

LMD-3251MT Full HD Medical Grade 3D Monitor

a new dimension of detail

3D imaging is an increasingly important tool in today's operating rooms. It's a practical alternative to conventional 2D imaging, giving surgeons a stereoscopic view of high-resolution video captured with endoscopes, surgical microscopes and robotic surgery systems.

3D offers an accurate, lifelike visual experience, with improved depth perception and spatial orientation, which provides a more realistic visualization of complex procedures.

The LMD-3251MT is a high-performance 32^{**} full HD monitor featuring **LED backlight technology** that's designed for use in medical environments. Connected to a 3D camera system, it displays smooth, flicker-free high-resolution images that are viewed by surgeons and staff with the use of light, comfortable passive polarizing glasses.

The monitor is fully compliant with medical safety standards for hospital operating room use. It's also ideal for other environments where high-quality 3D viewing is desired, from consulting rooms and clinics to conference halls and training suites.

See high-impact, detail-packed 3D images in Full HD 1920 x 1080 resolution

Add an extra dimension of detail and realism when viewing images captured with today's 3D endoscopic and surgical microscopy camera systems. Advanced polarizing filter technology delivers smooth, flicker-free, easy-on-the eye stereoscopic images in full HD that are viewed by surgeons and operating room staff wearing light, comfortable passive glasses.

View with light, easy-to-wear 3D glasses

Stereoscopic full HD images can be viewed with a choice of passive 3D glasses that require no power source and can be worn with minimum fatigue over extended periods of time. The BKM-30G glasses comfortably fit most facial shapes, and feature a specially designed nose pad and temple tips that hold the glasses securely in place. The super-lightweight BKM-31G "clip-on" model attaches to normal glasses and features a convenient flip-up design.



Clip-on BKM-31G glasses are worn with the user's own corrective glasses.

LED backlight technology

The panel's energy-efficient LED backlight offers high image brightness as well as lower power consumption and a longer service life than conventional CCFL designs. The mercury-free backlight also reduces potential environmental impact at end-of-life disposal.

3D/2D switchable

As well as high-resolution 3D images, the LMD-3251MT monitor can also display images from conventional 2D surgical camera systems in full HD resolution.

Clear, consistent images with a wide viewing angle

The 32" Active Matrix TFT panel ensures a clear, reliable 3D experience with a wide viewing angle.

Coated panel protected from scratches and light reflection

The panel's tough multi-layer AR-coated protection minimizes the risk of damage from scratches. The AR coating also minimizes reflections from ambient light, ensuring high contrast even when used in bright lighting conditions.

Natural gradation and accurate color reproduction

An advanced 10-bit digital video signal processor delivers smooth, natural tonal gradations for extremely lifelike, accurate image reproduction.

Display Mode Examples



SBS (normal)*



SBS (V-full scan)*



POP (V-full scan)*

ChromaTRU[™] color matching for accurate, dependable colors

ChromaTRU

The LMD-3251MT ensures that colors seen by the surgeon are an accurate representation of the subject. Precise factory calibration of RGB coordinates for each panel ensures the highest levels of true, consistent color reproduction across multiple monitors. Further calibration maintains white balance at a uniform color temperature throughout all grayscale levels.

Color temperature and gamma curve selection

Display color temperature can be selected with three preset color temperate modes (D93, D65, D56) and five user-defined settings. There's also a choice of CRT 2.2 and DICOM gamma curve settings to meet the needs of different modalities.

Wide range of display modes

The LMD-3251MT supports a variety of 2D display modes, including Side-by-Side (SBS), Picture-out-Picture (POP) and Picture-in-Picture (PIP). It allows display of images from multiple sources on a single monitor. Adding the optional BKM-256DD DVI-D input adaptor supports display of images from two simultaneous DVI input signals.

Mirror image

Mirror imaging allows for an assistant to view a "flipped" mirror image of the surgeon's own display. This convenient feature is ideal for procedures where two surgeons work at opposite points of orientation to the patient. With this feature, surgeons no longer have to stand side-by-side and share a single display as in a conventional operating room.



Normal image*



Mirror image*

* Simulated images

Protected controls

Inadvertent operation of the control panel can be prevented by the display's key inhibit function. Pushing the control button on the control panel turns off LED switch lights and overrides switch functions.

Extensive 2D and 3D input capabilities

The monitor accepts a wide range of input signals as standard, including composite, Y/C, RGB/component, HD15 and DVI-D. Dual expansion slots for up to two optional input boards allow the LMD-3251MT to be used as a multi-format monitor, including support for 3G/HD-SDI.

