

SONY



Imaging Solutions for Surgical Endoscopy

Clarity. Confidence. Safety.

SONY



Included in this brochure

Surgical clarity >

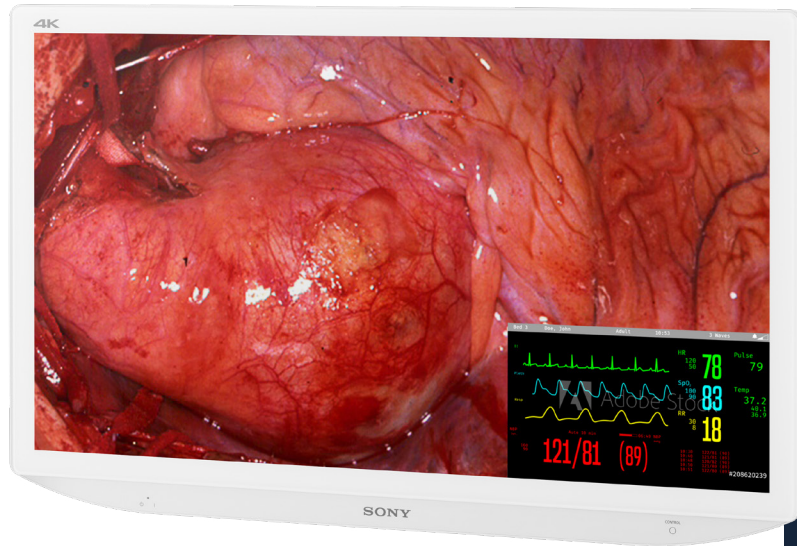
New 4K/HDR imaging workflow >

4K 2D complete workflow >

Unique upscaling technology >

Supported workflows >

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Surgical clarity

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Surgical clarity

At Sony, we are innovating with HDR (High Dynamic Range) technology in our latest introduction of medical displays and cameras. We have expanded our line up of 4K advanced visualisation for surgical imaging in the Operating room with a new 4K 32" inch monitor supporting HDR technology. HDR delivers dramatic contrast with pure realistic peaks of brightness, more shadow detail, and deeper blacks resulting in unparalleled image quality. Surgeons can more easily visualize tissues or blood vessels with more confidence leading to better patient outcomes.



