

# Q-FLOW

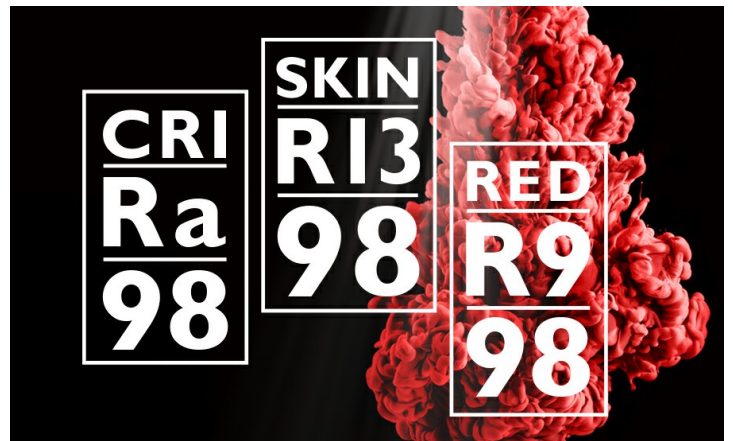
## New era in surgical lights

Merivaara Q-Flow™ surgical light improves the working environment in operating rooms as well as offers a new way to reduce the risk of infections.

Designed and manufactured in Finland, Q-Flow™ is the light of choice for any surgical team.



**OPTIMISED FOR THE OPERATING ROOM**



**SUPERB COLOUR RENDERING**

## AIR FLOW

Q-Flow™ is the intelligent solution for any operating theatre.

The design is optimised for the operating room air flow, because it decreases the air flow circulation in the operating area, thus reducing the potential for contamination. The standard turbulence intensity should be below 37.5 % but the Q-Flow boasts 15.9 % according to the DIN 1946-4:2008 standard.



The light gives superb colour rendering (Ra 98), particularly in red and skin shades, which make the product perfect for a variety of surgeries such as internal or plastic surgery. R9 and R13 values are the best in their classes (R9 98, R13 98).

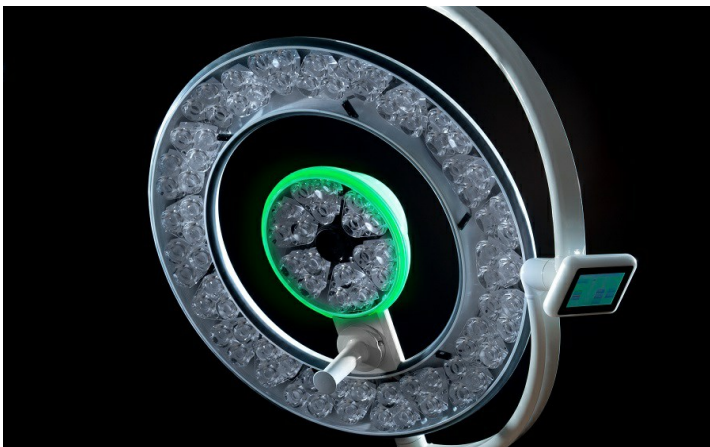


## INTUITIVE STERILE SURGEON CONTROL (INTUERI™)

Intuitive Sterile Surgeon Control (Intueri™) makes surgical operations safer and the OR environment more ergonomic for surgeons. The user interface design is simplicity itself – anyone can use it.

## DYNAMIC OBSTACLE COMPENSATION (DOC™)

Dynamic Obstacle Compensation (DOC™) of Q-Flow™ automatically adapts to the shadows in the light field.



## GREEN AMBIHITE

Q-Flow™ has excellent illumination properties, providing a deep column of light – not forgetting green ambilite, delivering consistent light for seeing images and reading monitors.



## FULL HD CAMERA

Q-Flow™ system with Full HD Camera provides excellent video stream quality. Integrated camera is controlled via same intuitive user interface as the light itself. Wireless transmission enables live video feed to external monitors e.g. in training or consulting.



reddot award 2017  
winner

FENNIAPRIZE 17

GRAND PRIX

## **SUPERIOR LIGHTING WHERE YOU NEED IT**

Q-Flow™ Mobile is an intelligent and easily maneuverable solution for any operating room. Integrated battery and functional design provide outstanding flexibility.

**REDDOT 2017 WINNER &  
FENNIA PRIZE 2017 GRAND PRIX WINNER**

## Q-Flow™ surgical light features in a nutshell:

- Optimised for an OR's air flow (Q-OptiFlow™)
- Dynamic Obstacle Compensation (DOC™)
- Intuitive Sterile Surgeon Control (Intueri™)
- Excellent colour rendering
- Green ambilight
- Intuitive User Interface
- Deep column of light
- Wireless full HD Camera

Surgical light Q-Flow™ can be controlled through OpenOR integrated operating room management system and/or through multifunctional remote control Merimote™.

| Title  | Q-Flow 4                       | Q-Flow 4i                      | Q-Flow 6                       | Q-Flow 6i                      |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Primary voltage                                      | 100 - 240 V                    | 100 - 240 V                    | 100 - 240 V                    | 100 - 240 V                    |
| Secondary voltage                                    | 24 V                           | 24 V                           | 24 V                           | 24 V                           |
| Illumination intensity E <sub>c</sub> at 1m distance | 140000 lx                      | 140000 lx                      | 160000 lx                      | 160000 lx                      |
| Depth of illumination, @ 20%                         | 1500 mm                        | 1500 mm                        | 1800 mm                        | 1800 mm                        |
| Depth of illumination, @ 60%                         | 690 mm                         | 690 mm                         | 1200 mm                        | 1200 mm                        |
| Colour temperature                                   | 3700/4400/5100 K               | 3700/4400/5100 K               | 3700/4400/5100 K               | 3700/4400/5100 K               |
| Light field  | 200 - 320 mm                   | 200 - 320 mm                   | 200 - 370 mm                   | 200 - 370 mm                   |
| Light field diameter, value d10                      | 270 mm                         | 270 mm                         | 330 mm                         | 330 mm                         |
| Light field diameter, value d50                      | 150 mm                         | 150 mm                         | 190 mm                         | 190 mm                         |
| Working distance                                     | 650 - 1700 mm                  | 650 - 1700 mm                  | 700 - 1800 mm                  | 700 - 1800 mm                  |
| Colour rendering index (Ra)                          | 98                             | 98                             | 98                             | 98                             |
| Red colour rendering index (R9)                      | 98                             | 98                             | 98                             | 98                             |
| Number of LEDs                                       | 69                             | 69                             | 90                             | 90                             |
| Average life time of LED                             | >50 000 h                      | >50 000 h                      | >50 000 h                      | >50 000 h                      |
| Size of light head                                   | 560 mm                         | 560 mm                         | 700 mm                         | 700 mm                         |
| Weight of luminaire                                  | 13 kg                          | 13 kg                          | 16 kg                          | 16 kg                          |
| Skin colour rendering index (R13)                    | 98                             | 98                             | 98                             | 98                             |
| Integrated dimming (%)                               | 10 - 100 %                     | 10 - 100 %                     | 10 - 100 %                     | 10 - 100 %                     |
| Turbulence intensity, DIN 1946 (%)                   | 35 %                           | 35 %                           | 15.9 %                         | 15.9 %                         |
| Power consumption (W)                                | 60                             | 60                             | 100                            | 100                            |
| Product Code   | 520210, 520220, 520222, 520230 | 520210, 520220, 520222, 520230 | 520210, 520220, 520222, 520230 | 520210, 520220, 520222, 520230 |