

# opt-on<sup>®2.7/3.3 TTL</sup>

## **Instructions for Use**





## **1. DEAR CUSTOMER**

## 1.1. Prologue

The product that you have purchased – the **opt-on**<sup>2.7</sup>/**opt-on**<sup>3.3</sup> is stateof-the-art technology and has been produced in accordance with the strictest quality criteria. As we are constantly developing our products further, it is possible that the illustrations and drawings in this document may differ slightly form the product that you have purchased.

These instructions contain an exact description and explain how to use the **opt-on**<sup>2.7</sup>/**opt-on**<sup>3.3</sup>. If you have any additional questions or ideas, we would be pleased to help you by telephone or by email.

These instructions accompany the **opt**-**on**<sup>2.7</sup>/**opt**-**on**<sup>3.3</sup>. Please keep them to hand. If you pass this product on to a third party, please give them this document too as it contains important information on commissioning and handling the product.

Please use these instructions to familiarize yourself with the product before you use it during treatment.

#### 1.1.1. Responsibility of the Manufacturer

The **opt-on**<sup>2.7</sup>/**opt-on**<sup>3.3</sup> is manufactured in accordance with the state-ofthe-art technology and the recognized safety-related rules and regulations.

orangedental GmbH & Co. KG [hereafter referred to as orangedental] only considers itself responsible for the effects on safety, reliability and performance of the device, if:

- >> Assembly, add-ons, readjustments, alterations or repairs are only carried out by persons authorized by orangedental,
- >> the device is used in accordance with the instructions for use.

#### 1.1.2. Responsibility of the Operator

Among other things, the operator is responsible for:

- >> adherence to the accident prevention regulations as well as the regulation concerning the installation, operation and use of active medical products (German regulation MPBetreibV).
- >> the operation.
- >> the maintenance.

- >> the proper and safe condition of the product.
- >> the storage of the instruction manual at the location of use.
- >> following the safety instructions contained in these instructions (see chapter 1.3: Conventions, Symbols Used).

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## 1.3. Conventions, Symbols Used

In these instructions, the conventions set out below indicate important information:

- **WARNING:** This symbol is used if deviating from the procedure described can lead to physical injury or death.
- **CAUTION:** This symbol is used if deviating from the procedure described can lead to damage to the product or to loss of data.
- **IMPORTANT:** The usage of the term **IMPORTANT**, formatted in bold capitals, provides instructions about the use of the device or a process.

**Note:** Notes are used to highlight important or unusual points.

The meaning of the symbols, which are used on this product, its packaging or in these instructions, is listed below.

#### CHECK INSTRUCTIONS

This symbol indicates that this user manual contains important, mandatory instructions which must be followed to comply with the safety standards for the medical product.

#### ATTENTION

This symbol indicates that there are warnings or regulations concerning the product which are not specified on the label. It advises the reader to consult the accompanying documents.

#### MANUFACTURER

This symbol is used in order to display the name and address of the manufacturer of the medical product.

#### DATE OF MANUFACTURE

This symbol indicates the date of manufacture.

#### UDI-DI

This symbol indicates the UDI-DI number and the GTIN.

#### SERIAL NUMBER

This symbol is used to indicate the serial number.

#### MEDICAL DEVICE

This symbol is used to indicate that the product is a medical device.

















#### **CE MARKING**

This symbol, attached by the manufacturer, indicates that the medical product is in conformity with and fulfills all requirements of the medical device regulation (EU) 2017/745.

#### SWISS REPRESENTATIVE

By affixing this mark, the manufacturer indicates its mandated Swiss authorized representative, the so-called CH REP. For orangedental GmbH & Co. KG this task is mandated to:

СН	REP
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Forstgarten International Holding GmbH Rorschacher Straße 302 9016 St. Gallen - Switzerland

## 2. ABOUT THE PRODUCT

## 2.1. Intended Use

The loupe **opt-on**<sup>2.7</sup>/**opt-on**<sup>3.3</sup> is solely used to support the visual inspection / to survey findings/ to aid in treatment by dental professionals using optical magnification in a dental treatment room. There are no known contraindications for the use of the magnifying glasses. There are no restrictions regarding the intended patient group.

