

LIGHT FOR THE MEDICAL WORKPLACE

TREATMENT AND EXAMINATION LUMINAIRES





LIGHT FOR THE MEDICAL WORKPLACE

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OPTICLUX







IN USE WORLDWIDE



Innovation and premium quality.

Our designers and engineers blaze new trails while keeping proven technologies in mind. We develop light that helps people in their everyday lives and meets their needs — all over the world.



Danderyds sjukhus Hospital, Stockholm, **Sweden**

Private ENT clinic, Wroclaw, **Poland**

Aga Khan University Hospital, Karachi, **Pakistan**

IIUM Medical Center, Kuantang Bahang, **Malaysia**

Ripas Hospital, Bandar Seri Begawan, **Brunei**

Lutetia Clinic, Dubai,
United Arabic Emirates

Singapore -

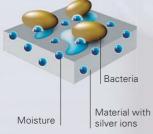
Royal Children's Hospital, Melbourne, **Australia**













www.sanitized.com

Silver ions destabilize the cell membrane of microbes and bacteria

Hygiene in focus.

When developing new luminaires, our engineers pay attention not only to ergonomic comfort but also to the fact that the luminaires are easy to clean in everyday use.

Cleanliness through closed housing.

The closed design reduces the penetration of liquid and dust and makes cleaning surfaces noticeably easier. The removable handles of the treatment luminaries TRIANGO 100 and TRIANGO 80 can be removed with one hand and can thus be optimally sterilized.

Active dirt resistance with antimicrobial hygiene function.

The examination lamp VISIANO 20 is equipped with an antimicrobial Sanitized® hygiene function. The biocidal agent is integrated in critical areas, such as the luminaire top housing. Tests have shown that 99% of bacteria and microbes could be destroyed.

FATIGUE-FREE WORK



Light enlivens tired eyes

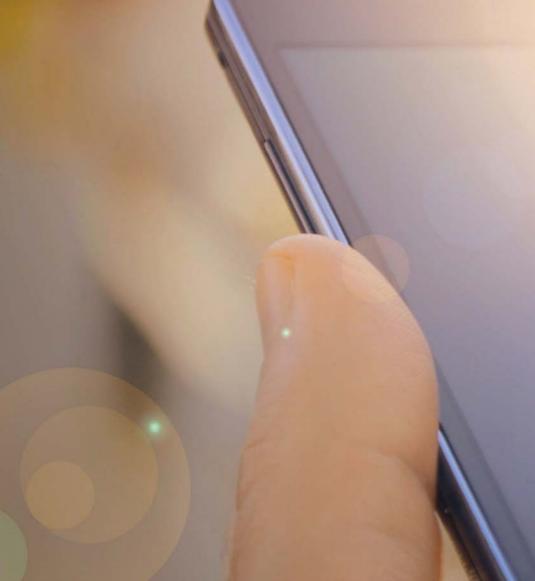
Bad lighting conditions put a strain on our eyes. Headaches, burning eyes and reduced performance can be the result. A homogeneous, glare-free light field relieves noticeably and promotes efficiency. A well thought-out lighting concept should therefore include not only general lighting but also the lights of a medical workplace. The luminaire is very often in use therefore it is important that it reliably supports everyday use and maximizes visual comfort.

Best light conditions

Illuminance, light color temperature and color rendering are optimally matched to the versatile everyday clinical and practice routine. Specially developed optics ensure a homogeneously illuminated work area. Derungs medical lights achieve very good color rendering properties and facilitate diagnosis and treatment. In addition, the lluminance can be dimmed.



ALWAYS THERE FOR YOU







At a glance

With the QR Codes and Short links you can now find the complete information package quickly and easily:

from tender text and lighting technology to ordering data

On our website, the detailed specifications of the products are always up to date and always ready to hand.



Product consulting and sampling

Waldmann's international subsidiaries and dealers work with you to develop an effective lighting concept to suit your needs – from room lighting to individual workstation lighting. Try our medical luminaires with no obligation and see why they're better.

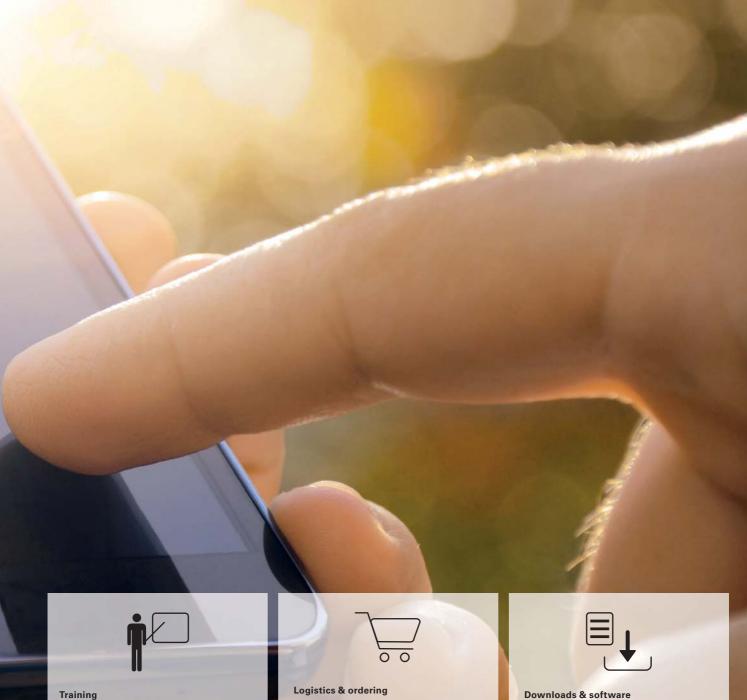


Technical service & maintenance

We help with light planning, implementation and maintenance. In the operating instructions, you will find important notes on installation and care. If you need repairs or replacement parts, you have access to our international service network.

Service, support and partnership.

We not only aim to develop optimal products, but we want to be your optimal partner. That's why we are glad to assist you in all phases of your project, and in all matters of planning, installation and maintenance of our products.



Operating our luminaires is generally intuitive, but light management systems often require training to achieve their full energy savings potential. We prepare facilities managers and service technicians, so that our users can benefit from the best possible work conditions.

If you would like to know more about the product you are interested in or want a quote, your specialized dealer or our lighting consultant can answer your questions. Business customers from Germany, Austria and Switzerland can also order the luminaires directly from the Waldmann web shop.

Downloads & software

Download technical data sheets, product brochures and CAD/BIM data. Those who like to learn about products through brief videos will find various movies on the website and on the Waldmann or Derungs channel on YouTube.



Color rendering

The color impression of a lighted object depends on the spectral composition of the light:

- Cool white light emphasizes blue, violet and green tones.
- Warm white light brings forward red, yellow and orange tones.

Highlighted hues through cool white light



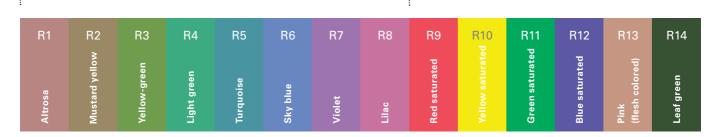
Highlighted hues through warm white light

What is the Ra color rendering index?

The Ra color rendering index (CRI) is for evaluating artificial light sources. This index indicates how true to nature the colors are under a given light source compared to the color rendering under natural light.

The highest Ra value is 100. Ra 100 indicates that all of an object's colors can be recognized as under optimal daylight: They appear "natural" to the viewer. The more the Ra color rendering index diverges from 100, the worse the colors on the lighted object are reproduced.





How is the Ra value determined?

To determine the Ra value of a light source, eight common test colors are generally illuminated, each with a reference light source and the light source to be tested. The smaller the divergence between the reference light source and the light source to be tested, the better the tested light source's color rendering properties.

- Test color R9, especially important for differentiating various red tones in tissue and blood
- Test color R13 is the "flesh color", important for better recognition of veins and blood vessels



OPTICLUX 10 with wood's light.

The special model or version for dermatologists, veterinarians and forensic medicine combines two lighting modes in one device: daylight white illumination and wood's light. This means that different examinations can be performed with just one light. Old-fashioned wood's lights require the room to be completely darkened.

