EIZO ®
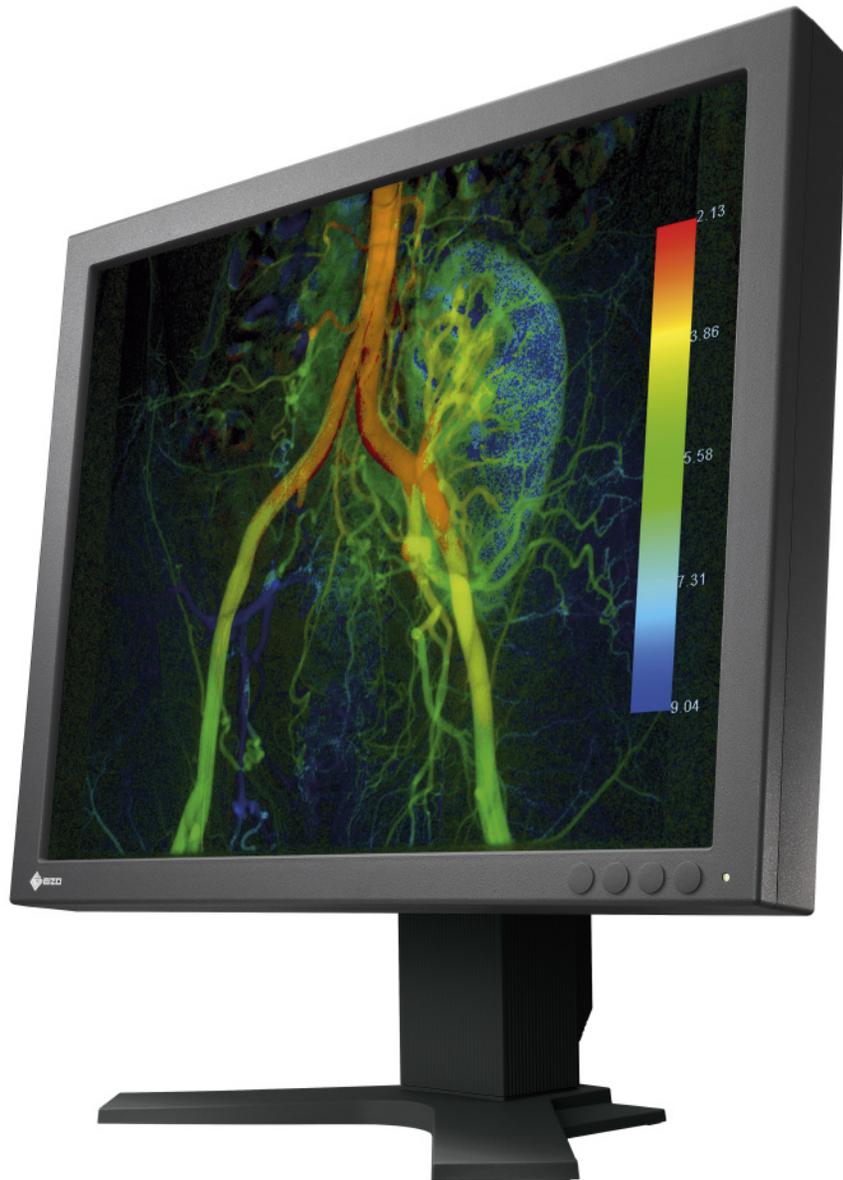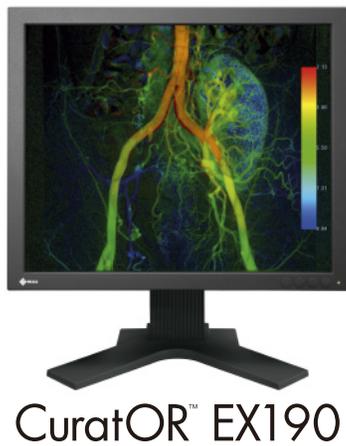
This 19" high-brightness color monitor for diagnosis is perfect for accurate displaying of grayscale tones as well as color images in the medical environment. The monitor accepts multiple input signals from both state of the art and legacy systems. Its high contrast create the perfect fit for most grayscale modalities and imaging systems. Typical application areas are interventional radiology, endoscopy, cardiology and ultrasound.

- Five precalibrated 10 bit look up tables selectable for diverse modalities and viewing environments.
- Freely adjustable user lookup table allows users setting their own preferences.
- Color slider for color adjustment in the field without the loss of grayscale tones.
- Grayscale tones adjusted in the factory to meet DICOM Part 14 standard for optimum viewing of DICOM images.
- Force Mode for tailoring the monitor to even the most specialized timing requirements.
- Wide range of input support.

CuratOR™ EX190

Perfect image reproduction thanks to IPS LCD technology
The LCD technology used eliminates picture geometry distortions and color spots. The monitor delivers flicker-free images, even at low refresh rates (60 Hz). In addition, IPS technology guarantees improved contrast values and significantly higher viewing angle stability. The result is a device that meets the highest ergonomic requirements.

Individualized color location adjustment
The monitor's default blue color location can be adjusted to individual requirements using a color slider. This enables color adjustment in the field such as when replacing a monitor. The adjustment can be performed via the On Screen Display (OSD) without external tools such as a luminance meter or calibration software.