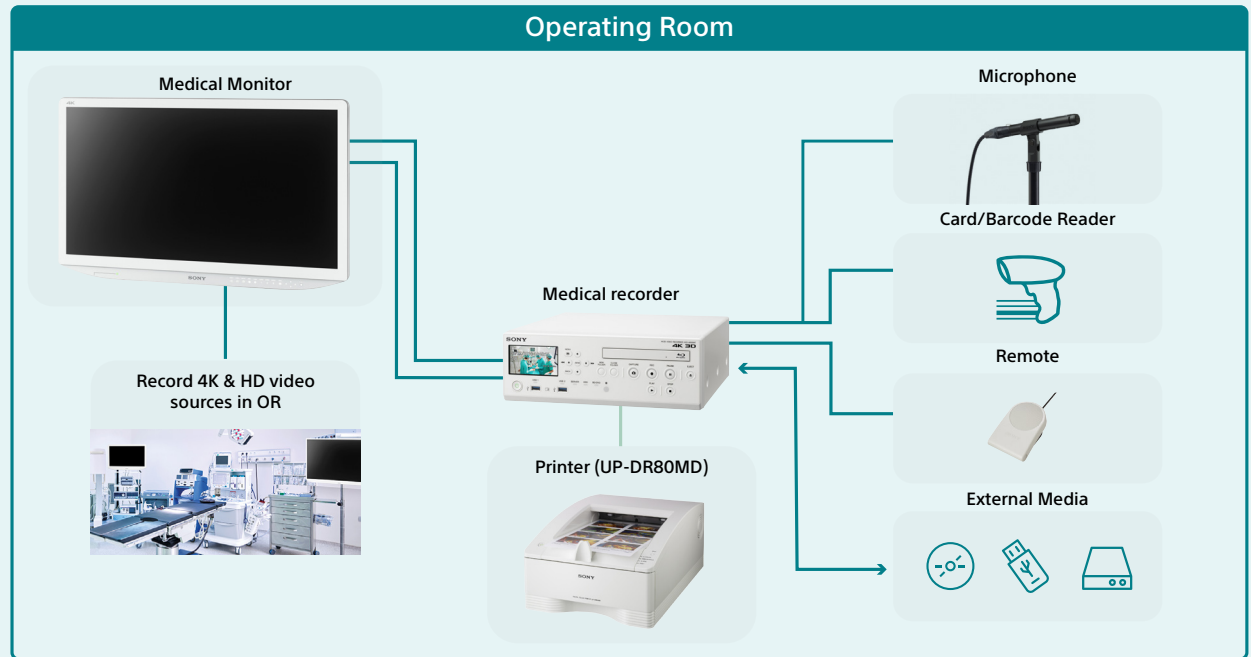


4K 2D complete workflow

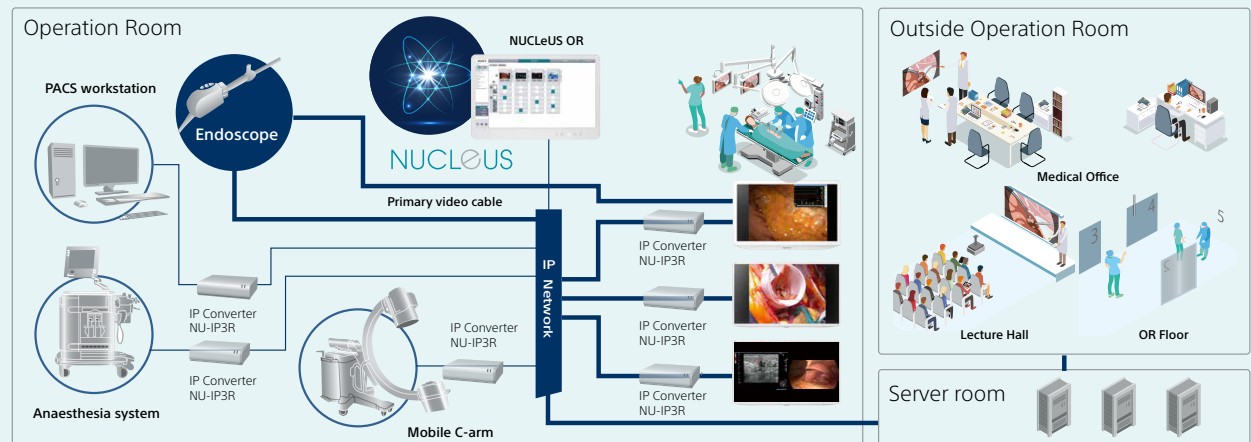
As a market-leader in 4K innovation, we have championed 4K definition across a vast number of product applications. 4K technology is becoming widely accepted as the new resolution – for the ultimate in clarity. And we have the expertise to revolutionize the way you work.

From the image sensors inside the latest 4K endoscopy cameras and the images they capture shown on our latest 4K surgical monitors, to a 4K recorder, whose content can then be distributed over the network to the smart IP imaging platform NUCLeUS supporting clinical teams at all stages of planning, performing, recording, editing, distributing and archiving – we've got it covered.

4K workflow with standalone recording



Smart 4K video over-IP workflow





Unique upscaling

Thanks to Sony's unique upscaling technology, HD signals are automatically upscaled to 4K resolution. Unique Sony image interpolation and upscaling gives crisp, natural 4K view of lower resolution (HD/SD) images without blurring or 'jaggies'.

The diagram compares Full HD and 4K resolution. On the left, a Full HD image is shown with dimensions of 1920 pixels wide and 1080 pixels high. A magnified circular inset shows a blurry eye. Below it is a 'Full HD 1080' logo and the text 'Approximately 2 million pixels'. On the right, a 4K image is shown with dimensions of 3840 pixels wide and 2160 pixels high. A magnified circular inset shows a sharp eye. Below it is a '4K' logo and the text 'More than 8 million pixels'.

The diagram illustrates the upscaling process. On the left is a 10x10 grid of squares, with a diagonal line of black squares. A green arrow labeled 'Upscale' points to the right, where a 20x20 grid of squares is shown. The diagonal line of black squares is now much smoother and more detailed, demonstrating how the built-in upscaling filter converts the HD input signal to 4K resolution images.

Built-in upscaling filter upconverts HD input signal to 4K resolution images



Customer Stories



Dr Akira Dezawa shares his experience of using a Sony 4K monitor during a minimally invasive spinal surgery.



Otolaryngology and phonetics expert Daigo Komazawa shares his experience of using a Sony 4K monitor for treating patients with voice problems.



Hiroyuki Sugaya, M.D. and Norimasa Takahashi, M.D. share their thoughts on using the Sony 4K monitor for arthroscopic surgery.



For more information about Imaging Solutions for Surgical Endoscopy,
get in touch with our Healthcare Solutions Team.

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