Display high-definition images on this 31.1-inch 4K UHD surgical monitor.

Display Surgical Images in 4K UHD High Resolution
The EX3140 has a resolution of 3840 x 2160 pixels, which is four times the size of a full HD monitor. 4K UHD endoscope and microscope images can be reproduced in high definition. Easily see fine details that are otherwise difficult to distinguish on full HD monitors.

Sharp Color Reproduction with Wide Color Gamut
Not only does the EX3140 faithfully display the sRGB color gamut, but it can also produce images emulating the 4K video color standard BT.2020. It accurately displays BT.2020-compatible camera images, increasing the range of yellowish-green to red.
Enhanced Sharpness
The EX3140 is installed with EIZO’s proprietary image sharpening technology ‘Smart Resolution with Sparse Coding (S.R.C.C.)’. Full HD images shot by conventional endoscopy and surgical cameras can be displayed in high definition without any lag, making full use of the monitor’s 4K UHD resolution.

HDR Compatibility
HDR (High Dynamic Range) is a technology that can display colors naturally as seen by the human eye, that cannot be produced by conventional video. The EX3140 uses “PQ (Perceptual Quantization) method” and “HLG (Hybrid Log Gamma) method” gamma settings for HDR use. Images from HDR compatible endoscope cameras can be displayed realistically without crushing blacks in dark areas.

Fully Flat Design
Operating rooms contain various medical devices that are arranged by the type of surgery being undertaken. In consideration of safety, EIZO’s surgical monitors adopt rounded corners. Furthermore, the front is covered with a fully flat protective glass and the monitor has a protection rating against foreign material and splashes of IP45 on the front and IP32 in entirety. Also, with the attached cable cover, cables can be stored neatly out of sight, increasing safety and hygiene in the operating room.

Protective Glass
The monitor is covered with protective glass which helps guard the LCD screen from shock and dirt. The glass has a hardness of more than 9H, making it difficult to scratch, even if it accidentally bumps into walls when being moved.

4K UHD Connection with One Cable
The 4K UHD video connection interface is equipped with one DisplayPort 1.2 and Quad Link 3G-SDI (BNC). Using the DisplayPort 1.2 terminal, 4K UHD image can be displayed at 60 frames per second with a single cable. Furthermore, the locking mechanism of a DisplayPort cable means that it cannot be accidentally unplugged, allowing for a consistent and stable connection. With the 3G-SDI (BNC) terminal, stable transmission is possible even over long distances of more than 30 m.

Preset Functions for Easy Switching
Various setting such as the input terminal selection, brightness, grayscale tones, color gamut, etc. can be stored in the monitor as preset functions. These settings can be named according to the operator’s preference by easy operation of the OSD (On Screen Display) button.

Display Functions
- Rotate or mirror the screen to your viewing needs
- View multiple signal inputs on one screen
- Adjust display mode of separate images independently
- Independently rotate and mirror separate images