



NOVA.light 500X

SURGICAL LIGHTS

NEXOR
HEALING ENGINEERING

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Model: NOVA.light 500X
Version: 1.1 01-2026

TECHNICAL SPECIFICATION TABLE

SURGICAL LIGHTS

TECHNICAL DATA NOVA.light 500X

GENERAL DATA

Weight of the light head [kg]	9,5
LED quantities	42
Lifetime of LED light source [h]	> 60.000
Rotation [°]	360°
Sterilizable handle per light head	Yes
Sterile handle cover single use (optional)	Yes
IP protection class	IP 54
Material of the light head	Monocoque aluminum
Camera preparation	Yes - Wireless HD 4K (Upon request)
Light emitting surface	768 cm ² - PMMA
Diameter light head [mm]	700 (approx)
Exact dimensions [LxWxH] [mm]	640 x 580 x 40
Mobile version	Yes
Mobile version with battery	Yes
Charging time of battery from 0 % to 100 % [h]	4
Battery backup mobile version [h] at 80% of max. intensity	> 5
Remote control	Optional

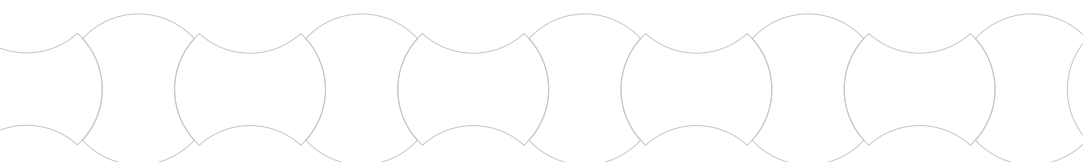
CONNECTION VALUES

Voltage range [V]	100 - 230 VAC 50/60 Hz
Nominal voltage [V]	24
Power intake [W] Power supply per light head	75

TECHNICAL LIGHT PROPERTIES

Light intensity at 1 m distance [lux]	160.000
Dimming range [klx]	40 - 160
Dimming range [%]	25 - 100
Light field diameter (d10) in 1 m distance / small light field [mm]	180
Light field diameter (d50) in 1 m distance / small light field [mm]	100
Light field adjustment [mm]	180 - 290

Tolerance $\pm$ 10%; technical specifications are subject to change



d50 / d10 Ratio	0,55
Field adjustment	4 steps
Type of field adjustment	Electronic
Illuminance with standard tube, related to EC [%]	100
Illumination intensity with one mask, (with or without tube) based on EC [%]	87
Illumination intensity with two masks, (with or without tube) based on EC [%]	62
Ee/Ec Ratio [mW/m2 lx]	≤3
Total irradiance Ee [W/m2]	550
Color rendering index Ra	98
Rendering index R9 (Red) / R13 (Skin)	98
Color temperature adjustable in 4 steps of 500 [K]	3.500 - 4.000 - 4.500 - 5.000
Luminous efficiency [lx/W]	2.130
Increased temperature in the head area [°C]	<1
Depth of light field L1 + L2 [mm] 20%	1.500
Depth of light field L1 + L2 [mm] 60%	660
Endo mode Endoscopic lighting	Yes / Non dimmable
Ambient lighting [lux]	Approx 8.000
Maximum blue lighthazard weighted radiance (Im) [w/m²]	165

ENVIRONMENTAL CONDITIONS DURING USE

Operating temperature [°C]	5 - 40
Relative maximum humidity [%]	95

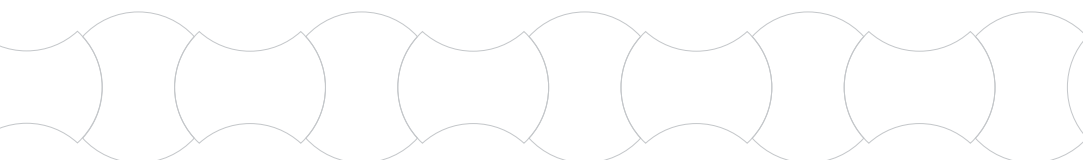
ENVIRONMENTAL CONDITIONS TEMPORARY STORAGE/ TRANSPORT

Operating temperature [°C]	-10 to 40
Relative maximum humidity [%] non condensing	5 - 95
Air pressure [hPa]	700 - 1060

CERTIFICATES

Certificates	CE / FDA / IEC 60601-2-41
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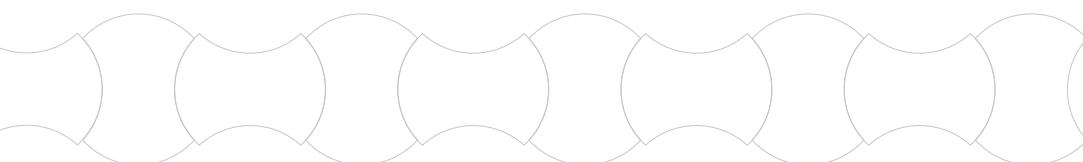
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NOVA.CAM 500X HD WIRELESS

Sensor Type	1/2.8 type Exmor CMOS
Video standards	HD 1080p 50/60Hz
Resolution	1920 x 1080 FullHD
Number of efective pixels	Approx. 2.38 MP
Zoom	10 - x optical 12 - x digital 120 x incl. optical zoom
Lens (ratio of the aperture)	F1.8 to F3.4
Aspect ratio	16 to 9
Signal to noise ratio S/N	> 50dB
Operating temperature	60°C to - 5°C
Power requirement/consumption	12V/3.4W
Power supply	via OR light
Video outputs	HDMI
Focus	Auto or Manual
Iris Control	Auto or Manual
White balance	Auto
Weight of camera	750 g
Camera Control	LCD Screen/press button
Handle	Aluminium & Sterilizable
Transmission Range	Maximum 10 meters

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