Support of complex timing requirements
Although the monitor automatically detects standard video signals, older medical devices frequently cause problems due to their unusual timing. These special application requirements can be met using the Force Mode function.

Freely adjustable user lookup table (LUT)
The adjustable LUT makes it possible for LUT recalculations to be initiated manually. Within this recalculation the gamma model, luminance settings, or color parameters can be modified. The LUT is calculated via OSD menu without having to access external calibration software. The reset LUT is calculated immediately, saved in the device, and used immediately for image display. This provides the user with the ability to establish the user LUT individually without using luminance meter.

Display of different signal resolutions
The optimum screen resolution is 1280 x 1024 pixels. Video signals with other resolutions, common in medical technology, are automatically adapted to the screen size. Alternatively they can be displayed in original size (1:1).

Consistency thanks to DICOM Part 14 factory calibration
The monitor is precalibrated to meet the DICOM Part 14 standard, thereby ensuring permanently consistent image transmission. The five default look-up tables (LUTs) contain practice-based settings. They take into account the DIN 6868-157 room classes, thereby meeting current specifications for diagnostic monitors.
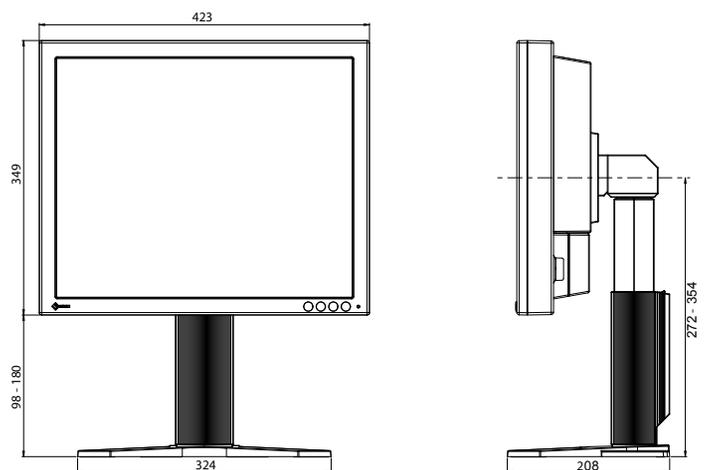
Constant luminance regulation
An integrated brightness sensor, using EIZO fully automated brightness control, ensures fast luminance stabilization during system start and compensates for fluctuations that occur in the course of operation due to differing ambient temperatures.

Specifications

Model Variations	EX190-S: with stand EX190: without stand
Cabinet Color	Black
Panel Type	Color TFT LCD Panel (IPS)
Backlight	LED
Panel Size	48 cm / 19" (481.9 mm diagonal)
Native Resolution	1280 x 1024 (5:4 aspect ratio)
Viewable Image Size (H x V)	376.0 x 301.0 mm
Pixel Pitch	0.294 x 0.294 mm
Display Colors	8-bit colors: 16.77 million colors
Viewing Angles (H, V, typical)	178, 178°
Brightness (typical)	700 cd/m^2
Recommended Brightness for Calibration	400 cd/m^2
Contrast Ratio (typical)	900:1
Response Time (typical)	14 ms (on/off)
LUT	10 bit
Sensor	Backlight sensor
Scanning Frequency (H, V)	Digital: 30 - 80 kHz, 60 - 75 Hz Analog: 30 - 80 kHz, 50 - 85 Hz
Dot Clock	Digital / Analog: 135 MHz
Signal- / Synchronization Level	0.5 - 1.0 Vpp (75 Ω) / 0.15 - 0.3 (10 kΩ)
Video Inputs	DisplayPort x 1 (DVI-signal), DVI-I (digital und analog RGBHV) x 1, BNC (SoG-signal) x 1
Output Terminals (Loop-Through)	BNC (SoG-signal) x 1
USB Function / Standard	1 upstream, 2 downstream / USB 2.0
Power Requirements	AC 100 - 120 V, 200 - 240 V : 50 - 60 Hz
Maximum Power Consumption	Less than 58 W
Power Save Mode	Less than 8 W
Power Management	Digital: DVI DMPM Analog: DMPS
OSD Languages	English, German
Net Weight	EX190-S: 8.1 kg EX190: 5.1 kg
Degree of Protection	IP20
Hole Spacing (VESA Standard)	100 x 100 mm, M4, depth 7 - 9 mm
Certifications and Standards (Please contact EIZO for the latest information)	CE (Medical Device Directive), IEC/EN60601-1 (2nd edition), IEC/EN60601-1 (3rd edition), CAN/CSA C22.2 No. 601.1-M90, CAN/CSA C22.2 No. 60601-1-08, GB4943.1 (non-tropical, altitude < 2000 m), UL60601-1, FCC-A, RCM, RoHS, China RoHS, WEEE, CCC
Supplied Accessories	AC power cord (eu, us, jp, cn), signal cables (DVI-D - DVI-D, DisplayPort), adapter (DVI - VGA), utility disk (PDF instructions for use)
Order Numbers	EX190-S: 6GF6210-2EL01 EX190: 6GF6210-2EL10

Dimensions (mm)