Thanks to powerful BLB LEDs, the Opticlux doesn't need this. That means more time for the patient.

For radiation of certain dermatomycoses to obtain diagnostic indications based on the fluorescence that occurs:

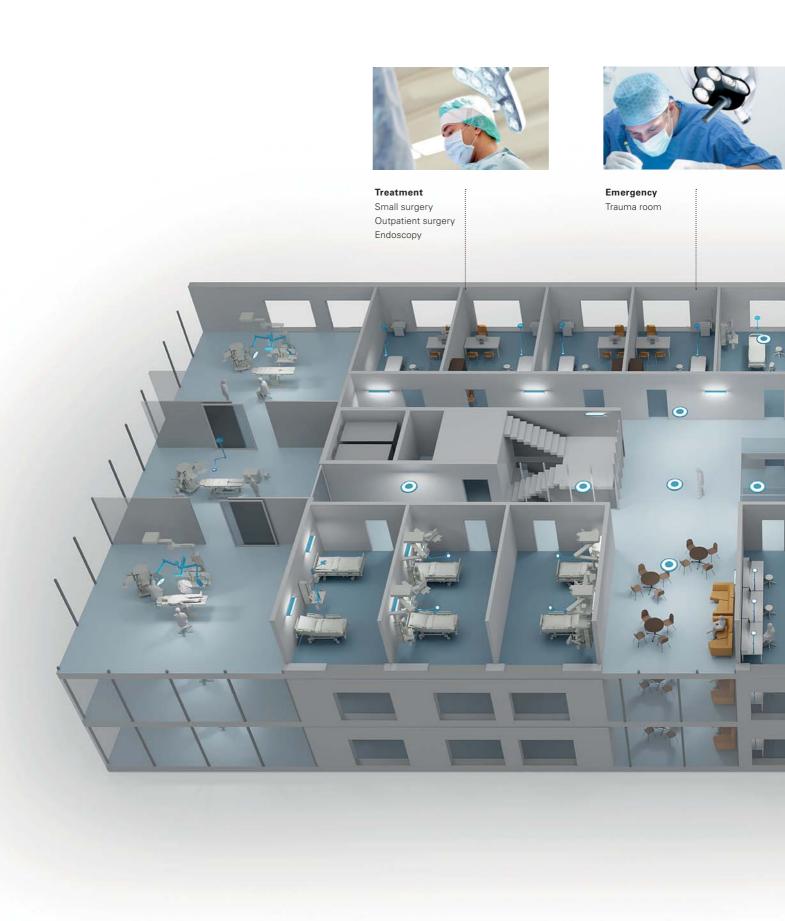
- ERYTHRASMA (red fluorescence)
- MICROSPORIA (weak green fluorescence)
- FAVUS (bilious green fluorescence)
- TRICHOBACTERIOSIS AXILLARIS (yellow ochre colored fluorescence)
- PITYRIASYS VERSICOLOR (yellow ochre colored fluorescence)
- TUBEROUS SCHLEROSIS (blue-white fluorescence versus normal skin)
- VITILIGO (blue/bright white fluorescence of depigmented areas)
- SCABIES (gray-white mite tracks)

Also for fluorescence diagnostics (FD) for in-vivo diagnostics of dysplastic tissues and surface tumors in connection with local or systemically applied pigment, such as PPIX or 5-ALA.



Competence in examination and treatment areas

Medical luminaires from Derungs can be used in different hospital departements and surgeries. Find your application and we help you to find the right luminaire: Choose between various performance and equipment features, as well as fastening options.





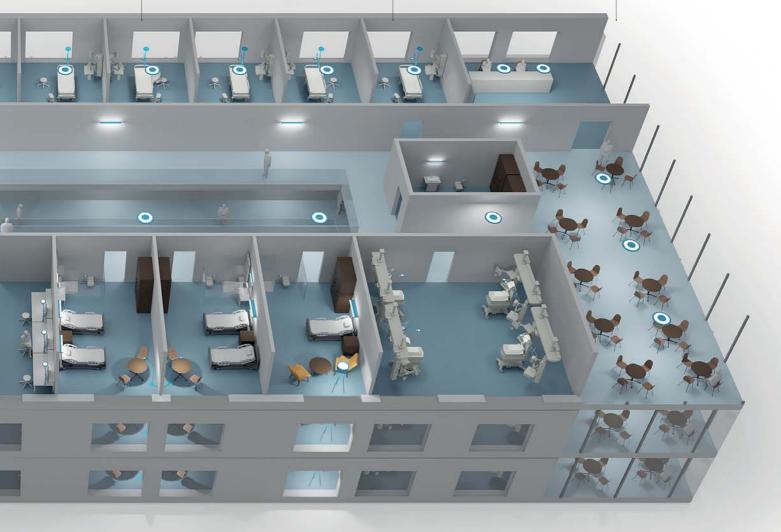




Examination General medicine Dermatology Gynecology Neonatology Anesthesia

Operation room preparation Anesthesia









TREATMENT LUMINAIRES























MAGNIFIER LUMINAIRES

LIGHT FOR THE MEDICAL WORKPLACE

suitable for
Laboratories, medical
practices, clinics, etc.

APPROVED
MEDICAL DEVICE
compliant with
EN 60601-1

Luminaire	Treatment	Surgery preparation	Emergency	Examination	Specialist examination	Intensive care
Treatment Luminaire	Small / Out- patient surgery Endoscopy Delivery	Anesthesia	Trauma room	General medicine. Dermatology Neonatology Paediatrics	Gynaecology & Obstetrics / Urology	
TRIANGO 100	•	0	•	0	•	
TRIANGO 80	•		•	0	0	
Examination Luminai	re					
VISIANO 20		0	0	•		0
VISIANO 10		0		•		•
HALUX N50		0	0	•	0	•
HALUX N30				0	•	0
Magnifier Luminaires						
OPTICLUX				•		
OPTICLUX Hand				•		

- ideally suitable
- O well suited



	A			+ + + +		Class	Illumination
Ceiling	Wall	Roller stand Cable	Roller stand Battery	Pin Universal	Hand lamp Battery	Luminious power Function Design	Lux (Ix)
·	~	·				****	100 000 Lux @ 1.0 m
~	V	~	•			***	60 000 Lux @ 1.0 m
'	~	~		V		***	80 000 Lux @ 0.5 m
	~	V		V		***	50 000 Lux @ 0.5 m
	~	~		✓		***	50 000 Lux @ 0.5 m
	~	~		~		**	30 000 Lux @ 0.5 m
✓	~	~		V		****	6 000 Lux @ 0.15 m
					~	****	8 000 Lux @ 0.15 m

Further variants and technical information online: www.waldmann.com

We are a full provider.

Discover our room and workplace lighting for office and nursing care.



Light and ergonomics

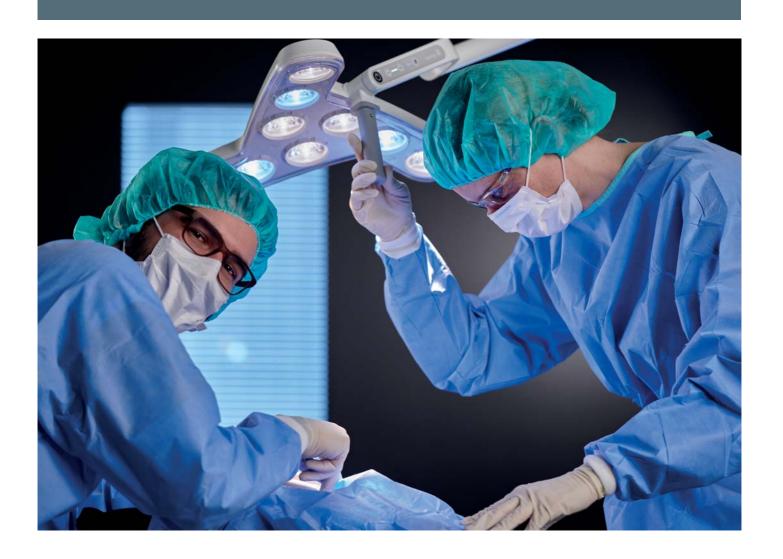
The universally applicable treatment luminaires create the best light conditions for any type of examination and small surgical intervention. High-quality LED technology optimally reproduces color nuances and supports doctors in their daily work. Premium arm systems with a large movement radius and good positioning provide simple, ergonomic operation.

