

WAARDENBURG
MEDICAL

New camera solutions for Q-FLOW™ lights

Merivaara's new wireless 4K camera for Q-Flow lights brings unprecedented resolution and clarity to operating room video feeds. Upgrading from Full HD to 4K quality allows for even better visualisation and resolution, thus improving patient safety and working conditions for surgeons. The camera was designed specifically for operating rooms where a high-quality video feed is needed, and it integrates seamlessly into the Q-Flow surgical light for outstanding user-friendliness and ease of use.

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Technical improvements:



• **Higher resolution (Full HD > 4K):** Upgrading from Full HD to 4K quality quadruples the resolution of the image. This means that surgeons can see even the tiniest of details more clearly, which improves the precision and patient safety of procedures.

• **Longer optical zoom (12× > 20×):** The new camera offers a 20× optical zoom whereas the previous model offered a 12× zoom. This allows for zooming in closer and viewing areas in greater detail without compromising image quality, which is particularly useful for complex surgical procedures.

• **Better wireless signal reception capability (no line of sight required):** The camera does not require a line of sight, which allows for more versatile use in the operating room. This means that the signal will remain strong and uninterrupted even when there are obstacles in the way.

• **More powerful rotation motor:** A new motor allows for smoother and more precise camera movements. This improves the usability of the camera and allows for a more accurate tracking of objects during surgery, which is critical for procedures that require precision.

• **More reliable electrical contact with the light:** An improved electrical contact guarantees the reliable operation of the camera and reduces malfunctions. This ensures that the camera works flawlessly and provides a high-quality video feed uninterrupted, which is essential for the efficiency and safety of the operating room.

Wireless solution

- Wireless communication with strong encryption (AES-256).
- Updated wireless signal transmission technology.
- The camera does not require a line of sight, which allows for more versatile use in the operating room. This means that the signal will remain strong and uninterrupted even when there are obstacles in the way.
- Flexible retrofitting of the camera in the light head is also possible (Intelligent and Vision models).
- HDMI output.

Wired

- Utilises HDC wiring technology developed specifically for this purpose.
- Only available for the Q-Flow 6i light head (525252 or 525250).
- Location of the camera in the arm configuration must be specified when ordering. Please contact our sales department for further information.
- 6G-SDI output.

Technical specifications:

Wireless image transmission

Wireless	DFS frequencies: 5.270 ~ 5.670 GHz Non-DFS frequencies: 5.190 ~ 5.230 GHz and 5.755 ~ 5.795 GHz
Encryption	AES-256, RSA-1024 key exchange

Camera unit

Image sensor	1/2.5" Exmor R CMOS sensor
Image sensor (number of effective pixels)	Approx. 8.51 megapixels (MP)
Signal system	QFHD 2160p / 29.97
Resolution	3,840 × 2,160 pixels

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