

fläsh.

Whitening Lamp

Instructions for use
for REF 3401 /3402/3403

Version 2.7 - 10/2025



WHITEsmile

Made in Germany

flaesh.com

fläsh.

Whitening System

LED high-performance
technology

Guided treatment

Determination of the
brightening levels achieved

Cosmetic or medical
tooth whitening

Use only with:

fläsh Whitening Gel

Not part of the
fläsh Whitening Lamp



WHITEsmile®
Made in Germany

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Dear customer,

Congratulations on your purchase of the fläsh Whitening Lamp.

These instructions for use provide you with information before the first application and later during use. It is important to observe all safety instructions in order to avoid personal injury and damage to property. Always keep the instructions for use to hand. Please carry out maintenance and reprocessing in accordance with the relevant instructions.

We wish you much success and pleasure with the fläsh Whitening System.

Your fläsh Team

WHITEsmile GmbH, Germany

fläsh Whitening Lamp - Instructions for use

Contents

1. General information	6
1.1 Contact details	6
1.2 Product description	6
1.3 Indication/contraindication.	6
2. Safety instructions.	7
2.1 Standards and regulations.	7
2.2 Operating personnel	7
2.3 Physical operating principle.	7
2.4 Hazards due to light emissions	8
2.5 Disconnection from the supply network	9
2.6 Contamination	9
2.7 Conditions for use	9
2.8 Setup/installation	9
2.9 Modifications.	10
2.10 Whitening procedure: Use of whitening gels	10
3. Technical specifications.	11
4. Packaging/components	12
5. Installation.	13
6. Easy lift system	14
7. Adjusting the lamp/storage	15

8. Operating the user interface	16
8.1 Home screen and functions.	16
8.2 Determination of the achieved whitening levels	18
8.3 Default settings	19
8.4 Guided treatment	20
9. flashcard time management system	22
10. Signs and symbols.	23
11. Carrying out the tooth whitening treatment	24
12. Maintenance and servicing	26
12.1 Safety checks	26
12.2 Maintenance	26
12.3 Troubleshooting for simple defects	27
12.4 Power supply/replacing the fuses.	28
13. Preparation	29
13.1 Surface disinfection	29
13.2 Reprocessing instructions for the blue front part and the lip retractor.	29
14. Disposal.	30
15. Notes and manufacturer's declaration	30
16. Electromagnetic compatibility.	31
17. Guarantee	35
18. Labels and label position.	36

1. General information

1.1 Contact details:

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1.2 Product description

The fläsh Whitening Lamp is used for light- and temperature-enhanced activation of fläsh Light Whitening Gel and supports its effect. Activation achieves a better whitening result due to a stronger oxygen reaction. The fläsh Whitening Lamp does not come into direct contact with the patient - it is placed in front of the fläsh lip retractor. The fläsh Whitening Lamp is used by qualified personnel in conjunction with the fläsh Whitening Gel. The treatment lasts up to 60 minutes. The fläsh Whitening Lamp is a mandatory accessory for the intended use of the fläsh Whitening Gel. The fläsh Whitening Lamp can also be used with fläsh cosmetic whitening gel for cosmetic tooth whitening in the dental practice. Use of the fläsh Whitening Lamp without whitening gel is not permitted.

Intended purpose

The fläsh Whitening Lamp is used to activate fläsh Light Whitening Gel and supports its effect.

1.3 Indication/contraindication

The fläsh Whitening Lamp must not be used on patients under the age of 18. The fläsh Whitening Lamp may only be used with fläsh whitening gel and indications and other contraindications must comply with the instructions for use of the fläsh whitening gel. Local regulations may differ from these instructions for use.

2. Safety instructions

2.1 Standards and regulations

The fläsh Whitening Lamp is manufactured in accordance with the EU MDR on medical devices. National guidelines for electrical installations must be observed.

This product complies with the requirements of the RoHS Directive 2011/65/EU.

2.2 Operating personnel

The fläsh Whitening Lamp may only be operated by trained and qualified personnel (dental practitioner, assistant, dental hygienist). The applicable health and safety regulations and accident prevention measures, the current instructions for use and the national training requirements must be observed.

Users are obliged to use only flawless materials to ensure correct application and to protect themselves, the patient and other persons from danger.

To prevent incorrect or improper use, the fläsh Whitening Lamp must not be used by unauthorized persons. The fläsh Whitening Lamp must therefore be protected against unauthorized access when it is not in use.

2.3 Physical operating principle

The blue light with 460 nm of the fläsh Whitening Lamp is generated by 3 LEDs. The power of the LEDs can be adjusted. The light and the developed temperature in the whitening gel accelerate the oxygen reaction and thus enable better whitening results.

2.4 Hazards due to light emissions

The fläsh Whitening Lamp emits blue light with a light spectrum of 460 nm. The maximum light output is 190 mW/cm² in CONSTANT mode and power setting IIII 100%. The power can be reduced: III 75% - II 50% - I 25%.

The minimum distance to the skin is 3 cm. It is technically determined by the blue front part on the lamp head and the lip retractor and is always more than 3 cm from the patient's gingiva. Additional skin protection is not required.

Do not look into the light source on the lamp head. Ensure, when the LEDs are activated that the patient and operator wear orange safety goggles in accordance with DIN EN 166:2002-04, which are supplied with the fläsh Whitening Lamp.

The light can be switched off with the PAUSE or STOP button on the screen or with the main switch underneath the lamp body near the power cable.

The Plexiglas in front of the LEDs must be clear to avoid heat build-up - do not stick anything to the glass.



CAUTION - Use of controls or adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.



Warning for optical radiation

2.5 Disconnection from the supply network

The fläsh Whitening Lamp can be disconnected from the mains by pulling the mains cable out of the socket. Position the fläsh Whitening Lamp so that the mains plug is easily accessible at all times and can easily be disconnected from the power supply.