Normative requirements of IEC 60601-1

- Protection class: I or II with PA connection
- No failure safety
- Easy to move
- Illumination intensity 40–160 klx
- D50 to D10 at least 50%
- Color temperature 3,000K to 6,700K
- Color rendering index Ra > 85
- For examination and operating rooms, etc.
- Removable, sterilizable hand grip
- Stable light quality

TREATMENT LUMINAIRES TRIANGO 100











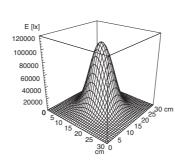
Ceiling Wall

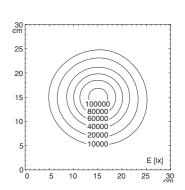
Roller stand Cable

The TRIANGO 100 treatment light is the latest premium product. With 100,000 lux at one meter, it is the highest-performing medical light by Derungs. It is especially good for treatment, minimally invasive interventions and in-depth examinations. The version with Endo mode also offers optimum light for endoscopic treatments. With its first-class features, such as Ra 95 color rendering and LEDs in two different light colors, it also assists medical personnel in fields like dermatology, gynecology and urology. Special versions with focusable light fields extend the applications even further.



reddot winner 2020





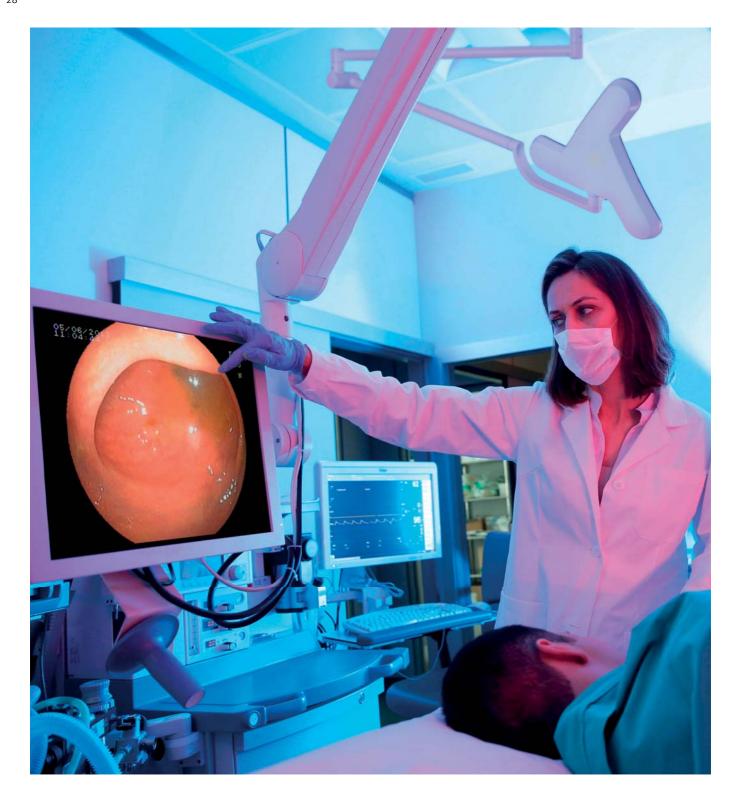
TRIANGO 100 technical data

Luminious power *	100 000 lux @ 1.0 m
Color temperature *	fixed 4,300 K adjustable: 3 700 K / 4 300 K / 4 700 K
Illuminance field @ 1.0 m *	fixed 18 cm focusable: 18–28 cm
Depth of illumination	1.2 m
Color rendering index Ra	95
Usage	keypad at luminaire head
Accessories	sterilizable hand grip, disposable grip cover, intermediate ceiling adapter
Class of protection	T
Norms	EN 60601-1, EN 60601-2-41
System of protection	IP 43 (luminaire head)
Special features	4-stage dimmable, 3-stage color changing (optional), focusable (optional), Endo mode (optional),

maintenance-free



derungs.swiss/triango100

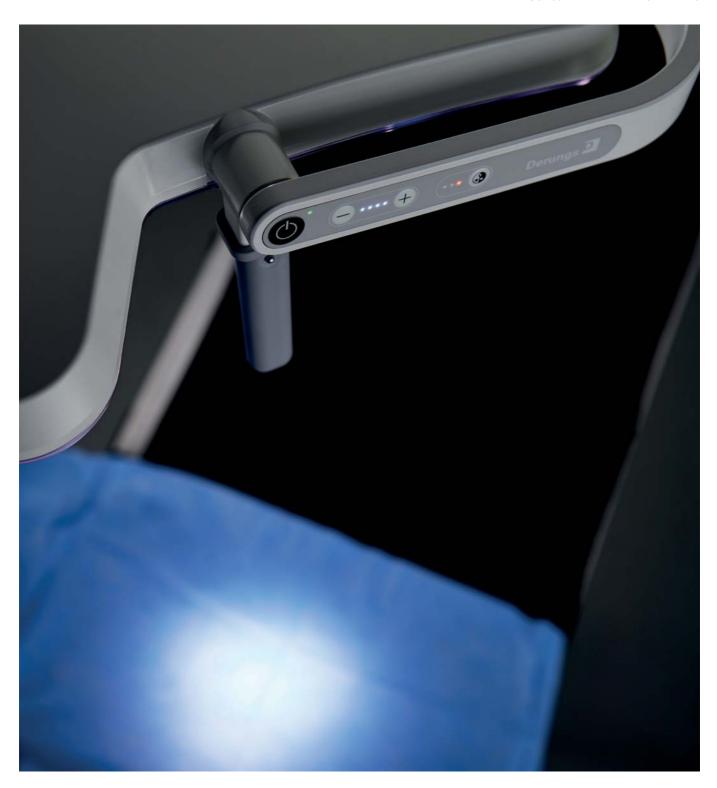


Endo mode.

When doctors perform treatments or examinations on monitors, the illumination intensity can be adjusted so that glare or reflections are reduced to a minimum. If complications occur during the procedure and the patient has to be operated on, the touch of a button brings the full power of 100 000 lux.

Focusable light field.

An adjustable light field gives any doctor a great deal of everyday flexibility. The light can be optimally adjusted to the treatment surface. During treatment to the patient's face, a smaller light field protects from glare. For larger treatment surfaces, a large light field reduces the need to reposition the luminaire.





Intuitive operation Simple operation with an easy-to-reach keypad



Ideal color temperature Optional, adjustable to three levels (3 700 K / 4 300 K / 4 700 K)*



