



Operating and Treatment Lights

NEXUS OL-01/OL-02 PROXY OL-03 ONYX TL-01



NEXUS, PROXY and ONYX

Operating and Treatment Lights



Operating light head

Modern Design

Operating lights INFIMED NEXUS and PROXY and treatment lights INFIMED ONYX with LED light source are distinguished by innovative technology and modern design.

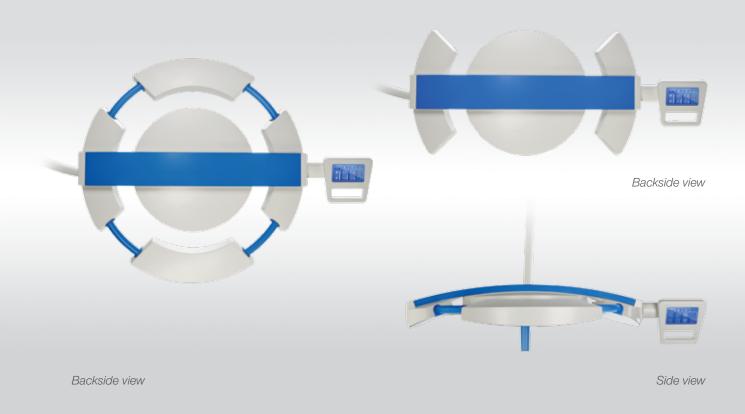
The little weight, ergonomic light heads as well as comfortable handles enable easy and precise set up and positioning of the operating light during surgery.

Waterproof, resistant to environmental factors design and smooth surfaces guarantees ease of disinfection and maintenance for perfect hygiene.

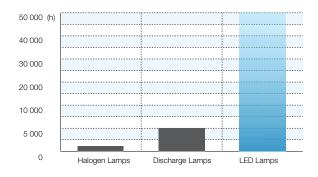
Ergonomic shape of the light minimizes disruption of laminar airflow in the operating theatre. The light head are closed construction, composed of solid, permanently assembled elements.



OL-01 / OL-02 / OL-03 / TL-01



Economy



Low power consumption and high efficiency of LED light sources, provide measurable economic benefits by reducing maintenance costs of the operating theater.

Long lifetime of LED technology light sources, estimated at over 50,000 hours, several times exceeds conventional light sources. There is no frequent replacement of the light sources, significantly reducing maintenance and replacement costs.

Environmental Protection



LED light sources do not contain any heavy metals like lead or mercury which facilitate their future utilization. Aluminium, the main material of LED's can be efficiently recycled. LED light sources does not produce harmful UV radiation.



NEXUS, PROXY and ONYX

Operating and Treatment Lights

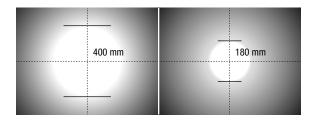


Efficiency

LED technology ensures consistent light distribution and enables almost shadow-free conditions.

Low heat radiation minimize the temperature increase in the surgeon's head area to imperceptible level.

High light intensity and color rendering index facilities surgeries of especially narrow and deep wounds. The illumination is electronically dimmed to provide optimum illumination of operating field. Together with wide range of operating field size adjustment optimal visual conditions are ensured.





Colour temperature adjustment enables changing the contrast of the observed tissue and reduces fatigue of operating surgeon, which affects the comfort and ergonomics of the medical staff.



Adjustable endo light function reduces eye fatigue in case of endoscopic procedures and reflections on the monitors.

