



# NOVA.light

SERIES 450

# TECHNICAL SPECIFICATION TABLE

## MINOR SURGERY

### TECHNICAL DATA NOVA.light 450

#### GENERAL DATA

|                                                               |                                   |
|---------------------------------------------------------------|-----------------------------------|
| Weight of the light head [kg]                                 | 4,6                               |
| LED quantities                                                | 40                                |
| 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 42                             |
| Material of the light head                                    | Aluminum / Medical Grade Silicone |
| Light emitting surface                                        | Tempered safety glass             |
| Diameter light head [mm]                                      | 380                               |
| Mobile version                                                | Yes                               |
| Mobile version with battery                                   | Yes                               |
| Charging time of battery from 0 % to 100 % [h]                | 3,5                               |
| Battery backup mobile version [h]<br>at 80% of max. intensity | > 4                               |

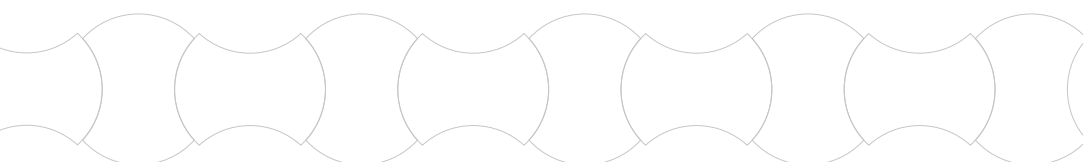
#### CONNECTION VALUES

|                                              |                        |
|----------------------------------------------|------------------------|
| Voltage range [V]                            | 100 - 230 VAC 50/60 Hz |
| Nominal voltage [V]                          | 24                     |
| Power intake [W] Power supply per light head | 36                     |
| Ampere [A]                                   | 1,5                    |

#### TECHNICAL LIGHT PROPERTIES

|                                                                        |              |
|------------------------------------------------------------------------|--------------|
| Light intensity at 1 m distance [lux]                                  | 140.000      |
| Dimming range (continuous) [klx]                                       | 70 - 140     |
| Dimming range [%]                                                      | 50 - 100     |
| Light field diameter (d10)<br>in 1 m distance / small light field [mm] | 140          |
| Light field diameter (d50)<br>in 1 m distance / small light field [mm] | 85           |
| Light field adjustment [mm]                                            | 140 - 250    |
| d50 / d10 Ratio                                                        | 0,61         |
| Field adjustment                                                       | 2 positions  |
| Type of field adjustment                                               | Electronical |

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



|                                             |       |
|---------------------------------------------|-------|
| Ee/Ec Ratio [mW/m2 lx]                      | 3,5   |
| Total irradiance Ee [W/m2]                  | 560   |
| Color rendering index Ra                    | ≥97   |
| Rendering index R9 (Red)<br>/ R13 (Skin)    | ≥97   |
| Color temperature [K]                       | 4.900 |
| Luminous efficiency [lx/W]                  | 3.900 |
| 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   |

#### ENVIRONMENTAL CONDITIONS DURING USE

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

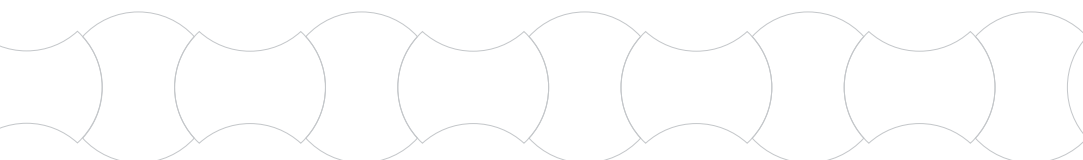
#### ENVIRONMENTAL CONDITIONS TEMPORARY STORAGE/ TRANSPORT

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

#### CERTIFICATES

|              |          |
|--------------|----------|
| Certificates | CE / FDA |
|--------------|----------|

Tolerance ± 10%; technical specifications are subject to change



# NEXOR

HEALING ENGINEERING

WWW.NEXORMEDICAL.COM  
NEXOR MEDICAL GmbH | GERMANY  
Take-Off Gewerbepark 9 78579 Neuhausen ob Eck  
Email: [info@nexormedical.com](mailto:info@nexormedical.com)