2.6 Contamination

The fläsh Whitening Lamp only touches the lip retractor with the replaceable blue front part of the lamp head. To prevent the risk of (cross) contamination, reprocess the front part before each use of the fläsh Whitening Lamp in accordance with the reprocessing instructions in section 13.

Always use a reprocessed blue front part for each patient.
Do not use the fläsh Whitening Lamp without the blue front part.



2.7 Conditions for use

The fläsh Whitening Lamp can only be used in dental clinics, hospitals or dental studios. (or if local regulations allow cosmetic whitening in whitening centers). The product may only be used indoors at a temperature between 10 °C and 35 °C. Electromagnetic compatibility (EMC) regulations must be observed: mobile high-frequency communication equipment may affect medical devices. Use is only permitted with the power cable supplied by WHITEsmile.

2.8 Setup/installation

The fläsh Whitening Lamp must be set up properly and completely before commissioning, see section 5 - Installation. Do not use the fläsh Whitening Lamp if a visual inspection reveals that it is damaged.

2.9 Modifications

Modifications to this system that could affect the safety of the system owner, patients or other persons are prohibited by law! The user is responsible for any damage caused by the use of unauthorized accessories. It is not permitted to change the design or construction of the device.

The operator may replace the fuse and the mains cable as described in section 12.4. The user can also replace the head with the spare part REF 3700.

All other repairs must be carried out by authorized personnel. Please ask WHITEsmile or your local distributor where you purchased the fläsh Whitening Lamp.

2.10 Whitening procedures: Use of whitening gels

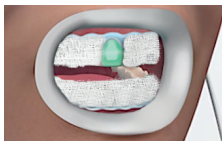
For reasons of patient safety, this product may be operated only with original WHITEsmile fläsh gels to prevent uncontrolled heat development. The whitening process must be carried out according to the instructions of the fläsh whitening gel, which always contain the most up-to-date information on time and settings.



WARNING: All teeth that are not to be whitened and are therefore not covered with gel must be covered with moist gauze to prevent heating (e.g. restorations such as crowns, bridges, implant superstructures and veneers or, in the case of single tooth whitening, the other teeth). The gingiva protector can be used for better fixation.



Dentures must be covered with moist gauze.



For single tooth whitening, the other teeth must be covered with moist gauze.

3. Technical specifications

fläsh Whitening Lamp is an electrical device with 3 blue LEDs (Light Emitting Diodes). The device optimizes tooth whitening treatments (Light Whitening).

Technical information	
Power supply	100-240 V ~ 50 Hz-60 Hz
Maximum input power	60 W
Time-delayed fuse	T1.6A H, 250 V
Light spectrum	460 nm
High-intensity light source with blue/cyan LED light	3 LED
Protection against electric shocks	Class II
Operating mode	Time at 20 min, Time-out 1 min, no continuous operation
Environmental and working conditions	
Ambient temperature	10°C to 35°C (50°F-95°F)
Relative humidity	5% to 95% without condensation
Atmospheric air pressure	70 kPa to 106 kPa
Transport and storage conditions	
Ambient temperature	-40°C to 70°C (-104°F-158°F)
Relative humidity	5% to 95% without condensation
Atmospheric air pressure	50 kPa to 106 kPa

Dimensions	
Power cable plug	SCHUKO
Power cable length	3.00 m
Dimensions	152 × 120 × 63 cm (max. dimensions of the lamp), 63 × 140 × 63 cm, closed
Total weight	approx. 7.5 kg



Medical device EU-MDR CLASS I
Complies with IEC/EN 60601-1



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MADE IN GERMANY



Fuse T 1.6A H 250 V
100-240 V ~ 50-60 Hz 36 VA



The expected useful life of the fläsh Whitening Lamp is 10 years.

NOTE FOR SERVICE PERSONNEL:

A service manual for authorized service personnel is available from WHITEsmile for technicians and dental distributors. Please contact info@whitesmile.com

4. Packaging/components

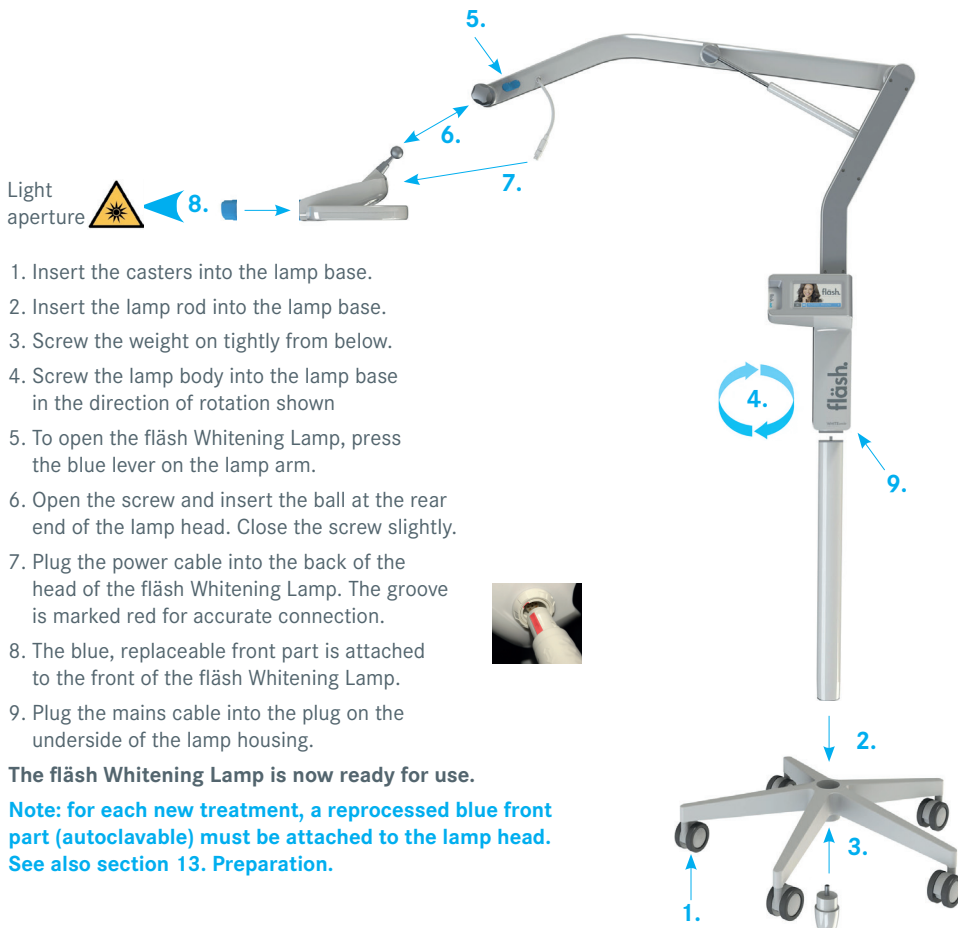
Contents main box: ① 1 lamp body / ② 1 lamp head / ③ 5 casters / ④ 1 counterweight with screw
⑤ 1 power cable / ⑥ 3 blue front parts for lamp head / ⑦ 3 safety glasses according to
DIN EN 166: 2002-04 (REF 3470). / ⑧ Instructions for use with 2 spare fuses, 3x lip holders (REF 3490)

