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EN
1st Edition

TECNO-GAZ industries



Orion Light
Surgical light

Specially designed for dental use

ORION LED TECHNOLOGY

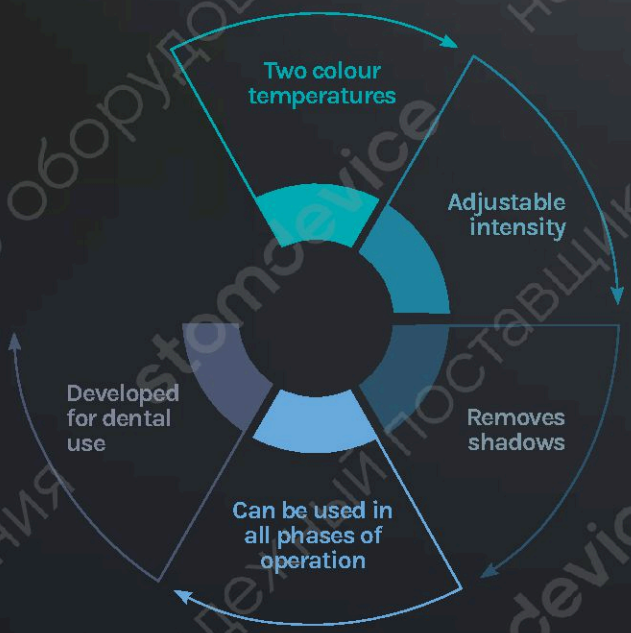
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Light weight and easy to handle: Light

Based on indirect light, a patented and therefore unique technology, ORION LIGHT offers the same quality of light as ORION 40DS and ORION TECH but with a higher handleability.



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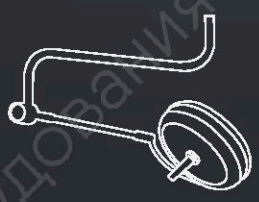


Orion Light

Surgical light

Orion Light is the latest innovation in the ORION range from Tecno-Gaz.
The first ORION lamp was launched in 2011.

In 10 years, ORION surgical lights have become the reference in lighting for dental surgery and implantology.







2011 — 2018 — 2021

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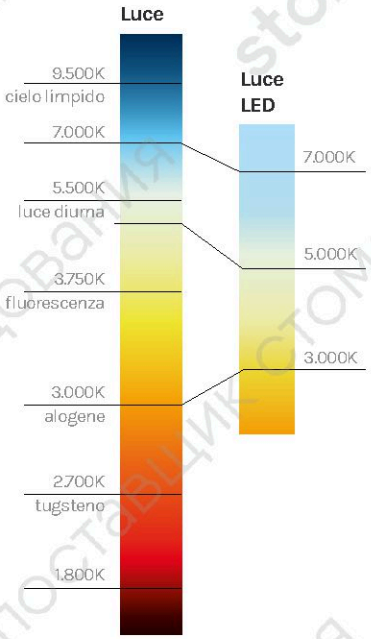
Orion40 Light

Two colour temperatures

Two temperatures for precise use of lighting, safer operations and high quality results.



Ideal field of application (implantology and surgery)







4.500 K

Warm colour temperature to visualise soft tissues such as gums, blood vessels and blood.

5.000 K

Cold colour temperature to reveal hard tissue such as tooth or bone fragments.

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Orion40 Light

Adjustable intensity

Selection menu on the head of the lamp. This extremely precise adjustment allows the intensity to be adapted to the user's visual sensitivity. The high power level allows the lamp to be moved away from the patient's face, increasing the field size if necessary and maintaining sufficient intensity.

Two fields of illumination

A circular field of 24 cm.

An elliptical field of 20 x 14 cm.

The mouth measures 7 x 5 cm, but when moved laterally or vertically, its (virtual) dimension increases.





