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NOVA.light

SERIES 700T

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Model: NOVA.light 700T
Version: 1.2 09-2025

TECHNICAL SPECIFICATION TABLE

SURGICAL LIGHTS

TECHNICAL DATA NOVA.light 700T

GENERAL DATA

Weight of the light head [kg]	18
LED quantities	96
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 aluminium
Camera preparation (optional)	HD/4K
Light emitting surface	Tempered safety glass
Diameter light head [mm]	700 (approx.)
Exact dimensions [LxWxH] [mm]	679 x 708 x 55
Remote control Wall-mounted	Optional

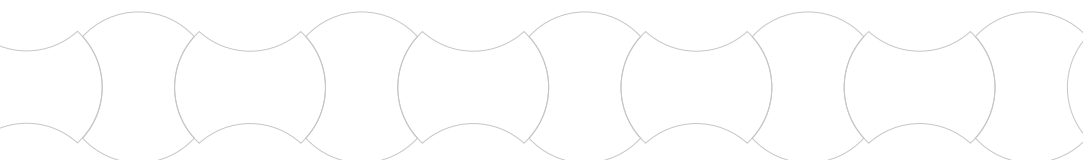
CONNECTION VALUES

Voltage range [V]	100 - 230 VAC 50/60 Hz
Nominal voltage [V]	24
Power intake [W] Power supply per light head	45
Ampere [A]	1,88

TECHNICAL LIGHT PROPERTIES

Light intensity at 1 m distance [lux]	160.000
Dimming range (continuous) [klx]	16 - 160
Dimming range [%]	10 - 100
Light field diameter (d10) in 1 m distance / small light field [mm]	170
Light field diameter (d50) in 1 m distance / small light field [mm]	94
Light field adjustment [mm]	170 - 300
d50 / d10 Ratio	0,55
Field adjustment	5 steps
Type of field adjustment	Electronical
Illuminance with standard tube, related to EC [%]	100

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



Illumination intensity with one mask, (with or without tube) based on EC [%]	72
Illumination intensity with two masks, (with or without tube) based on EC [%]	50
Ee/Ec Ratio [mW/m ² lx]	3,3
Total irradiance Ee [W/m ²]	550
Color rendering index Ra	≥97
Rendering index R9 (Red) / R13 (Skin)	≥97
Color temperature adjustable in 4 steps of 400 [K]	3.800 - 5.000
Luminous efficiency [lx/W]	3.600
Increased temperature in the head area [°C]	<1
Depth of light field L1 + L2 [mm] 20%	1.200
Depth of light field L1 + L2 [mm] 60%	600
Endo mode I Endoscopic lighting in 9 steps [%]	5 - 10
Ambient lighting [lux]	aprox. 500
Maximum blue light hazard weighted radiance (1m) [W / m ²]	133

ENVIRONMENTAL CONDITIONS DURING USE

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

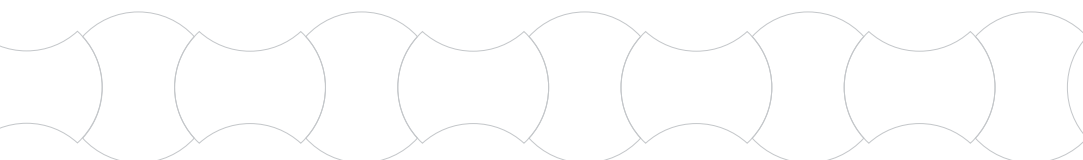
ENVIRONMENTAL CONDITIONS TEMPORARY STORAGE/ TRANSPORT

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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