OL-01 / OL-02 / OL-03 / TL-01



Operating light head

Parameter of operating light INFIMED NEXUS	OL-01	OL-02
Light intensity Ec	160 000 lx	130 000 lx
Light intensity adjustment	5 – 100%	5 – 100%
Color temperature Tc (without adjustment)	4300K (4800 K)*	4300K (4800K)*
Color temperature Tc (with adjustment)	(3700 – 5000 K)*	(3700 – 5000K)*
Light field diameter d10 at Ec	240 mm (180 – 400mm)*	240 mm (180 – 400mm)*
Working range	600 – 1500 mm	600 – 1500 mm
Illumination depth (L1+L2)	1300 mm	1300 mm
Color rendering index [Ra(1-8)]	> 95 (> 97)*	> 95 (> 97)*
Red color rendering index [R9]	> 95 (> 97)*	> 95 (> 97)*
Endo lighting with adjustable intensity	Green light	Green light
Temperature of light surface after 60 min	< 40,00 ° C	< 40,00 ° C
Increase of temperature near doctor's head	< 1,00 ° C	< 1,00 ° C
Power supply	90 – 250 V AC	90 – 250 V AC
Power consumption	110W	80W
Luminary head voltage	24 – 28V DC	24 – 28V DC
Average service life of the LEDs (h)	> 50 000	> 50 000
Class of protection of light head	IP54	IP54

