



EIZO Adds Four Models to Its Line of 4K UHD Monitors for Endoscopy, Microsurgery, and Other High-Precision Procedures

Hakusan, Japan, July 14, 2022 – EIZO (TSE: 6737) today announced four new monitors ranging from 32 to 55 inches with 4K UHD resolution (3840 x 2160 pixels) for use in endoscopy, microsurgery, and other high-precision procedures in the operating room (OR).

Advancements in surgical techniques and medical technology have allowed for the broad application of minimally invasive procedures, such as endoscopic surgery, robotic surgery, and microsurgery. With this shift, hospitals have a need for visual systems that facilitate an efficiently running OR and provide high-quality imaging for medical staff. EIZO added four new models to its lineup of 4K UHD monitors which are designed to meet the diverse needs of the modern OR, providing a consistent and highly detailed visual communication framework for the surgeon and surgical assistants, as well as surgical technologists, anesthetists, circulating nurses, and other medical staff.



CuratOR EX3242-3D/EX3242/EX4942/EX5542

- CuratOR EX3242-3D: 4K UHD monitor with 32-inch screen diagonal and 3D display
- CuratOR EX3242: 4K UHD monitor with 32-inch screen diagonal
- CuratOR EX4942: 4K UHD monitor with 49-inch screen diagonal
- CuratOR EX5542: 4K UHD monitor with 55-inch screen diagonal

Each monitor has a high resolution of 3840 x 2160, which is four times that of Full HD, for faithful reproduction of images from endoscopes and surgical microscopes. This allows medical staff to view images on a large screen while maintaining a high level of detail compared to smaller monitor sizes traditionally used for these operations. In addition, the EX3242-3D supports stereoscopic image display in 4K resolution that achieves both detail and depth for high precision operations.

During procedures, the operating surgeon needs to be able to differentiate between varying color tones. Each monitor supports the BT.2020 4K video color standard to ensure that subtle differences between shades of reds and yellows captured by BT.2020-supported cameras are distinguishable on the screen.

Two different types of signal sources can be viewed simultaneously on one screen, either side by side using PbyP (Picture-by-Picture) or one displayed within an inset window over the other with the PinP (Picture-in-Picture) function. This is useful in cases where vitals or ultrasound endoscopes need to be monitored simultaneously in addition to surgical images. Furthermore, regardless of the orientation of the endoscopic camera, medical staff can rotate the displayed image by 180 degrees or mirror it to align the image with the line of sight of surrounding assistants and surgeons.



The monitors are equipped with additional output terminals (12G-SDI, DisplayPort, and DVI), so input video can be passed through and output directly to the next monitor. The same image is displayed on multiple monitors, making information sharing among medical staff smooth in the operating room, while alleviating excess cabling.

The Auto Input Detection function automatically switches to another connected input port if the selected video signal is no longer detected. This provides a fail-safe in the case that the video signal's input is disrupted due to a system error or other external interference.

Glare on the screen of an LCD monitor is caused when external light reflects off the protective glass and layer of air underneath at different refractive indices. CuratOR EX3242-3D and EX3242 offer optical bonding which removes the layer of air to soften reflections for a clear, highly visible image without affecting contrast.

The CuratOR EX3242-3D and EX3242 are designed to fit into portable carts or attached to ceiling mounts and EX4942 and EX5542 are ideal for mounting to the OR wall or to a ceiling suspension. Conventional large screen monitors often come with challenges during installation due to their heavy weight and limited range of mounting capabilities. The EX4942 and EX5542 boast a lighter weight (both under 30 kg) compared to conventional monitors of similar sizes, alleviating installation and maintenance concerns. All models comply with the VESA standard for flexible mounting to common fixtures.

Additional Features

- HDR (High Dynamic Range) compatibility with HLG and PQ curve
- BNC (12G-SDI) and DisplayPort or HDMI inputs display 4K UHD signals at 60 frames per second
- IP45 (front) and IP32 (whole monitor) for protection against foreign objects and splashes

About EIZO

EIZO (TSE:6737), which means image in Japanese, is a visual technology company that develops and manufactures high-end visual solutions to enrich people in their professional and personal lives. EIZO offers total imaging solutions with a range of monitors, software, video capture, processing, and distribution solutions, cameras, and advanced integrated technologies to meet the specialized needs of customers in business, creative fields, healthcare, air traffic control, maritime, security & surveillance, and more. Headquartered in Hakusan, Japan, EIZO has R&D and manufacturing facilities in Japan, China, Germany, and the United States, and representation in more than 100 countries.

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