#### 2.2. System Components

Loupe Incl. one pair of Varioclips for the needed working distance	lup0499000 (2.7) resp. lup0499100 (3.3)	
lanyard	00.001.934	0100
micro fiber tissue	zub0498210	
Box	zublup0499290	
manual	00.000.527	

## 2.3. Accessories / Spare Parts

All parts can be ordered at your dealer or orangedental.

#### 2.3.1. Spare Parts Loupe Frame

Frame	No. frame	No. right temple	No. left temple	No. frame front
frame A (164) <i>size</i> : L; <i>color:</i> white (6554)	00.002.013	00.002.283	00.002.327	00.002.248
frame A (165) <i>size</i> : S; <i>color:</i> white (6554)	00.002.024	00.002.294	00.002.338	00.002.226
frame A (164) <i>size</i> : L; <i>color:</i> glossy black (6550)	00.002.035	00.002.261	00.002.305	00.002.250
frame A (165) <i>size</i> : S; <i>color:</i> glossy black (6550)	00.002.046	00.002.272	00.002.316	00.002.237
frame A (170) <i>size</i> : L; <i>color:</i> clear (6053)	00.004.263	00.005.051	00.007.367	00.006.063
frame A (171) <i>size</i> : S; <i>color:</i> clear (6053)	00.004.195	00.005.062	00.004.948	00.006.074



Frame	No. frame	No. right temple	No. left temple	No. frame front
frame A (164) <i>size</i> : L; <i>color:</i> brown (former copper matt) (6051)	00.004.296	00.005.073	00.004.950	00.006.085
frame A (165) <i>size</i> : S; <i>color:</i> brown (former copper matt) (6051)	00.004.230	00.005.084	00.004.961	00.005.872
frame A (164) <i>size</i> : L; <i>color:</i> red (6064)	00.004.285	00.005.095	00.004.972	00.006.096
frame A (165) <i>size</i> : S; <i>color:</i> red (6064)	00.004.228	00.005.106	00.004.983	00.006.107
frame A (164) <i>size</i> : L; <i>color:</i> black matt (6071)	00.004.274	00.005.117	00.004.994	00.004.871
frame A (165) <i>size</i> : S; <i>color:</i> black matt (6071)	00.004.217	00.005.128	00.005.005	00.004.882

Description		No.
hinge right	00.002.340	
hinge left		00.002.351
Pads Euro (1pair)	00.002.362	
Pads Asia (1 pair)	00.006.120	
1 pair protection lenses with ocular		individual
1 pair Varioclips	working distance 250 mm=10 inch	zublup0499135
1 pair Varioclips	working distance 300 mm=12 inch	zublup0499140
1 pair Varioclips	working distance 350 mm=14 inch	zublup0499150
1 pair Varioclips	working distance 400 mm=16 inch	zublup0499160
1 pair Varioclips	working distance 450 mm=18 inch	zublup0499170
1 pair Varioclips	working distance 500 mm=20 inch	zublup0499180

#### 2.3.2. Accessories

Description	No.
lanyard	00.001.934
box	zublup0499290
micro fiber tissue	zub0498210
clip in prescription adapter	zublup0499100
clip in prescription adapter for long eye lashes	zublup0499101
individual prescription lenses for clip in prescription	zublup0499250
adapter	
Protect-on face shield complete system incl. 10 face	lup0499300EN
shields	

## 3. INDIVIDUAL FITTING

Your **opt-on**<sup>2.7</sup>/**opt-on**<sup>3.3</sup> has been produced individually for your interpupillary and working distance. You can take the following additional fittings:

## 3.1. Fitting of Nose Pads

There are two different nose pad positions:

>> click in: loupe position high

>> click out: loupe position low



#### 3.2. Inclination

There are three inclination positions. You can change the inclination of your loupe or compensate different height of ears.





## 3.3. Mounting of Lanyard

You can use your loupe with or without lanyard. The lanyard can be slid over the earpiece. By tightening the lanyard you achieve weight relief for your nose.