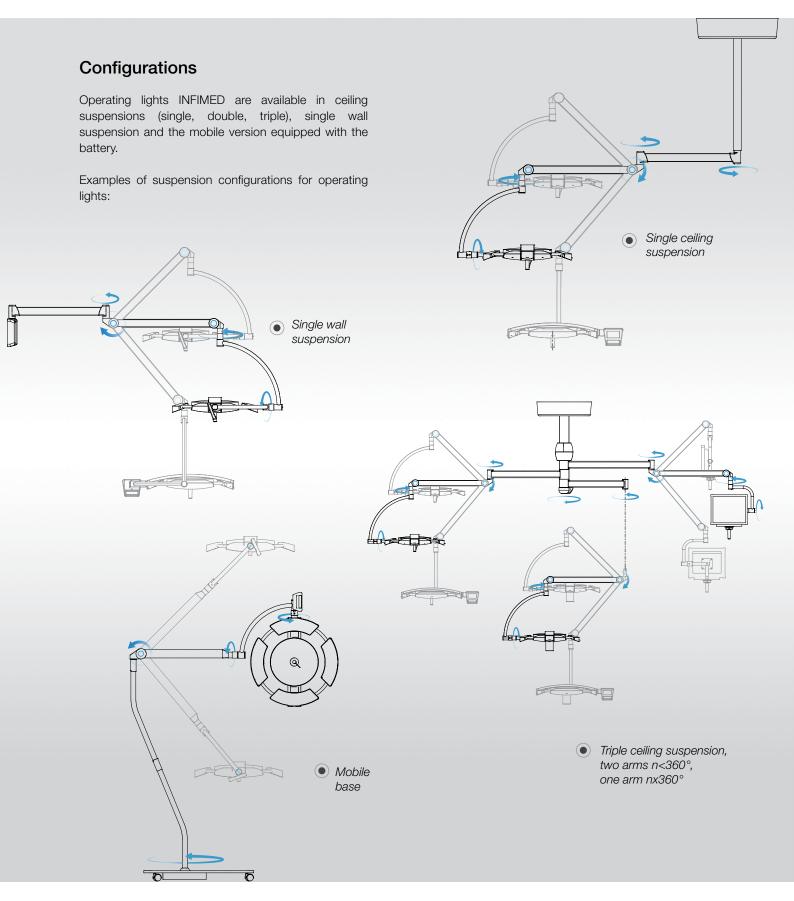
* additional options

Values are subject to a general industry tolerance of +/- 3%

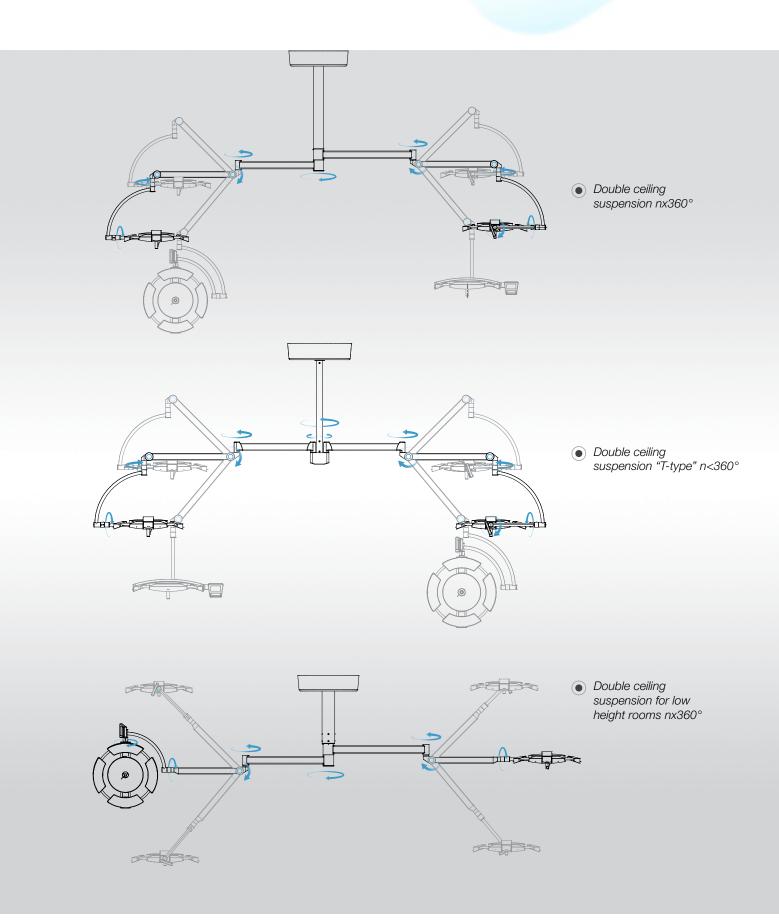


NEXUS, PROXY and ONYX

Operating and Treatment Lights



Configurations









LCD Touch control panel (option)

light field size and color temperature

Controls And Communication

The sensor type control panel (standard) enables adjustment of:

- illumination intensity
- endoscopic illumination intensity
- switching ON/OFF
- light field size (option)
- color temperature adjustment (option)



The LCD type control panel (option) additionally enables adjustment of camera functions (zoom, iris manual, auto, focus manual and auto, stop image, rotation with lock >360 deg.) The LCD type control panel (option)

Addional functions

Measurement of the distance from operating area

The sensor in the light recognises the distance from the operating field and adjust the illumination intensity accorrdingly.

Intelligent shadow management

The sensor in the light perceives the surgeon head when it is directly under the light beam and brighten or dim specific LED's, in order to eliminate the shadows in the operating field.

Functions adjustment with sterile handle

Sterile, plastic, autoclavable control handle can be used to adjust 1-3 of following functions: light insentity, light field size and color temperature.

Synchronic adjustment of more light heads

Light heads adjustments can be synchronised: when adjusting any function of any light head, other light head (s) are adjusted simultaneously.

Infrared pointer

Infrared pointer shows the center of light beam.

Additional Equipment and Functions



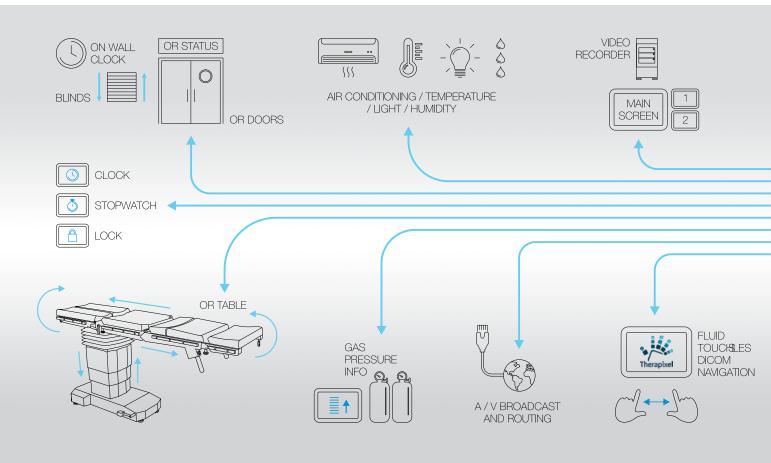
Operating lights NEXUS OL-01 and OL-02 can be equipped with video camera, fixed in the center of the light. Optionally the lights can be delivered with standard sterile, plastic handle, to be exchanged into handle with camera in the future. Sony camera, Full 1920 x 1080/30p High Definition, adjustable from keyboard.

