

# Q-FLOW

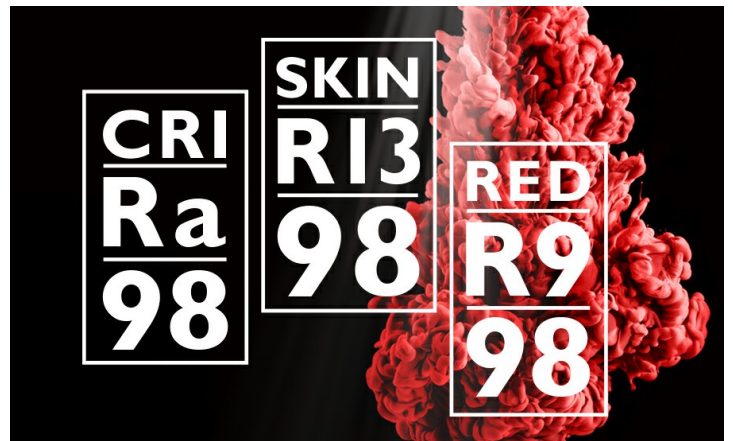
## New era in surgical lights

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

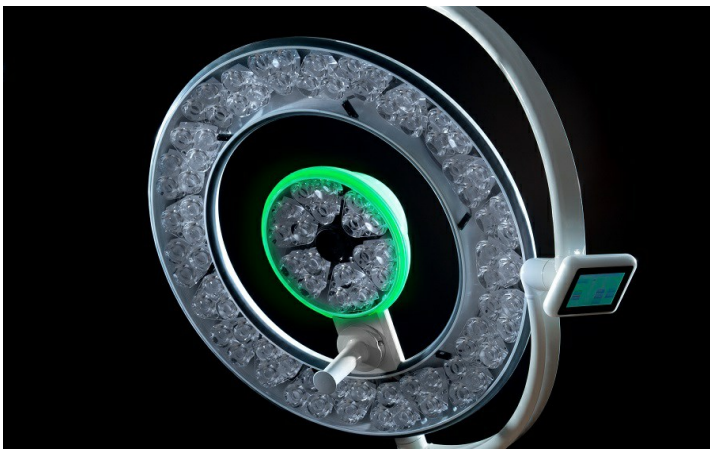
Q-Flow™ is the intelligent solution for any operating theatre.

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.



## 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.



## GREEN AMBILITE

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.



## DYNAMIC OBSTACLE COMPENSATION (DOC™)

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



## 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