Box dimensions: 80 x 60 x 26 cm, 13.3 kg. ⑨ 1 base for lamp / ⑩ 1 split tube

Only use with original power cable of the fläsh Whitening Lamp



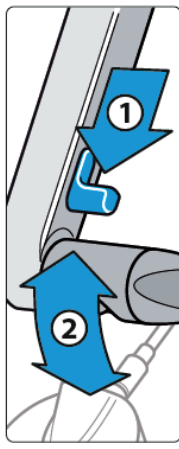
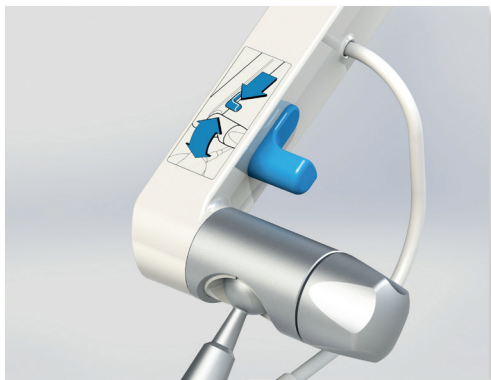
5. Installation



6. Easy lift system

The fläsh Whitening Lamp has a unique positioning system. The blue switch (1) on the lamp arm releases the fläsh Whitening Lamp for an easy and fast 3-dimensional movement of the lamp head to the correct position in front of the patient. The fläsh Whitening Lamp is positioned precisely by releasing the blue switch.

PLEASE NOTE: THE ARM OF THE LAMP CANNOT BE MOVED WITHOUT OPERATING THE BLUE SWITCH.



(2) Fine adjustments are made by opening and closing the large screw on the suspension on the lamp head.



7. Adjusting the lamp/storage

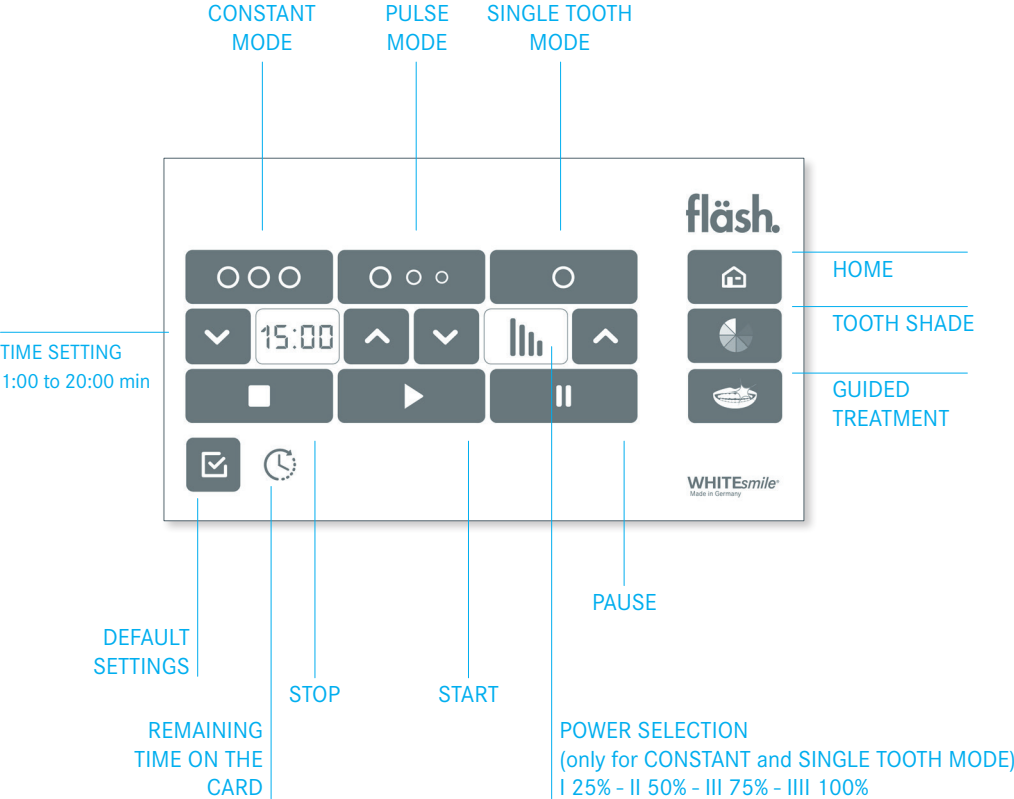
The fläsh Whitening Lamp offers many options for optimally positioning the lamp head with the light source on the patient. This can be moved in three directions. As shown, the fläsh Whitening Lamp can be positioned on the patient from the front, from the side and even from behind.