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Camera Specifications	Details
Image Device	1/2.8 type Exmor™ CMOS sensor
Effective Pixels	Approx. 2 million
Digital Zoom 20x	20x (200x with optical zoom)
Horizontal Viewing Angle	54.1° (wide end) to 2.9° (tele end)
Sync System	Internal
Electronic Shutter	1/2 to 1/10,000 s, 21 steps
White Balance	Auto
Focus System	Auto
Exposure Control	AE Control: Auto, Manual, Priority (shutter priority and iris priority)
Video Output	Details
Lens Value	20x Optical Zoom, f=4.7 mm (wide) ~ 94.0 mm (tele), f1.6 to f3.5
S/N Ratio More	More than 50 dB
Signal System	Signal System HD: 1080p/29.97, 1080p/25, 1080i/59.94, 1080i/50, 720p/50, 720p/29.97, 720p/25 SD: NTSC/PAL







Opera control system

Provides better and easier control of the devices in the operating room from a single location. The system is very flexible, open, modular, can be adjusted to comply the client's expectations and requirements, accordingly to the above shown solutions. Can be operated from wall mounted control panel or wirelessly from mobile device.

The product is safe and secure and it is a certified Class I Medical Device manufactured in accordance with the ISO 9001, 13485 and other European standards. It provides a fully intuitive operation thanks to a simple and user-friendly interface, thereby minimizing the possibility of misuse and avoiding improper treatment operations.



Control System OPERA











OL-03 / Operating light head

Operating light PROXY

Is the economical solution of the modern operating light. The light head ensures perfect light parameters and full functionality, providing adjustments of light intensity, light field diameter and color temperature. Nevertheless it is delivered only in one version, without any options and modifications.

The light head cannot be equipped with the video camera fixed in the center, however can be provided seperately on additional arm.

Neither the light cannot be controlled via OPERA control system.

All configurations mentioned on pages 6-7 are possible to implement.



OL-03



OL-03 / Backside view

OL-03 / Side view

Parameter of operating light INFIMED PROXY	OL-03
Light intensity Ec	160 000 lx
Light intensity adjustment	5 – 100%
Color temperature Tc (with adjustment)	3800 – 4800 K
Light field diameter d10 at Ec	230 mm – 400mm
Working range	700 – 1400 mm
Illumination depth (L1+L2)	1200 mm
Color rendering index [Ra(1-8)]	> 96
Red color rendering index [R9]	> 93 (> 95)*
Endo lighting with adjustable intensity	Green light
Temperature of light surface after 60 min	< 40,00 ° C
Increase of temperature near doctor's head	< 1,00 ° C
Power supply	90 – 250 V AC
Power consumption	80 W
Luminary head voltage	24 – 28V DC
Average service life of the LEDs (h)	> 50 000
Class of protection of light head	IP54

* additional options



ONYX Minor operating and treatment Lights



TL-01



Minor operating light ONYX, 100 000 lx with field size adjustment.

Treatment light ONYX, 30 000 lx

Parameter	INFIMED ONYX 60 000/100 00 lx	INFIMED ONYX 30 000 Ix
Light intensity Ec	60 000 lx / (100 000 lx)*	30 000 lx
Dimming range	10 - 100%	10 – 100%
Color temperature Tc	4300K (4800K)*	4300K (4800K)*
Light field size d10 at Ec	260 mm / (240 – 340 mm)*	180 mm
Color rendering index [Ra(1-8)]	> 92 (> 95)*	>92 (>95)*
Red color rendering index [R9]	(>90)*	> 90 (> 92)*
Temperature of light surface after 60 min	< 40,00° C	< 40,00° C
Increase of temperature near doctor's head	< 1,00° C	< 1,00° C
Power supply	90 – 250 V AC	90 – 250 V AC
Power consumption (± 10%)	50W	20W
Luminary heads voltage	24 – 28V DC	24 – 28V DC
Life cycle of the lights	> 50 000	> 50 000
Class of protection of light head	IP54	IPX2





European Union

European Regional Development Fund



For special requirement of the customer it is possible to produce the product with changed technical parameters which do not diminish its safety.

The details given in this catalogue are correct at the time of going to press. Infimed Sp. z o.o., however, reserves the right to improve shown equipment.

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