## 4. INSTALLATION OF EXPENDABLE PARTS AND ACCESSORIES

If your loupe needs to be repaired, you can send the loupe to your dealer or orangedental. Often it is possible just to order the spare parts and mount the parts on your own, to save time and money. You can also change the Varioclips to change the working distance.

## 4.1. Change the Temple

Retract the temple and hold it as shown at the picture.



Push the temple.



To mount the new temple, just press it to the hinge.





## 4.2. Change the Hinge

Remove the temple (see section 4.1: Change the Temple)

Push a solid, pointed tool (e.g. little screw driver) against the small silver round area.

Push the part outside

Remove the broken hinge.

To mount the new hinge, do the same procedure in reverse order.

**Important:** The hinge for the right side is marked with R, the hinge for the left side is marked with L.

The right temple is placed at the right ear! The letters R and L need to face inside the loupe.











## 4.3. Change of Varioclips

If changing the working distance of your loupe is necessary, please contact your dealer to order Varioclips for the needed working distance. Mounting of the new Varioclips is easy. Just follow the written steps:

Remove the Varioclips. Just slide your fingernail or the added enclosed tool between the white and grey/black part.

Slide until your hear CLICK and the Varioclip removes.

Take the Varioclip away.

Pose the new one at the bottom of the ocular.

Slightly push the orangedental logo on the upper side of the clip until your hear CLICK.

Date: 04.09.2024











## 5. SAFETY, SERVICING AND MAINTENANCE

IMPORTANT:	Please read safety instruction opt-on <sup>2.7</sup> /opt-on <sup>3.3</sup>	
IMPORTANT:	Please read manual attentively.	
Attention:	When wearing the loupes do not look directly at the sun or any other bright light source to avoid injuries of your eyes.	4
ATTENTION:	Do not leave the loupe where it is exposed to direct sunlight as this could lead to a fire.	4
Attention:	Do not use that loupe when working with laser light.	
IMPORTANT:	Do not use the loupe when the working area needs to be sterile.	4
IMPORTANT:	Check that the loupe strap is fastened carefully before use.	
IMPORTANT:	Please note that your field of vision is restricted, while wearing the loupe and walking around.	

## 5.1. Cleaning

Clean the loupes and eyepieces carefully using a micro fiber cloth. For coarse dirt, moisten the cloth with alcohol or water, and scrub the dirt off gently.

Note:	Please clean the <b>opt-on</b> <sup>2.7</sup> / <b>opt-on</b> <sup>3.3</sup> immediately after use to prevent that blood or protein residues coagulate.	
CAUTION:	Only clean the loupe if the Varioclips are installed. Do not expose the plastic lens to any liquid as it could scratch the lens when drying it.	
CAUTION:	Only use soft cloths for cleaning and disinfecting. Do not use sharp or scratching objects.	0
5.2. Disin	fection	

CAUTION: Do not submerge the loupe opt-on<sup>2.7</sup>/opt-on<sup>3.3</sup> in water, sterilization, or other cleaning liquids. The loupe opt-on<sup>2.7</sup>/opt-on<sup>3.3</sup> is not waterproof.

**CAUTION:** Do not use aggressive solvents.



**CAUTION:** Any sterilization (autoclave/chemical clave procedures, iodinated agents or other proceedings) is not possible.



## 5.2.1. Disinfection Agents for opt-on<sup>2.7</sup>/opt-on<sup>3.3</sup>

The best way to disinfect your **opt-on**<sup>2.7</sup>/**opt-on**<sup>3.3</sup> is using a medically approved disinfection wipes, offering a broad spectrum of activity against bacteria, fungi and viruses e.g. disinfection wipes:

- Schülke kodan wipes [100g agent solution contain 30g Propan-2ol and 30g Propan-1-ol]
- Schülke mikrozid AF wipes [100g agent solution contain 25g Ethanol and 35g Propan-1-ol]

#### 5.3. Disposal

Die **opt-on**<sup>2.7</sup>/**opt-on**<sup>3.3</sup> can be disposed with the normal waste.