If the fläsh Whitening Lamp is not in use, the mains cable can be wound up at the back of the fläsh Whitening Lamp.



8. Operation of the user interface

8.1 Home screen and functions



	CONSTANT MODE	All 3 LEDs are permanently on. The light intensity can be selected in 4 levels.
	PULSE MODE	The 3 LEDs light up alternately. This program has a high light intensity with low heat generation. It is particularly recommended for sensitive patients.
	SINGLE TOOTH MODE	Only the middle LED lights up. The light intensity can be selected in 4 levels. No minutes are deducted from the card for this treatment. (Nevertheless, there must be a card in the card slot with at least 1 minute remaining). Do not use the SINGLE TOOTH MODE for complete tooth whitening. The result would be very different in the anterior and posterior regions.
	TIME SETTING	Between one and twenty minutes can be set.
	POWER SELECTION	For CONSTANT and SINGLE TIMING MODE, the light intensity can be set to 25%, 50%, 75% and 100%. The higher the level, the more the gel is heated.
	START	Pressing this button starts the program.
	PAUSE	Pressing this button pauses the program.
	STOP	Pressing this button stops the program and jumps back to the original setting.
	TOOTH SHADE	Determines the achieved whitening levels when the tooth shade reading is entered before and after the treatment. Works with Classical and Bleached Guide from VITA.
	GUIDED TREATMENT	Allows a step-by-step guided treatment for a perfect result.
	DEFAULT SETTINGS	Allows you to select the default settings for duration per cycle, light intensity, type of color ring and language.
	REMAINING TIME ON THE CARD	Displays the remaining time on the flashcard in the device. Counts per minute when using CONSTANT and PULSE MODE. If the card is empty, the flash Whitening Lamp cannot be started.

8.2 Determining the whitening levels achieved

Please select the color key of your choice in the standard settings. You can use the VITA classical shade guide or the VITA Bleached Guide*. Determine the tooth shade with the shade guide before and after treatment and enter the values on the display. When the second value is entered, the number of brightening levels reached is automatically displayed.

* Registered trademarks of VITA Zahnfabrik, Bad Säckingen.

Classical Shade Guide

0M1	0M2	0M3	B1	A1	B2	D2
			A2	C1	C2	D4
			D3	B3	A3.5	B4
				C3	A4	C4

Please select tooth color
pre and post treatment

fläsh.

Home

Settings

Start

WHITEmile
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Bleached Guide

0 M1	0.5 M1	1 M1	1.5 M1.5	2 M2	2.5 M2
		2 M2	2.5 M2	3 M2	3.5 M2
			4 M2	4.5 M2	5 M2
				5 M2.5	5 M3

Please select tooth color
pre and post treatment

fläsh.

Home

Settings

Start

WHITEmile
Made in Germany

A3,5 -> A2
+ 7 shades



fläsh.

Home

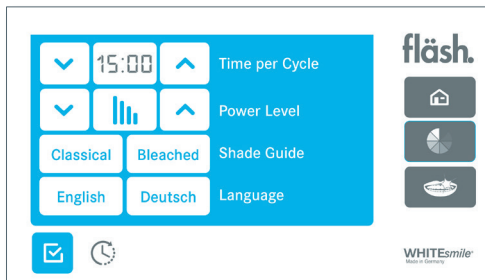
Settings

Start

WHITEmile
Made in Germany

8.3 Default settings

Allows you to select the default settings for duration per cycle, light intensity, type of shade guide and language. The values are stored in the fläsh Whitening Lamp until the next change.



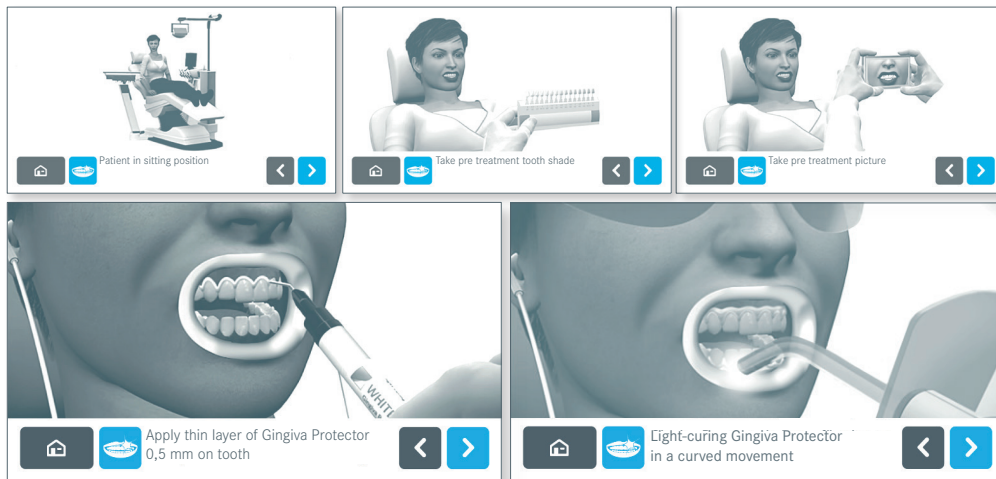
8.4 Guided treatment

The "Guided treatment" function allows you to go through the entire treatment with step-by-step visual instructions. This creates safety for every treatment. You can switch to normal mode at any time by pressing the HOME button.