Diamond cluster optics For uniform light with 100 000 lux @ 1.0 m

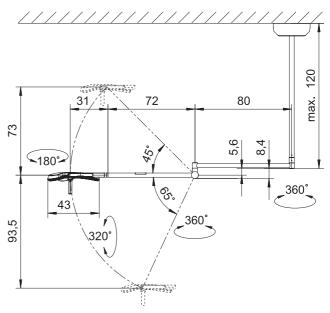


Unique arm system High positional accuracy and long reach

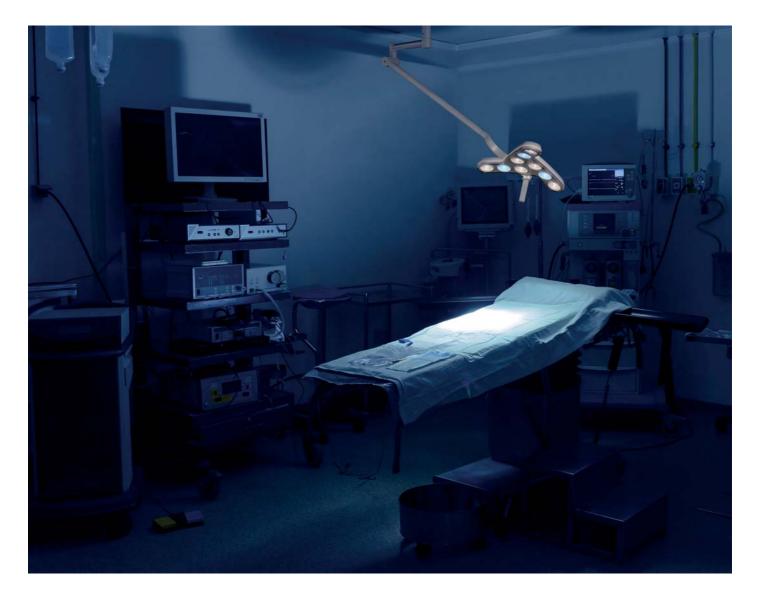
TRIANGO 100



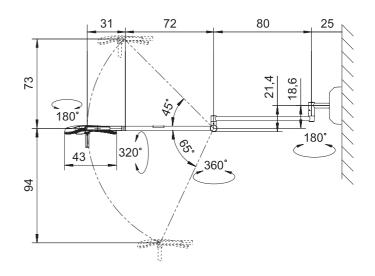




TRIANGO 100 – Ceiling version	Connection	Special features	Order No.
TRIANGO 100-1 C	direct power supply	dimmable	D15.884.000-00802695
TRIANGO 100-3 C	direct power supply	dimmable, 3 color shades	D15.885.000-00803113
TRIANGO Fokus 100-1 C	direct power supply	dimmable, focusable	D15.886.000-00803685
TRIANGO Fokus 100-3 C	direct power supply	dimmable, focusable, 3 color shades	D15.887.000-00803686
TRIANGO Endo 100-1 C	direct power supply	dimmable, Endo mode	D15.972.000-00803704

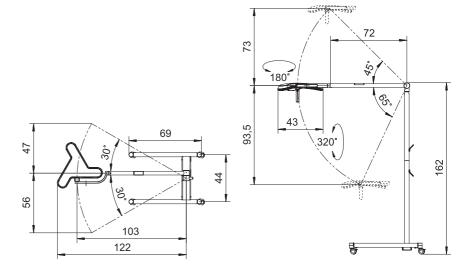






TRIANGO 100 – Wall version	Connection	Special features	Order No.
TRIANGO 100 W	direct power supply	dimmable	D15.888.000-00803663
TRIANGO 100-3 W	direct power supply	dimmable, 3 color shades	D15.889.000-00803114
TRIANGO Fokus 100-1 W	direct power supply	dimmable, focusable	D15.890.000-00803687
TRIANGO Fokus 100-3 W	direct power supply	dimmable, focusable, 3 color shades	D15.891.000-00803688
TRIANGO Endo 100-1 W	direct power supply	dimmable, Endo mode	D15.973.000-00803706

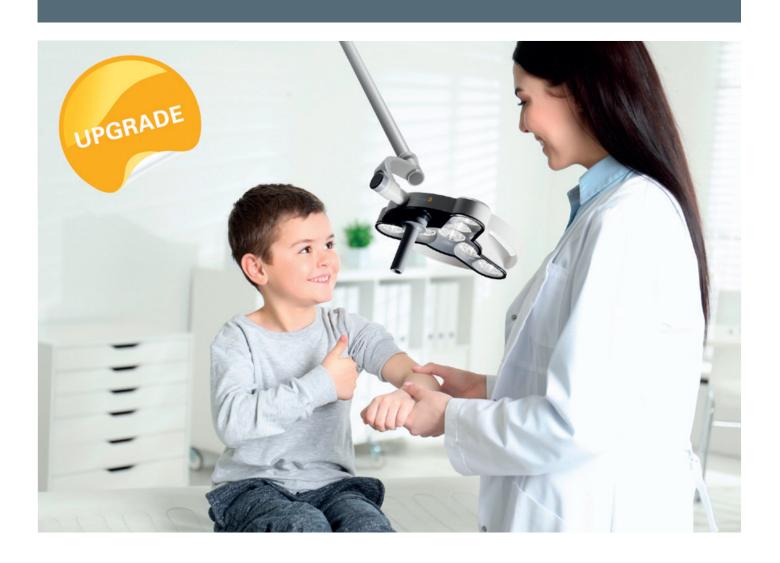




TRIANGO 100 – Roller stand	Connection	Special features	Order No.
TRIANGO 100 -1 F	3.0 m cable, Schuko	dimmable	D15.923.000-00803670 - CH D15.892.000-00803664 - SCHUKO D15.911.000-00803665 - UK
TRIANGO 100-3 F	3.0 m cable, Schuko	dimmable, 3 color shades	D15.924.000-00803671 - CH D15.893.000-00803115 - SCHUKO D15.912.000-00803187 - UK
TRIANGO Fokus 100-1 F	3.0 m cable, Schuko	dimmable, focusable	D15.925.000-00803698 - CH D15.894.000-00803689 - SCHUKO D15.913.000-00803700 - UK
TRIANGO Fokus 100-3 F	3.0 m cable, Schuko	dimmable, focusable, 3 color shades	D15.926.000-00803699 - CH D15.895.000-00803690 - SCHUKO D15.914.000-00803188 - UK
TRIANGO Endo 100-1 F	3.0 m cable, Schuko	dimmable, Endo mode	D15.978.000-00803711 - CH D15.974.000-00803707 - SCHUKO D15.975.000-00803708 - UK

TREATMENT LUMINAIRES TRIANGO 80











Wall



Roller stand Cable

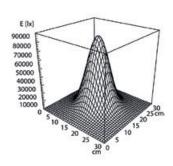


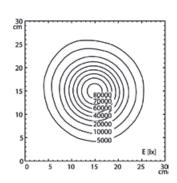
Roller stand Battery

Even better: We have further optimized the proven TRIANGO 30. This luminaire is now called TRIANGO 80 and is suitable for minor interventions. Illuminance has been increased to 80,000 lux at a distance of one metre. The light field diameter has also been increased to 18 cm. A newly developed optical system provides bright and homogeneous illumination of the treatment and examination area. The new linkage enables simple and accurate alignment of the luminaire head. The special handle allows rightand left-handed users to easily position the lamp.



reddot winner 2020





TRIANGO 80 technical data

Luminious power *	80 000 lux @ 1.0 m
Color temperature *	4500 K
Illuminance field @ 1.0 m *	Ø 18 cm
Depth of illumination	1.2 m
Color rendering index Ra	95
Usage	control knob on the luminaire head
Accessories	sterilizable hand grip, disposable grip cover, intermediate ceiling adapter
Class of protection	I
Norms	EN 60601-1, EN 60601-2-41
System of protection	IP 43 (luminaire head)
Special features	continuous dimming, maintenance-free

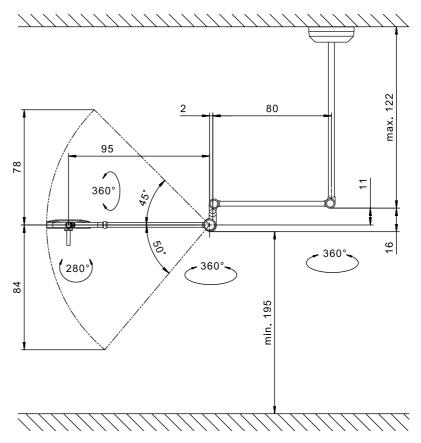


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TRIANGO 80

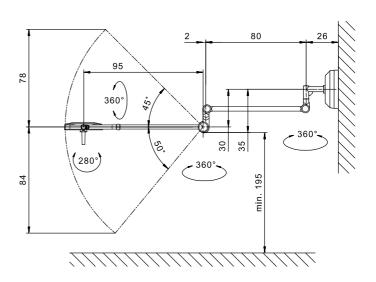




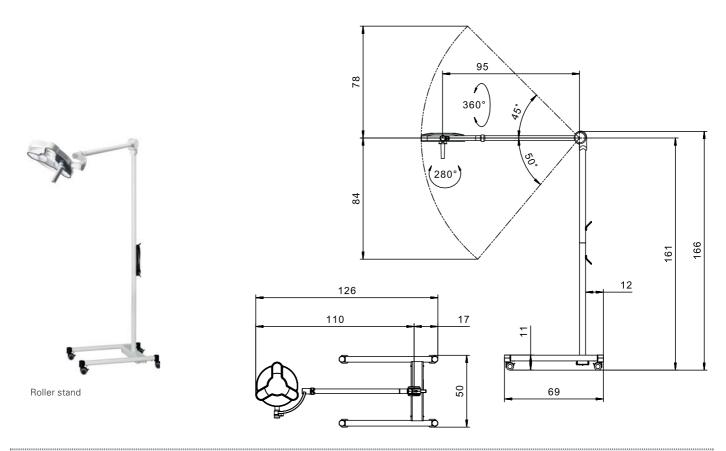


TRIANGO 80 – CEILING VERSION	Connection	Special features	Order No.
TRIANGO 80-1 C	direct power supply	dimmable	D16.131.000-808951





TRIANGO 80 - WALL VERSION	Connection	Special features	Order No.
TRIANGO 80-1 W	direct power supply	dimmable	D16.136.000-808986



TRIANGO 80 – Roller stand	Connection	Special features	Order No.
TRIANGO 80-1 F	3.0 m cable, Schuko	dimmable	D16.132.000-808982 - Schuko D16.133.000-808983 - CH D16.134.000-808984 - UK

Other plugs are available on request.







