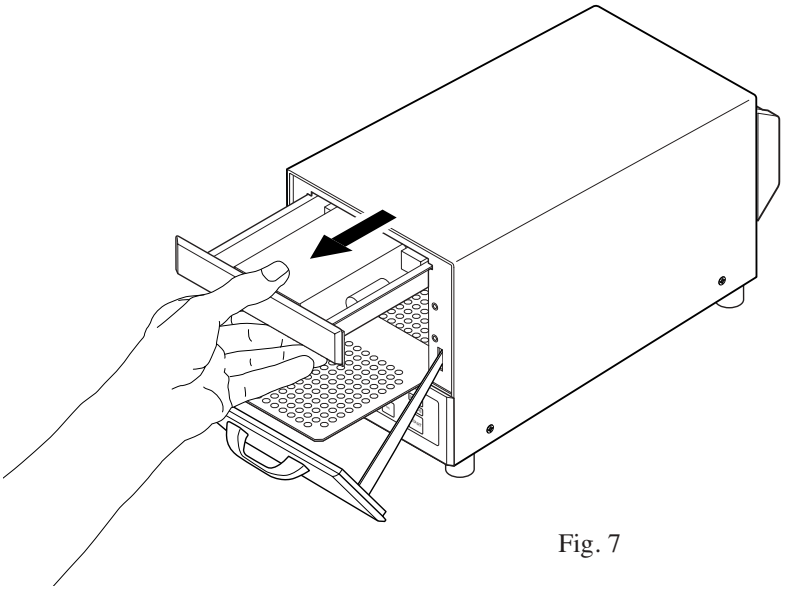


Fig. 7

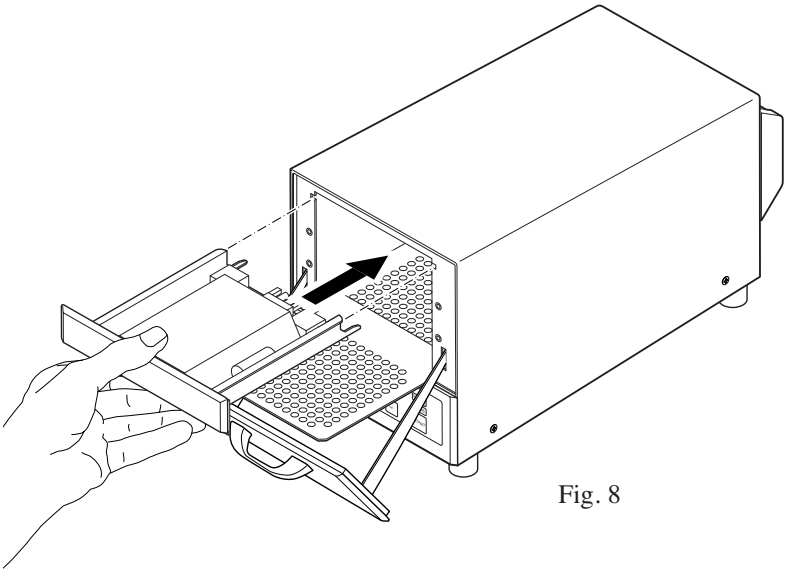


Fig. 8

6 Lamp Exchange

The lamp can only be changed as a complete lamp module.

If needed, allow old lamp to cool down. (Run the device in the stand-by mode for app. 1 minute.)
Turn off device.
Open flap all the way.
Hook 2 fingers into the center of the bottom front edge of the lamp module from underneath and pull it out towards the front (see fig. 7, p. 14).

Insert new lamp module according to fig. 8, p. 14 into the guide rail and slide it in until the catch.

Never touch the lamp with your fingers.

7 Transport, Storing, Disposal

For transport and storing of up to 6 months, the following conditions hold:

Temperature:	0°C - 70°C
Relative humidity:	10% - 80%
Air pressure:	500 -1000 hPa

Afterwards, values from operation conditions hold.

Temperature:	+ 10°C - 30°C
Relative humidity:	20% - 80%
Air pressure:	500 -1000 hPa

Storing is only permissible in closed rooms.
Protect device from humidity and wetness.
Do not expose device to strong jolts.

Secure flap with tape during transport.

7 Transport, Storing, Disposal

Disposal of the device:

Once plastic parts and/or air grille are dismantled, floor and lid plates, as well as the anodized inner parts, flaps and tray are to be disposed of as metal waste.
The rest is to be disposed of as electronic waste.

Environment relevant materials:

Componet:	Material used:
Casing parts	Aluminum
Flap + tray	Stainless steel
Plastic parts	ABS
Transformer	Copper, iron, polyamide, polyurethane
Capacitors	Aluminum, polypropylene, polyurethane, resin with castor oil
Conductor board	Epoxy resin

The disposal is to occur according to the respective national regulations.
Relevant disposal organizations are to be consulted.

All devices or components may also be sent back to the manufacturer for disposal purposes.
Shipping and handling is covered by distributor.

8 Special Equipment

The following special equipment is available upon request:

- Reduced polymerization space, thus increased light power per cm^2
- Filtering out of undesired spectral ranges of the emitted light spectrum (e.g. UV-block).
- Elapsed hour meter
- Change-over switch between 100, 115 und 230 V, 50 / 60 Hz
- Magnet holder

8 Technical Data

Rated voltage:	100, 115, 230 Volt AC
Rated frequency:	50/60 Hz
Power input:	app. 300 Watt
Dissipated power:	app. 250 Watt
Flash frequency:	20 flashes per second
Digital timer:	programmable from 1 sec. - 15 min. 59 sec. 4 pre-programmable selections
Size of the polymerization space:	app. 120 x 120 x 80 mm
Spectral distribution:	300 - 700 nm maximum between 400 - 500 nm
Lamp life time:	app. 300 hours
Measurements:	LHW 380 x 225 x 180 mm
Weight:	app. 6 kg

We reserve the right to make technical changes as well as further developments.

9 Declaration of Conformity

DECLARATION OF CONFORMITY

EMC-Guideline: 89 / 336 / EEC

Low voltage 73/23/EWG

We: NK-OPTIK
Isarstraße 2
82065 Baierbrunn
Deutschland

hereby declare, on our own responibility, that the following device:

Device type: **Light curing device Strobo-Lux**
Type designation: **G 174**

to which this declaration pertains, is consistent with the following norms or normative documents:
EN 61010-1:2002, EN 55011:2003,
EN 55014-1:2003, EN 55014-2:2002

CE

Baierbrunn,10/23/.2003 A. Kreitmair

Place, Date of Issue A. Kreitmair
C.E.O