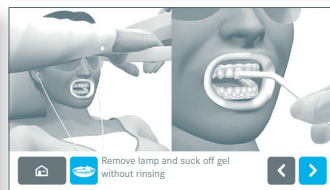
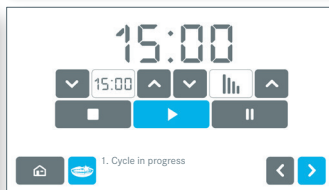
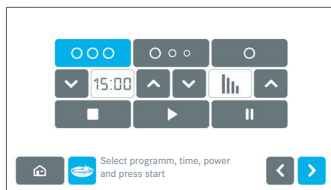
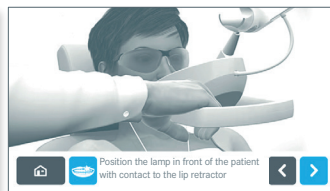
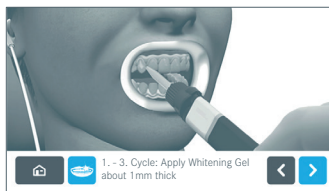
There is also a step-by-step video at www.flaesh.com



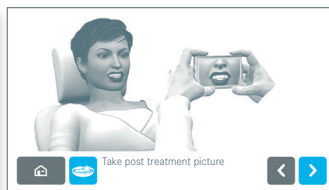
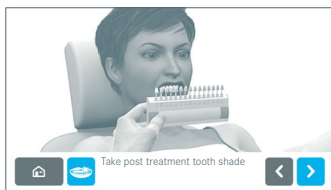
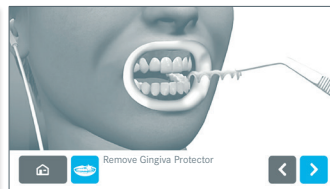
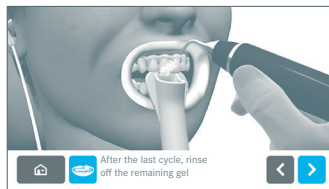
NOTE: The operator must pay attention to the treatment procedure himself. If the fläsh Whitening Lamp is switched off during treatment, the guided treatment starts again from the beginning. The fläsh Whitening Lamp cannot detect whether treatment steps are not being carried out.



Repeat cycle 3 x (max. 4 x)



Follow-up



9. flashcard time management system



120-minute card in a 2-patient kit.

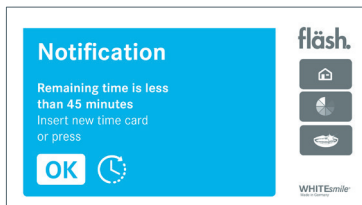
>> Replacement card in the event of a card error. <<

A chip card with 60 minutes of treatment time per gel syringe is provided in each fläsh material kit. The card can simply be inserted into the fläsh Whitening Lamp. The remaining time is saved on the card and can also be used in another fläsh Whitening Lamp.

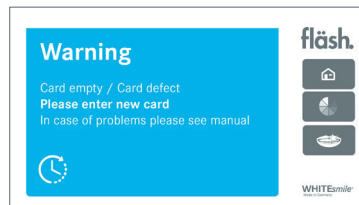
SINGLE MODE for single tooth whitening can be used without time on the card. Please note that even in SINGLE MODE, a card must be inserted in the card slot with a remaining time of at least 1 minute.

In SINGLE MODE, only the middle LED lights up. Do not use for whitening all teeth because the result will be different in the front and side tooth areas.

Note for information only:
Have a new card ready.



Card empty!



10. Signs and symbols



CE symbol



Serial number



Follow the instructions
for use!



Manufacturer



Switch on/off



Year of manufacture



CAUTION



No disposal in
household waste
(WEEE)



Item number



Warning for
optical radiation



Protection class II



Medical device



For indoor use only

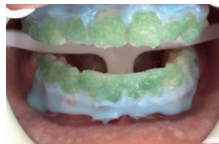
1 1. Carrying out the tooth whitening treatment

1. Perform safety check as described in section 12.1.
2. Do not look into the light source while the LEDs are lit. There is a warning sticker on the lamp head.
3. See the instructions for use of the fläsh Whitening Gel for the whitening procedure and the recommended treatment cycles.

Please note the following information:



Place the fläsh Whitening Lamp directly in front of the patient's mouth, lightly touching the fläsh lip retractor. Ensure that the patient and operator wear the fläsh safety goggles supplied.



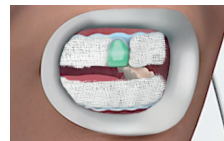
Note: fläsh Light Whitening Gel becomes clear after a few minutes, showing the strong activation by the fläsh Whitening Lamp. The gel continues to be effective and remains on the teeth until the passage is complete and the light of the fläsh Whitening Lamp goes out.



Caution: Application on teeth not covered with gel can lead to a higher temperature on the tooth surface.

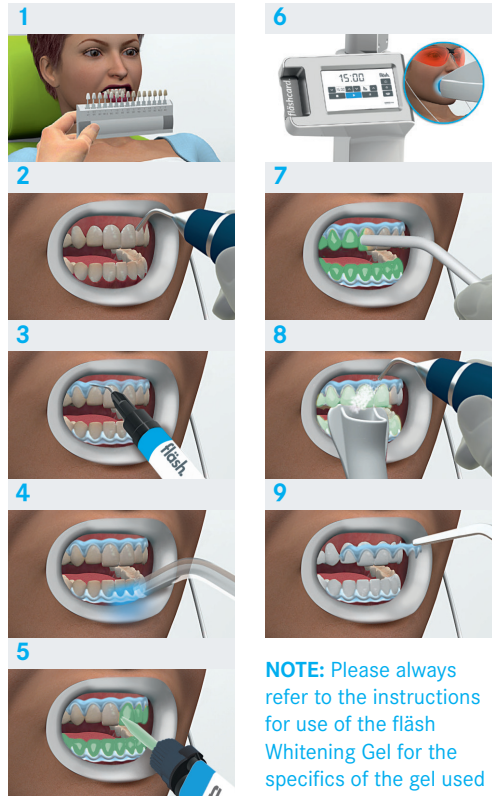


Dentures must be covered with moist gauze.