Design and light technology

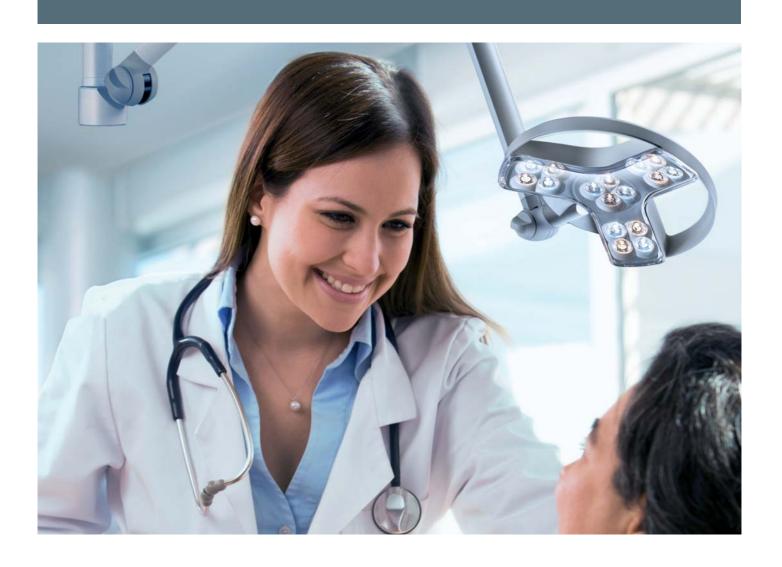
The versatile examination luminaires support localized lighting on the patient's body. Their illumination intensity, light color and color rendering are adapted to assist in diagnosis. The examination luminaires' appealing design, modern light technology and high light quality ensure optimal examination illumination in all medical fields.

Normative requirements of IEC 60601-1

- Easy to move
- Color temperature 3 000K to 6 700K
- Color rendering index Ra > 85
- For examination rooms, etc.
- Stable light quality
- No failure safety

EXAMINATION LUMINAIRES VISIANO 20









Ceiling

Wall





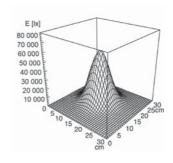
Pin Universal

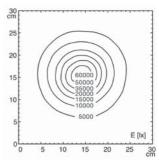
Roller stand Cable

The VISIANO 20 is an examination luminaire with first-class performance and innovative features. At 60 000 lux at 0.5 m, the light field is outstanding for the class. This makes it suitable for many applications: general medicine, dermatology, gynecology, urology, neonatology and anesthesia. In intensive care, emergency and surgery preparation, it assists medical personnel with high quality illumination using LEDs in two different light colors. Unique in this luminaire category is the integrated Sanitized® hygiene function.









-10%/+20% tolerance

VISIANO 20-2 technical data

••••••	
Luminious power *	60 000 lux @ 0.5 m
Color temperature *	3 500 K & 4 500 K
Illuminance field @ 0.5 m *	Ø 21 cm
Color rendering index Ra	95
Usage	keypad on luminaire head
Accessories	suspended Ceiling Adapter
Class of protection	ceiling version I, pin version II
Norms	EN 60601-1, EN 60601-2-41
System of protection	IP 20
Special features	2 color temperatures, 4 dimming levels

antimicrobial surface,

continuously rotating luminaire head

derungs.swiss/visiano20



* -10% / +20% tolerance



Antimicrobial protection against the spread of bacteria

In untreated materials, harmful bacteria and germs multiply within 20 minutes. The integrated antimicrobial Sanitized® hygiene function in the upper luminaire housing helps to keep critical areas hygienic. Tests have shown that 99% of the bacteria and microbes may be destroyed. The biocide is permanently resistant, but is not a substitute for regular cleaning.

Versatile use

The VISIANO's mounting options are as diverse as its potential applications. Whether on the ceiling, wall or roller stand, the completely enclosed housing prevents dirt from entering and settling.









Unique diamond optics for best light color uniformity

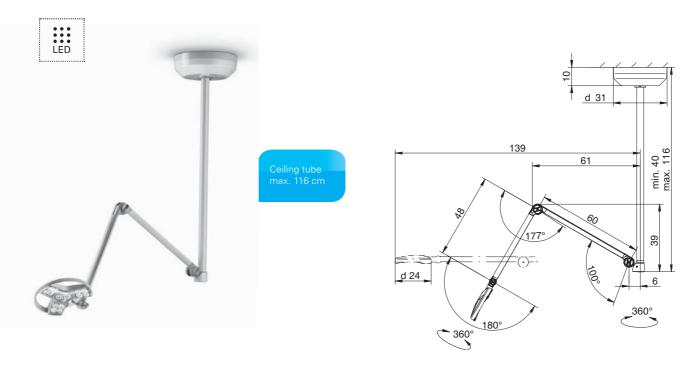


360° turnover axis for maximum light availability



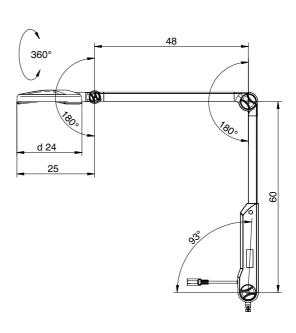
Spring-balanced friction joint for effortless positioning and locking

VISIANO 20



VISIANO 20 – Ceiling version	Connection	Special features	Order No.
VISIANO 20-2 C T1	direct power supply	dimmable, 2 color shades	D15.450.000-00633104





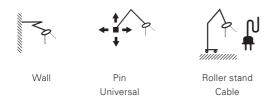
VISIANO 20 – Pin version	Connection	Special features	Order No.
VISIANO 20-2 P TX	1.8 m cable, Euro	dimmable, 2 color shades	D15.451.000-00633107 - Euro D15.456.000-00678230 - UK



EXAMINATION LUMINAIRES VISIANO 10

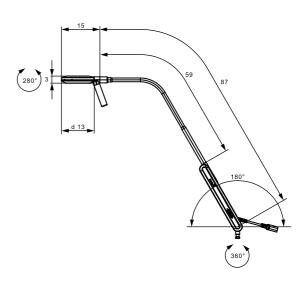






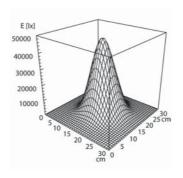
The VISIANO 10 is an examination luminaire reduced to the essentials, but without skimping on professional light technology. With 50 000 lux of illumination intensity at a distance of 0.5 m, it is suitable for general examinations, as well as intensive care and neonatology. The ergonomic hand grip allows easy alignment of the light field.

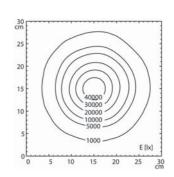




VISIANO 10	Connection	Special features	Order No.
VISIANO 10-1 P S10	1.8 m cable, Euro	Flex arm, ergonomic hand grip	D15.732.000-00689628 - Euro D15.756.000-00712490 - UK

Other plugs are available on request.