## 6. SPECIFICATIONS AND CONFORMITY



orangedental GmbH & Co. KG Aspachstrasse 11 | 88400 Biberach / Riss CE

## 6.1. Requirements regarding the Practice Environment

**Important:** The loupe **opt-on**<sup>2.7</sup>/**opt-on**<sup>3.3</sup> is solely used to support the visual inspection / to survey findings / to aid in treatment by dental professionals using optical magnification in a dental treatment room.

## 6.2. Technical Data

#### 6.2.1. Loupe Data magnification 2,7x / 3,3x 40 cm Working 25 cm 30 cm 35 cm 45 cm 50 cm distance 10 inch 12 inch 14 inch 16 inch 18 inch 20 inch The working distance of your loupe is written on your loupe ID card Ocular The distance between the oculars has been calculated for your distance pupil and working distance weight 32 gram

## 6.2.2. Ambient Conditions

#### Operation and Storage:

Temperature: Rel. humidity: Air pressure: +10°C to +40°C 25 to 75% 700 hPa to 1060 hPa



#### Transport

Temperature: Rel. humidity: Air pressure: -40°C to +60°C 10 to 90% 500 hPa to 1060 hPa

#### 6.2.3. Conformity with Standards

Classification according to Regulation (EU)2017/745

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## 7. WARRANTY CONDITIONS

#### 1. RELATIONSHIP TO OTHER WARRANTY RIGHTS AND TO NATIONAL LAW

This guarantee does not affect the buyer's rights against the seller arising from the concluded purchase contract. The above warranty conditions apply insofar as they do not conflict with the respective national law with regard to warranty provisions.

#### 2. WARRANTY COVERAGE

Standard warranty: orangedental GmbH & Co. KG grants a warranty of two years for mechanical components of the **opt-on**<sup>2.7</sup>/**opt-on**<sup>3.3</sup> and one year on electrical components, in accordance with the conditions described here, calculated from the date of purchase of the device by the purchaser. If defects occur within this warranty period that are not due to one of the causes listed in section 4, orangedental will either replace or repair the device at its own discretion.

Warranty services other than those mentioned above are not granted.

#### 3. UTILISATION OF THE GUARANTEE

The warranty can only be utilised if the device has been properly set up at the purchaser's premises. In order to be able to check the justification of a warranty service in advance, the warranty service requires that the purchaser or his dealer inform orangedental by telephone about the defect that has occurred. The purchaser will receive a confirmation.

#### 4. WARRANTY CONDITIONS

orangedental only guarantees the proper functioning of the mechanical and electrical components of the devices and does not grant the purchaser any right to free inspection or maintenance of the same or to repair of the device, in particular if the defects are due to improper use.

Defects in wearing parts that are attributable to normal wear and tear are also not covered by the warranty claim.

Furthermore, the warranty does not cover damage to the device caused by:

- improper use or misuse of the device for a purpose other than its normal purpose in non-compliance with the orangedental operating and maintenance instructions.
- connection or use of the device in a manner that does not comply with the applicable technical or safety requirements in the country in which the device is used.
- damage caused by force majeure or other causes for which orangedental is not responsible.

The warranty expires if the device has been repaired or opened by an unauthorised workshop or by the customer himself.

Should it be determined during the inspection of the device by orangedental that the existing damage does not justify the utilisation of warranty claims, the costs of the inspection service shall be paid by the customer.

Furthermore, orangedental promises the purchaser the availability or procurement of spare parts of the aforementioned type for the period of the normal service life of the device, provided that orangedental is actually and legally able to procure such parts with reasonable effort.

The warranty is provided exclusively for the original purchaser of the dealer who purchased the devices from orangedental and is not transferable. Apart from orangedental, no third party (dealer) is authorised to make warranty promises with effect for and against orangedental.

#### 5. LIABILITY

Except in the case of intent or gross negligence, the purchaser shall not be entitled to any claims for damages due to poor performance of the guarantee, in particular not for consequential damages. The liability of orangedental is limited in all cases to the value of the goods of the device.

#### 6. APPLICABLE LAW

German law shall apply to claims arising from the warranty.