For single tooth whitening, the other teeth must be covered with moist gauze

Schematic diagram



12. Maintenance and servicing

12.1 Safety checks

Before each use of the fläsh Whitening Lamp, the user must carry out the following safety checks:

1. Make sure that the surface of the fläsh Whitening Lamp has been wipe-disinfected after the last use.
2. Make sure that there is a fresh blue front part at the light output of the lamp head.
3. Check whether the glass in front of the LEDs on the lamp head is clean (free of grease, no dirt) and the LEDs are clearly visible. Do not stick any adhesive tape or other material on the glass in front of the LED.
4. Check whether all 3 LEDs are lit: Wear safety goggles and switch on the fläsh Whitening Lamp in constant mode. If not all 3 LEDs are lit, the fläsh Whitening Lamp must not be used.

No general safety check by a service technician is required. If national or local legal regulations prescribe additional safety tests for your fläsh Whitening Lamp, these regulations must be complied with and the corresponding tests carried out.

12.2 Maintenance

The fläsh Whitening Lamp requires no special maintenance. Due to the long expected lifetime of the LEDs, no change in the performance of the LEDs is to be expected during the service life of the fläsh Whitening Lamp.

The manufacturer only accepts responsibility for the safety of the fläsh Whitening Lamp if the following requirements are met:

Modifications to the fläsh Whitening Lamp or repairs may only be carried out by authorized personnel.

The electrical installations in the rooms in which the fläsh Whitening Lamp is used must comply with the applicable legal requirements.

The fläsh Whitening Lamp must be used in accordance with the instructions contained in this manual.

12.3 Troubleshooting for simple defects

In the event of a fault, proceed as follows:

Even if you insert a flashcard (as described in section 9) into the slot, it is not possible to work with the flash Whitening Lamp: try using a different time card from a different whitening kit or use the replacement card included in these instructions for use. If the problem persists, contact your distributor.

The touchscreen is black – switch the device off. Check that all cables are connected correctly.

Check that the mains switch is switched on. If not, check whether the plug has power and change the fuse as described in section 12.4. If the problem persists, contact your distributor.

The touchscreen is switched on and the process can be started, but the LEDs do not light up: Check the connection of the lamp head. If the problem persists, contact your distributor.

If not all LEDs light up even during constant operation: Contact your distributor.

NOTE FOR SERVICE PERSONNEL:

A service manual for authorized service personnel is available from WHITEsmile for technicians and dental distributors. Please contact info@whitesmile.com.

12.4 Power supply/replacing the fuses

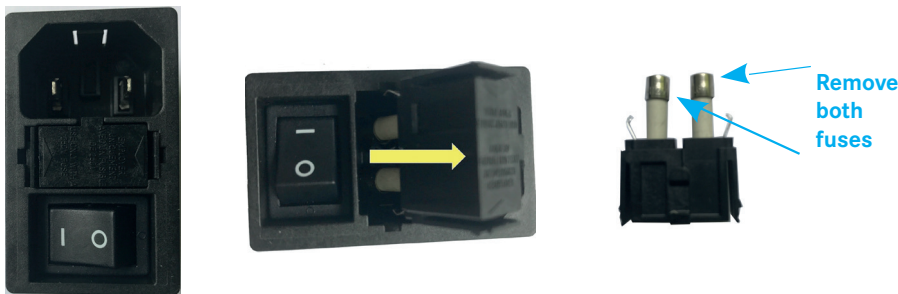
Double power supply switch with the signals "I" for ON and "O" for OFF.
In the event of an emergency stop, press "O" and pull out the mains plug to disconnect the fläsh Whitening Lamp from the power source.

100–240 V - 50 Hz–60 Hz VDE type floating socket.

The mains cable is plugged into the socket under the user interface. Always remove the plug from the socket when you are not using the fläsh Whitening Lamp. Always use 2 fuses with the following specifications: T 1.6A H, 250 V

Instructions for replacing the fuses (can be carried out by the user):

1. Pull out the mains plug.



2. Pull out the fuse box. In case of difficulties, use a small screwdriver.
3. Remove 2 fuses and replace them with 2 new fuses: Replacement fuses are supplied with the fläsh Whitening Lamp. Otherwise, use a fuse in accordance with the specification.
4. Replace the fuse box.
5. Plug the mains plug back in.
6. Switch on the fläsh Whitening Lamp.

Always use the original power cable supplied or a spare part from WHITEsmile.

13. Preparation

13.1 Surface disinfection

Disinfection measures must be taken before and after using the device. Switch off the appliance before cleaning and unplug the fläsh Whitening Lamp from the socket. The device can be cleaned and disinfected by wiping with a soft cloth slightly moistened with non-toxic and non-flammable solvents. Tested, commercially available disinfectants for plastic surfaces are recommended. Avoid the ingress of liquid into appliance parts. Do not use strong solvents.

13.2 Reprocessing instructions for the blue front part and the lip holder

Wear suitable protective gloves and personal protective equipment (PPE) during the entire reprocessing process and ensure that the used lip retractor and the blue front part are cleaned immediately after use to prevent residues from drying.

Rinse both products under lukewarm running water immediately after use to remove coarse soiling. Then clean the products manually with a soft cleaning brush and a neutral medical cleaning agent suitable for medical devices. Make sure that all areas, including hard-to-reach places, are thoroughly cleaned. Then rinse the lip holder and the blue front part thoroughly with clean water to remove all cleaning agent residues and dry both products carefully with a lint-free disposable cloth or allow them to air dry.