Visiano 10-1 technical data

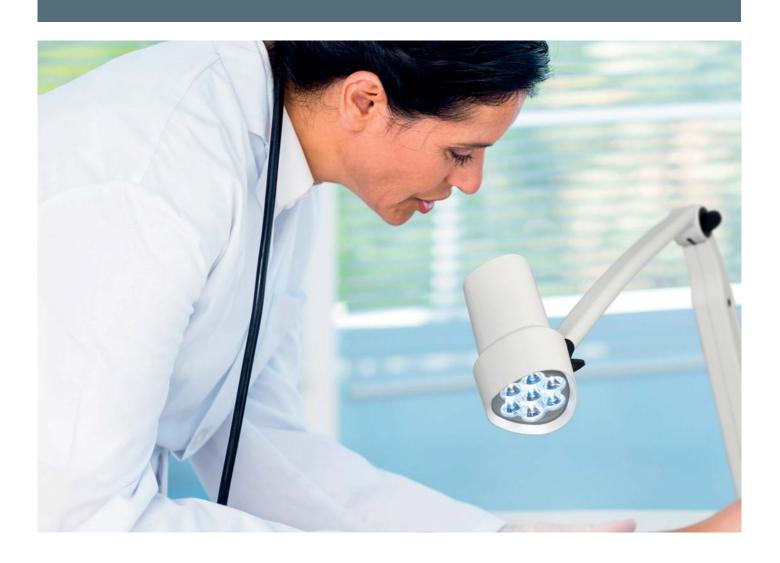
Luminious power *	approx. 50 000 lux @ 0.5 m
Color temperature *	4400 K
Illuminance field @ 0.5 m *	Ø 18 cm
Color rendering index Ra	93
Usage	I/0 switch on the arm
Class of protection	II
Norms	IEC 60601-1
System of protection	IP 20
Special features	hand grip, luminaire head can be turned 280°

* -10% / +20% tolerance

derungs.swiss/visiano10

EXAMINATION LUMINAIRES HALUX N50









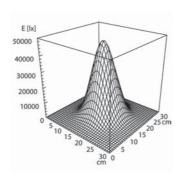


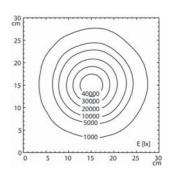
Wall Universal

Roller stand Cable

HALUX N50 is the right luminaire for anyone looking for good lighting quality at a top price. The illuminance of up to 50,000 lux at 0.5 m and the 18 cm light field ensure optimum examination conditions. The neutral white light with very good colour rendition properties facilitates diagnosis. Illuminance can be dimmed in five levels. The arm system also leaves nothing to be desired: Depending on requirements, the luminaire is available with a robust flexible arm or a positionally stable spring arm. Thanks to its closed design, HALUX N50 is easy to clean.







HALUX N50 technical data

Luminious power *	50 000 lux @ 0.5 m
Color temperature *	Fixed 4 400 K Adjustable: 3 300 K / 3 800 K / 4 400 K **
Illuminance field @ 0.5 m *	Ø 18 cm
Color rendering index Ra	93
Usage	Keypad at luminaire head or rocker switch (I/O)
Class of protection	II
Norms	EN 60601-1, EN 60601-2-41
System of protection	IP 20 (luminaire head)
Special features	5 dimming levels **

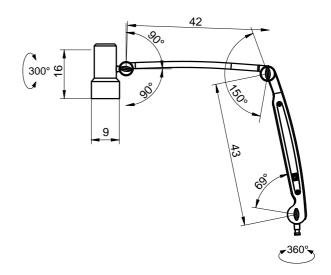


derungs.swiss/halux-n50

HALUX N50



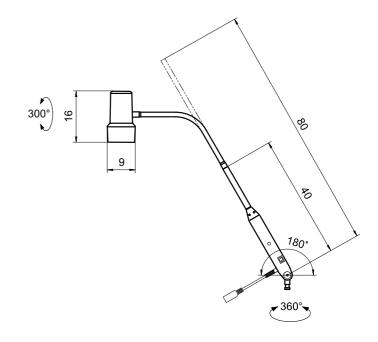




HALUX N50-1	Connection	Special features	Order No.
HALUX N50-1 P FX	1.8 m cable	Spring-balanced arm	D16.012.000-00806681 - Euro D16.037.000-00806685 - UK
HALUX N50-3 P FX	1.8 m cable	Spring-balanced arm , dimmable, colour changeable	D16.013.000-00806682 - Euro D16.038.000-00806686- UK

Other plugs are available on request.





HALUX N50-1	Connection	Special features	Order No.
HALUX N50-1 P SX	1.8 m cable	Flex arm	D16.010.000-00806679 - Euro D16.035.000-00806683 - UK
HALUX N50-3 P SX	1.8 m cable	Flex arm, dimmable, colour changeable	D16.011.000-00806680 - Euro D16.036.000-00806684 - UK

Other plugs are available on request.





Outstanding color rendering

Optimal light color for precise and safe diagnoses



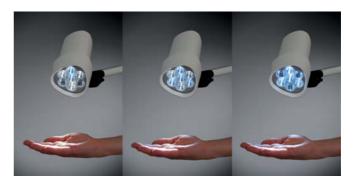
Individual light strength

5-level dimming* makes the light easily adaptable



Intuitive operation

Simple operation with an easy-to-reach keypad*



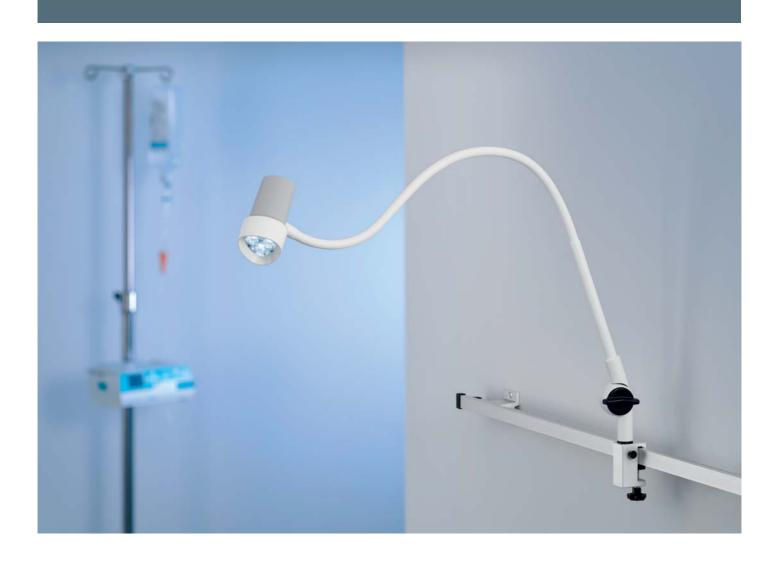
Optimal contrast viewing

Three color levels* for accurate detail and perfect contrast

* HALUX N50-3 Modelle

EXAMINATION LUMINAIRES **HALUX N30**











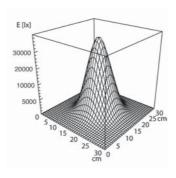
Universal

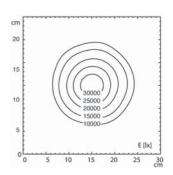


Rollstativ Kabel

HALUX N30 is a solid examination luminaire with uncompromisingly good light and a very attractive price. With a diameter of 18 cm and an illuminance of up to 30,000 lux over 0.5 m, the lighting field is perfectly equipped for versatile everyday use. The good colour rendering properties and the infinitely variable dimming function offer a high level of comfort. The HALUX N30 version is particularly versatile in terms of the possible arm systems: from flexible arm with or without foot joint, with spring arm or rolling stand. The closed construction avoids dirt pockets and is easy to clean.