Uniform Itensity

The intensity selected between 40,000 and 140,000 lux is constant throughout the entire illumination point. All parts of the mouth, in all positions, will therefore receive the same intensity and the same colour. This allows the patient's mouth to be moved without having to manipulate the lamp.

from 40.000 to 140.000 Lux

with levels of 25.000 Lux

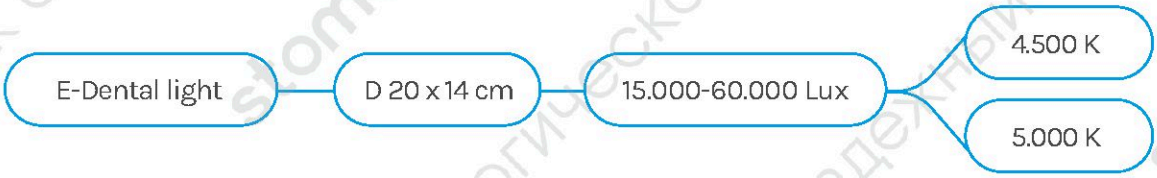
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Dental or Surgery?

Maximum freedom of choice



Choice of colour temperature: suitable for highlighting anatomical structures
Diagnosis of soft/hard tissue
Ideal functionality: implantology, surgery, diagnosis



Dental function

The illuminated field of the "Dental" function at a working distance of 80 cm, is fixed at 20 x 14 cm with a depth of 10 cm.

The light intensity of the "Dental" function can be varied from 15.000 to 60.000 Lux, allowing a working field suitable for any non-surgical dental practice.



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Surgery





Surgery function

The illuminated field of the "Surgery" function, at a working distance of 80 cm, can be varied from 14 to 20 cm by simply pressing a button to enlarge the illuminated field (surgery is mainly performed laterally, so turning the patient's head by 45 °C, minimum light field required is 20 cm).

The variation of the light intensity of the "Surgery" function ranges from 30.000 to 140.000 Lux, allowing a working field suitable for any dental surgery practice.

30 LEDs with indirect lighting. A true scialytic effect.

The light comes from all sides of the lamp, which removes and eliminates shadows.
More comfortable to use, more precise results, less mistakes.



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Depth of field
and autofocus

The 30 cm dome and 30 LED beams are focussed to create a 24 cm field of illumination at a distance of 80 cm. The light beams do not cross each other up to 120 cm, ensuring a significant depth of field to illuminate the mouth deeply.



More comfortable to use

Easier to position

Fewer errors

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TECNO-GAZ Industries

Orion40 Light

Freedom of movement

ORION LED TECHNOLOGY

Lateral, vertical and rotational movement







Available in three versions

Orion Light is available in three versions: wall-mounted, ceiling-mounted or free-standing

Simple installation

On-site adjustment of the column for easier installation

Lightweight and easy

to handle for simple adjustment by the operator

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OrionLight

Technical features

Technical data of the lamp	OrionLight
Lighting E_c at 80 cm ± 10% (Lux)	140.000 Lux
Lighting E_c at 80 cm ± 10% with Dental Care function (Lux)	60.000 Lux
Colour temperature after selection (K)	4.500 K / 5.000 K
Colour rendering index R_a (-)	96
R_9 (-)	90
Light field diameter d_{50} (mm)	140 mm
Light field diameter d_{10} (mm)	240 mm
Maximum irradiance (W/m^2)	580
Irradiance / illuminance (mW/m^2Lx)	3,68
Maximum UV radiation (W/m^2)	0,003

Technical data of the light	
Primary alternating current (Volt ac)	100 ÷ 240
Frequency (Hz)	50/60
Power consumption (VA)	60
Light source	30 Leds
LED light source duration (h)	60.000
Light intensity control (%)	20 - 100

Dimensions	
Lamp body diameter (cm)	40
Light emission area (cm^2)	483 - 762
Weight	Ceiling: 15 kg - Wall: 14 kg - Floor: 23 kg

General data	
Directive	(UE) 2017/745
Product classification	Medical device class 1
Standards	IEC 60601-2-41
Protection class IP	IP20
Colour	RAL 9003
Sterilizable handle	121° C 1,3 bar from 25 to 30 minutes 134° C 2,3 bar from 4 minutes

Available versions

LC001LOO
Orion light ceiling mounted

LC002LOO
Orion light Wall

LC003LOO
Orion light on stand

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