Place the completely cleaned and dried products in the autoclave. Select a program for thermal disinfection (e.g. 134 °C for at least 5 minutes or a program according to the autoclave manufacturer's specifications). Make sure that the steam reaches all areas of the product. Both products can be autoclaved 100 times.

Protect the products from contamination by storing them in a clean, dry and protected environment. The products must be visually inspected for damage or wear before each re-use. If there are cracks, deformations or other visible defects, the lip retractor and the blue front part must be removed and replaced immediately. A 3-pack of the blue front part (REF 3704), the lip holders in size S (REF 3491) or size M (REF 3493) can be reordered.



14. Disposal

The expected lifetime of the fläsh Whitening Lamp is 10 years.

In accordance with Directive 2012/19/EU on waste electrical and electronic equipment (WEEE) and country-specific disposal regulations, this device must not be disposed of with household waste. This is indicated by the symbol of the crossed-out dustbin.

Please dispose of the device in an environmentally friendly manner via a certified collection point or a take-back system. For more information, please contact your local waste disposal center or your local distributor.

Other countries

The dental equipment distributors will be happy to provide you with country-specific information.



15. Notes and manufacturer's declaration

The fläsh Whitening Lamp is a medical electrical device that requires special precautions with regard to EMC and must be installed in accordance with the following EMC information:
EN ISO IEC 60601-1

WARNING: Mobile high-frequency communication equipment may affect the fläsh Whitening Lamp. The use of cables or accessories other than those supplied with the fläsh Whitening Lamp may affect the EMC performance.

The fläsh Whitening Lamp should not be placed near other appliances.

All relevant EMC tests were carried out under the working conditions of the intended use.

Any serious incident that has occurred in relation to the device shall be reported to the manufacturer and the competent authority of the Member State in which the user is domiciled.

16. Electromagnetic compatibility

The fläsh Whitening Lamp (= DEVICE) is intended for use in the electromagnetic environment specified below. The customer or user of the fläsh Whitening Lamp should ensure that it is used in such an environment.

Emission measurement	Compliance	Electromagnetic environment – guidelines
Interference voltage on the low-voltage AC mains network 150 kHz – 30 MHz	CISPR 11:2015 +A1:2016+A2 2019 EN 55011:2016 +A1:2017+A11 2020	The device uses HF energy exclusively for its internal function. Therefore, the HF emission is very low and is unlikely to interfere with nearby electronic devices.
Electrical interference field strength 30 MHz – 1 GHz	CISPR 11:2015 +A1:2016+A2 2019 EN 55011:2016 +A1:2017+A11 2020 CISPR 16-2-3:2016 EN 55016-2-3:2017	The device is intended for use in all establishments, including domestic establishments and those directly connected to a public power supply network that also supplies buildings used for domestic purposes.
Harmonics	EN IEC 61000-3-2:2019+A1:2021	Due to the power of < 75 W specified by the manufacturer, no requirements apply to the current harmonics.
Voltage fluctuations / flicker	EN 61000-3-3:2013 +A1:2019	Since the device is a piece of equipment that does not generate any significant voltage fluctuations or flicker due to its low power, compliance with the requirements can be assumed without testing.

Protection from interference

The fl  sh Whitening Lamp is intended for use in the electromagnetic environment specified below.
The customer or user of the fl  sh Whitening Lamp should ensure that it is used in such an environment.

Immunity tests	Test level	Compliance level
Electrostatic discharge (ESD) according to EN 61000-4-2:2009 IEC61000-4-2:2008	± 6 kV contact discharge ± 8 kV air discharge	± 6 kV contact discharge ± 8 kV air discharge
Fast transient electrical disturbances/bursts according to EN 61000-4-4:2012 IEC 61000-4-4:2012	± 2 kV for AC power supply lines	± 2 kV for AC power supply lines
Surges according to EN 61000-4-5:2014+A1:2017 IEC 61000-4-5:2014+A1:2017	sym: 1 kV asym: 2 kV AC power supply lines	sym: 1 kV asym: 2 kV AC power supply lines
Voltage dips, short interruptions and fluctuations in the supply voltage in accordance with EN 61000-4-11:2004 IEC 61000-4-11:2004	0% V_n - 0.5 periods 0% V_n - 1 period 0% V_n - 5 s 70% V_n - 500 ms	0% V_n - 0.5 periods 0% V_n - 1 period 0% V_n - 5 s 70% V_n - 500 ms
Power frequency magnetic fields EN61000-4-8: 2010 IEC61000-4-8:2009	Not applicable	Not applicable
Magnetic fields at close range IEC 61000-4-39: 2017 IEC 61000-4-39: 2017	Not applicable	Not applicable
Electromagnetic fields EN61000-4-3:2006 +A1:2008+A2:2010 IEC61000-4-3:2006 +A1:2007+A2:2010	80 MHz - 1 GHz $E_0 = 3$ V/m 1.0 GHz - 2.7 GHz $E_0 = 3$ V/m 385 MHz $E_0 = 27$ V/m 450 MHz $E_0 = 28$ V/m 710 MHz, 745 MHz, 780 MHz $E_0 = 9$ V/m 810 MHz, 870 MHz, 930 MHz $E_0 = 28$ V/m 1.72 GHz, 1.845 GHz, 1.97 GHz $E_0 = 28$ V/m 2.45 GHz $E_0 = 28$ V/m 5.24 GHz, 5.5 GHz, 5.785 GHz $E_0 = 9$ V/m	80 MHz - 1 GHz $E_0 = 3$ V/m 1.0 GHz - 2.7 GHz $E_0 = 3$ V/m 385 MHz $E_0 = 27$ V/m 450 MHz $E_0 = 28$ V/m 710 MHz, 745 MHz, 780 MHz $E_0 = 9$ V/m 810 MHz, 870 MHz, 930 MHz $E_0 = 28$ V/m 1.72 GHz, 1.845 GHz, 1.97 GHz $E_0 = 28$ V/m 2.45 GHz $E_0 = 28$ V/m 5.24 GHz, 5.5 GHz, 5.785 GHz $E_0 = 9$ V/m