HALUX N30 technical data

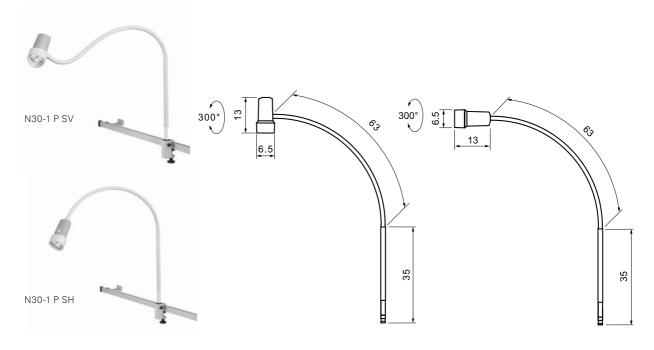
Luminious power *	30 000 Lux @ 0.5 m
Color temperature *	4400 K
Illuminance fi eld @ 0.5 m *	Ø 18 cm
Color rendering index Ra	93
Usage	Keypad at luminaire head
Class of protection	II
Norms	EN 60601-1, EN 60601-2-41
System of protection	IP 20 (luminaire head)
Special features	infinitely dimmable



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HALUX N30



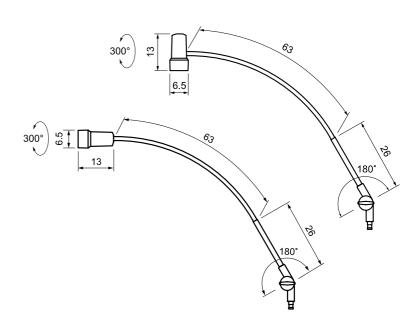


 HALUX N30-1 P S	Connection	Special features	Order No.
HALUX N30-1 P SV	1.7 m cable	Flex arm , dimmable	D15.990.000-00806673 - EU, UK, US, AUS
HALUX N30-1 P SH	1.7 m cable	Flex arm , dimmable	D15.991.000-00806674 - EU, UK, US, AUS

Other plugs are available on request.







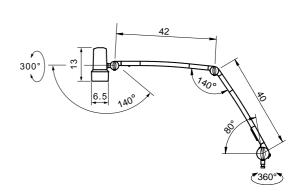
 HALUX N30-1 P SG	Connection	Special features	Order No.
HALUX N30-1 P SGV	1.7 m Kabel	Flex arm with foot joint, dimmable	D15.992.000-00806675 - EU, UK, US, AUS
HALUX N30-1 P SGH	1.7 m Kabel	Flexarm with foot joint, ddimmable	D15.993.000-00806676 - EU, UK, US, AUS

Other plugs are available on request.

HALUX N30







HALUX N30-1 P F1	Connection	Special features	Order No.
HALUX N30-1 P F1	1.7 m cabel	Flex arm with foot joint, dimmable	D15.994.000-00806677 - EU, UK, US, AUS

Other plugs are available on request.



Attachment of the luminaire head from the side or from behind



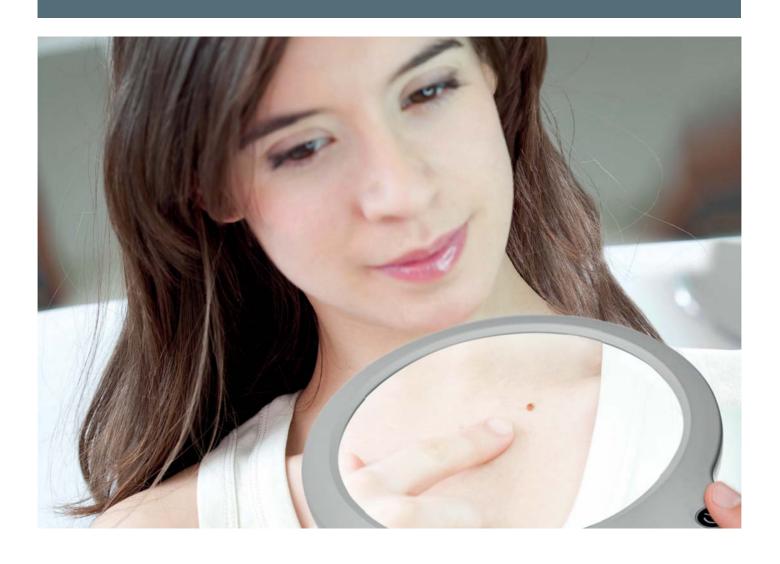


Optimal enlargement

Eyesight can often reach its limits in demanding medical tasks. Distortion free enlargement under optimal light conditions is needed. Magnifier luminaires illuminate details to their greatest precision, because they are designed for in-depth examinations and analysis in the dialog with the user.

MAGNIFIER LUMINAIRE OPTICLUX Hand

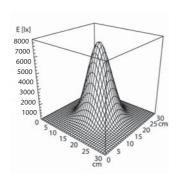


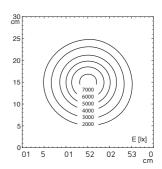




The new OPTICLUX hand-held magnifier luminaire with ergonomic handle provides support for demanding visual tasks. This is ensured by the large dimmable light field in daylight quality, excellent colour rendition properties and long battery life. Dermatologists and veterinarians can look forward to the powerful Wood's light, which is available as an option to the daylight mode. But also users in other medical areas or in industry, will find the new OPTICLUX hand magnifier light their everyday life.







OPTICLUX Hand technical data

Luminious power *	8 000 lux @ 0.15 m
Color temperature *	6 500 K
Lens diameter *	Ø 16 cm
Color rendering index Ra	95
Usage	keypad at luminaire head
Class of protection	II
Norms	IEC 60601-1, IEC 60601-1-2
System of protection	IP 20
Special features	dimmable, maintenance-free, rechargeable battery with USB C charging interface,

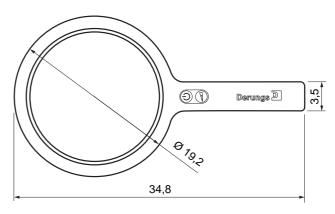
wood's light mode (optional), lens cover



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OPTICLUX Hand









OPTICLUX Hand - manual version	Connection	Special features	Order No.
OPTICLUX Hand 10-2 UV (wood's light)	battery-powered manual version	dimmable, wood's light	D16.005.000-807073 - EURO
OOPTICLUX Hand 10-1 DL	battery-powered manual version	dimmable	D16.004.000-807072 - EURO

Other plugs are available on request.



ErgonomicOptimal handling for right- and left-handers



Easy to handleKeypad on the handle with stepless dimming controls



Outstanding light
Unique light output with 8 000 lx at 0.15 m for a true-to-life color rendering





Battery powered Up to 3 hours runtime, convenient charging through USB-C port



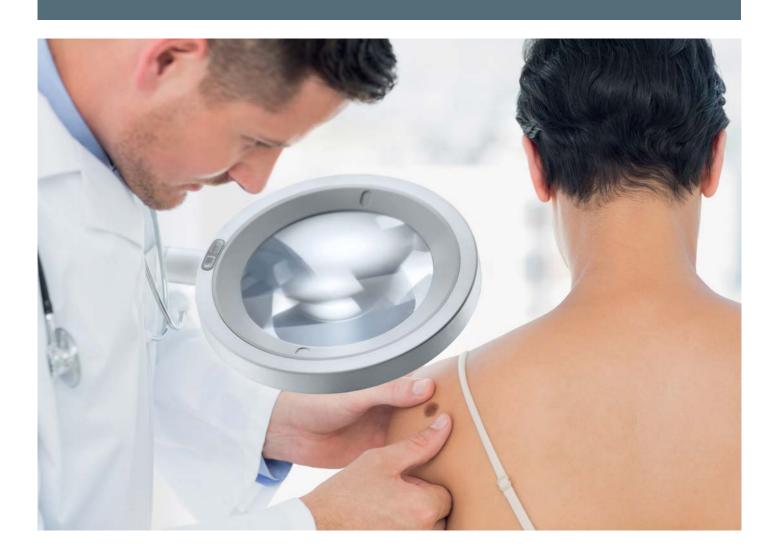
Especially for dermatology * Two lighting modes in one device: optional Wood's light for examining skin variations, lesions and pigment changes



Optimally protected High quality felt cover protects the lens from scratches and sun exposure

MAGNIFIER LUMINAIRE OPTICLUX 10









Ceiling

Wall





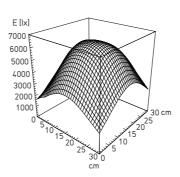
Pin Universal

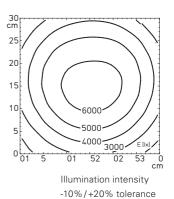
Roller stand Cable

OPTICLUX 10 magnifier luminaires combine a robust magnifying glass with outstanding light quality and ergonomic operation. As a proven medical device, they can be versatilely used in dermatology, clinics and practices for dental, human and veterinary purposes, in laboratories and in the monitoring of sterilization goods.









OPTICLUX 10 technical data

Luminious power *	6 000 lux @ 0.15 m
Color temperature *	6 500 K
Lens diameter *	Ø 16 cm
Color rendering index Ra	93
Usage	keypad at luminaire head
Class of protection	ceiling version I, pin version II
Norms	EN 60601-1, EN 60601-2-41
System of protection	IP 20
Special features	dimmable, maintenance-free,

wood's light mode (optional), lens cover

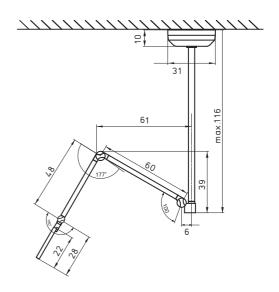
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OPTICLUX



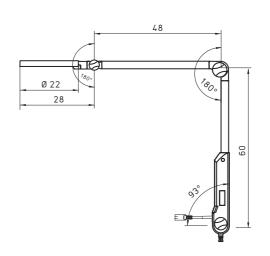




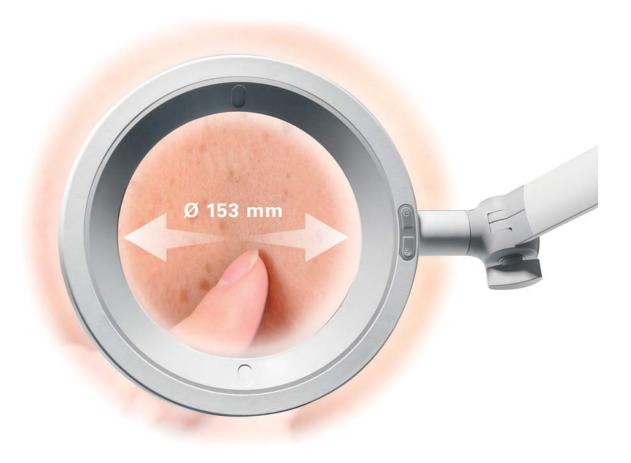


OPTICLUX 10-2 C T1 direct power supply dimmable, wood's light D15.816.000-00752633 OPTICLUX 10-1 C T1 direct power supply dimmable D15.817.000-00752639	OPTICLUX 10 – Ceiling version	Connection	Special features	Order No.
OPTICLUX 10-1 C T1 direct power supply dimmable D15.817.000-00752639	OPTICLUX 10-2 C T1	direct power supply	dimmable, wood's light	D15.816.000-00752633
	OPTICLUX 10-1 C T1	direct power supply	dimmable	D15.817.000-00752639





OPTICLUX 10 – Pin version	Connection	Special features	Order No.
OPTICLUX 10-2 P TX	1.8 m cable, Euro	dimmable, wood's light	D15.814.000-00752615 - EURO D15.851.000-00752645 - UK
OPTICLUX 10-1 P TX	1.8 m cable, Euro	dimmable	D15.815.000-00752618 - EURO D15.850.000-00752642 - UK





Excellent field of vision

Due to large magnifier diameter (Ø 160 mm, 3.5 dpt) and strong, dimmable illumination (6 000 lx / 0.15 m)



Reliable color rendering

Premium 6 500 K LEDs ensure less shadow formation and optimal color rendering (CRI / Ra ≥ 93, R9 = 90, R13 = 95)



Special for dermatology *

Two lighting modes in one device: optional UV-A (wood's light) for examining fluorescent lesions and pigment changes



Ergonomic handling

Spring balanced arm and internal friction joints allow smooth handling without the luminaire head sinking



Long service life

High-quality, scratch-resistant acrylic lens and precision components guarantee long service life



Flexible positioning

Long luminaire arm allows a broad reach up to 142 cm

*Depending on version







HAND GRIPS

suitable for	Spec	cifications	Order No.
TRIANGO 80, TRIANGO 30	sterili	izable	D10.295.000-00703690
TRIANGO 100	sterili	izable	D10.442.000-00802948
TRIANGO 100, TRIANGO 80, TRIANGO 30	-		D15.445.000-00714913
sterilizable hand grip TRIANGO 80 TRIANGO 30	sterilizable hand grip TRIANGO 100	disposable grip cover for all TRIANGO models	
	TRIANGO 100 TRIANGO 30 TRIANGO 30 sterilizable hand grip TRIANGO 80	TRIANGO 100 steril TRIANGO 100, TRIANGO 80, TRIANGO 30 - sterilizable sterilizable hand grip TRIANGO 80 TRIANGO 100	TRIANGO 100, TRIANGO 80, TRIANGO 30 - Sterilizable hand grip TRIANGO 80 TRIANGO 30 - Sterilizable hand grip TRIANGO 80 TRIANGO 100 TRIANGO models



FASTENING HARDWARE

Table clamp	VISIANO 20, VISIAN	VISIANO 20, VISIANO 10, HALUX LED 20, OPTICLUX 10					
	Material	Specification	ns		Order No.		
	polyamide steel	black	0.350 kg	0–70 mm	D14.228.000-00625467		
₩.	For luminaires with 1	6 mm pin fastenin	g.				

Universal mount	VISIANO 20, VISIANO	VISIANO 20, VISIANO 10, HHALUX N50 / N30, OPTICLUX 10						
	Material	Specifications			Order No.			
6	polyamide GF	pure white	0.09 kg	60 x 60 x 60 mm	D13.430.000-00627986			
	For luminaires with	16 mm pin fastening.						

Rail clamp	Rail clamp VISIANO 20, VISIANO 10, HALUX N50 / N30, OPTICLUX 10						
	Material	Specifications			Order No.		
	aluminum	natural anodized	0.16 kg	25–35 x 8 – 10 mm	D13.269.000-007069		
For luminaires with 16 mm pin fastening.							

Wall bracket	VISIANO 20, VISI	VISIANO 20, VISIANO 10, HALUX N50 / N30, OPTICLUX 10					
	Material	Specifications		Order No.			
12, 1	polyamide GF	pure white	0.14 kg	D13.231.000-00522182			
	For luminaires with	16 mm pin fastening.					

Wall bracket		VISIANO 20, VISIANO 10, HALUX N50 / N30, OPTICLUX 10					
	Material	Specifications		Order No.			
	aluminum	pure white	0.15 kg	D15.435.000-00659957			
		h 16 mm pin fastening.					



FASTENING HARDWARE

Standard wall track system 25 x 10 mm	VISIANO 20, VISIANO 10), HALUX N50 / N	N30, OPTICLUX 10	
Standard: EN ISO 19054	Material	Specifica	ations	Order No.
	aluminum natural anodized	2.5 kg	length 1 m, incl. 2 mounts	D13.505.000-00647049
	aluminum natural anodized		length 1.5 m, incl. 3 mounts	D13.506.000-00630687
	80 mm double mount for	wall track	complete project-related lengths on request, up to 6 r	D56.045.000-00647052 m
	Rai	l clamp	Double track (mount for connecting wall tracks
44 60 61				

Mat	 Specifications	
		Order No.
Ø30.5 Ø30.5 E6. wew 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	max. 93 cm,	D15.074.000-00632785



FASTENING HARDWARE

Roller stand	VISIANO 20, VISIANO 10, HALUX N50 / N30, OPTICLUX 10						
	Material	Specifications			Order No.		
	steel For luminaires v	Tube: white Base: plastic Casters: plastic double casters, with 5 brakes vith 16 mm pin fastening.	7.5 kg	1 m, Ø 700 mm	D15.595.000-00656247		

OTHER ACCESSORIES

Extension arm	VISIAN	ISIANO 20, VISIANO 10, HALUX N50 / N30, OPTICLUX 10						
	Ma	aterial	Specifications			Order No.		
		wder-coated eel / steel pipe	pure white	approx. 0.65 kg	400 m, Ø 16 mm	D13.363.000-00647314		
		r luminaires with 16						

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