	Electromagnetic environment – guidelines
	Floors should be made of wood or concrete or covered with ceramic tiles. If the floor is covered with a synthetic material, the relative humidity must be at least 30%.
	The quality of the supply voltage should correspond to that of a typical business or hospital environment
	The quality of the supply voltage should correspond to that of a typical business or hospital environment.
	The quality of the supply voltage should correspond to that of a typical business or hospital environment. If the user of the device requires continued operation even in the event of interruptions to the power supply, it is recommended that the device be powered from an uninterruptible power supply or a battery.
	Magnetic fields at the mains frequency should correspond to the typical values found in business and hospital environments.
	Magnetic fields at the mains frequency should correspond to the typical values found in business and hospital environments.
	Portable and mobile radio equipment should not be used closer to the device, including the cables, than the recommended safety distance calculated according to the equation that is appropriate to the transmitting frequency.

Immunity tests	Test level	Compliance level
Induced disturbances 150 kHz- 80 MHz ISM frequency bands EN 61000-4-6:2014 IEC 61000-4-6:2013	AC supply cables $V_0 = 3 \text{ V } 150 \text{ kHz} - 80 \text{ MHz}$ AC supply $V_0 = 6 \text{ V ISM bands}$ 1) 6.765 - 6.795 MHz 2) 13.553 - 13.567 MHz 3) 26.957 - 27.283 MHz 4) 40.66 - 40.70 MHz	AC supply cables $V_0 = 3 \text{ V } 150 \text{ kHz} - 80 \text{ MHz}$ AC supply $V_0 = 6 \text{ V ISM bands}$ 1) 6.765 - 6.795 MHz 2) 13.553 - 13.567 MHz 3) 26.957 - 27.283 MHz 4) 40.66 - 40.70 MHz
Conducted HF disturbance IEC 61000-4-6	$3 V_{\text{eff}}$ 150 kHz to 80 MHz	$3 V_{\text{eff}}$
Radiated HF disturbances IEC 61000-4-3	3 V/m 80 MHz to 800 MHz 3 V/m 800 MHz to 2.5 GHz	$3 V_{\text{eff}}$ $3 V_{\text{eff}}$

Safety distances

Recommended working distances between portable and mobile high-frequency communication equipment and the fl  sh Whitening Lamp. The fl  sh Whitening Lamp is intended for use in an electromagnetic environment in which radiated HF disturbances are controlled. The customer or the user of the fl  sh Whitening Lamp can help prevent electromagnetic interference by maintaining a minimum distance between mobile high-frequency communication equipment (transmitters) and the fl  sh Whitening Lamp as recommended below, according to the maximum output power of the communications equipment.

Rated power of the transmitter [W]	Safety distance according to transmission frequency [m]		
	150 kHz to 80 MHz $d = [1,2] \sqrt{P}$	80 MHz to 800 MHz $d = [1,2] \sqrt{P}$	800 MHz to 2.5 GHz $d = [2,3] \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

	Electromagnetic environment – guidelines
	$d = [1, 2] \sqrt{P}$
	$d = [1, 2] \sqrt{P}$ at 80 MHz to 800 MHz $d = [2, 3] \sqrt{P}$ at 800 MHz to 2.5 GHz where P is the rated power of the transmitter in watts (W) according to the information from the transmitter manufacturer and d is the recommended safety distance in meters (m). The field strength of stationary radio transmitters is lower than the compliance level at all frequencies, as determined by an on-site investigation. Interference may occur in the vicinity of devices with the following symbol:



17. Guarantee

WHITEsmile GmbH or your local specialist retailer will repair or replace the fläsh Whitening Lamp free of charge within the first 2 years of the invoice date in the event of a justified malfunction and normal use. The warranty does not cover any damage resulting from improper use, modifications to the appliance or incorrect use, i.e. deviating from the information in these instructions for use. The guarantee does not include freight costs.

WHITEsmile GmbH authorizes only qualified specialist dealers to repair the fläsh Whitening Lamp.

In the event of a complaint, please contact the specialist distributor from whom you purchased the appliance or contact:

18. Labels and label position

On the lamp body:

flash. Whitening Lamp

TIME ON: 20min, TIME OFF: 1min

  **REF** 3401 

Fuse T1.6A H 250V
100-240 V~, 50-60 Hz, 36 VA
Total mass of lamp 7,5 kg

+EWHI34011/\$\$1227250001B

SN 250001 **MD**  complies with
IEC/EN60601-1  2027

Made in Germany

 WHITEsmile GmbH, Weinheimer Str. 6, 69488 Birkenau, Germany,
info@whitesmile.com, www.whitesmile.com



On the lamp head:

fläsh. Whitening Lamp

no user replaceable parts

**Connect only to
fläsh Whitening Lamp.**



SN 250001H CE MD complies with IEC/EN60601-1 2024
Made in Germany

WHITEsmile GmbH, Weinheimer Str. 6, 69488 Birkenau, Germany,
info@whitesmile.com, www.whitesmile.com



CAUTION: The light emitted may be harmful to the eyes.
Do not stare at the light source.

Attention: La lumière émise peut être dommageable pour
les yeux. Ne pas regarder fixement la source de lumière.

ACHTUNG: Ausgestrahltes Licht kann die Augen
schädigen. Nicht in die Lichtquelle starren.



Notes

Handwriting practice area with horizontal dotted lines.

Blank lined paper with horizontal ruling lines.

fläsh.

Whitening Lamp

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Germany

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E-mail: info@whitesmile.com

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Subject to technical changes and errors in the text.

Instructions for use REF 3621

fläsh Whitening Lamp is Made in Germany

flaesh.com