Black bezel for optimized 3D viewing

The display's unique black bezel design provides an excellent viewing background and gives surgeons a clear, optimized view of 3D images that are being displayed.

Mounting flexibility (VESA)

The LMD-3251MT complies with the VESA 300 standard (100 x 300 mm hole-spacing mounting), for simple integration with most surgical equipment arms and tabletop stands. It can also be used as a desktop monitor with the optional SU-32FW monitor stand.

Fully compliant for safe operation in medical environments

The LMD-3251MT is fully compliant and certified for use in most professional medical environments. The display is UL60601-1 listed and complies with CSA C 22.2 No. 60601 and EN60 601-1 safety regulations.

Optional Accessories

BKM-250TG, 3G/HD/SD-SDI Input Adaptor
BKM-243HS, HD-SDI/SD-SDI Input Adaptor
BKM-256DD, DVI-D Input Adaptor
BKM-220D, SD-SDI 4:2:2 Input Adaptor
BKM-227W, NTSC/PAL Input Adaptor
BKM-229X, Analog Component Adaptor
BKM-30G, Circular-polarizer 3D Glasses
BKM-31G, Clip-on type Circular-polarizer 3D Glasses
SU-32FW, Monitor stand

Specifications

| Picture Performance | | |
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| Panel | | a-Si TFT Active Matrix LCD |
| Picture Size (Diagonal) | | 31 5/8 inches |
| | | 801.3 mm |
| Effective Picture | Size (H x V) | 27 1/2 x 15 1/2 inches |
| | | 698.4 x 392.9 mm |
| Resolution (H x V) | | 1920 x 1080 pixels (Full HD) |
| Aspect | | 16:9 |
| Pixel Efficiency | | 0.9999 |
| Backlight | | LED |
| Viewing Angle (Panel Specification) | | 89°/89°/89° (typical) (up/down/left/right contrast > 10:1) |
| Vertical Viewing Angle (3D Mode) | | 35° at a viewing distance more than 24 1/2" (620 mm), crosstalk less than |
| | | 7% (typical) |
| | | |
| Composite Input | | BNC (x1), 1 Vp-p ±3dB sync negative |
| Y/C Input | | Mini-DIN 4-pin (x1), Y: 1 Vp-p ±3dB sync negative, C: 0.286 Vp-p ±3dB |
| | | (NTSC burst signal level), 0.3 Vp-p ±3dB (PAL burst signal level) |
| RGB, Component Input | | BNC (x3), RGB: 0.7 Vp-p ±3dB (Sync On Green, 0.3 Vp-p sync negative) |
| | | Component: 0.7 Vp-p ±3dB (75% chrominance standard color bar signal) |
| DVI-D Input | | DVI-D (x1), IMDS single link |
| HD15 Input | | D-sub 15-pin (x1), R/G/B: U. / Vp-p sync positive (Sync On Green, 0.3 Vp-p sync |
| | | riegurive), sync: rotat level (potarity tree, H/V separate sync) Plug & Play function: corresponds to DDC28 |
| Extornal Sync Input | | RNC (v1) 0.3 to 1.0 Vp-p +bipolarity terpany or pegative polarity bipany |
| Ontion Port | Jui | Two (2) ports Signal format: $H: 15 \text{ kHz}$ to 45 kHz V: 48 Hz to 60 Hz |
| Parallel Pemote | | Modular connector 8-nin (x1) (Pin-assignable) |
| Serial Permote (I | | $D_{sub} Q_{nin} (PS_{232C}) (x1) P L(45 (x1)) (Ethernet 10 PASE_T/100 PASE_TX)$ |
| | AN) | VID_{1} (K3-2020) (X1), K3-40 (X1) (Linemen, TODASL-1, TODASL-1X) |
| Output | | xtrappe 4-pin (male) (x1), 54/244 bb (baipar impedance 0.05 onins of less) |
| Composite Outp | ut | BNC (x1) Loop-through with 75.0 gutomatic terminal function |
| V/C Output | | Mini-DIN 4-nin (x1) Loon-through with 75 O gutomatic terminal function |
| PGB Componen | t Output | BNC (x3) Loop-through with 75 O automatic terminal function |
| Extornal Syno O | itout | BNC (x1), Loop-through, with 75 Ω automatic terminal function |
| General | | |
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| Central Power Requirem Power Requirem Operating Tempe Operating Transp Storage / Transp Operating / Storage / | ents tion erature dity ort Temperature ort Humidity age / re k H x D) ories Safety EMC | LCD monitor (LMD-3251MT): - DC Input: 24 V 5.0 A 5 V 0.060 A (Supplied from AC adaptor) AC adaptor (Sony, AC-110MD): - AC Input: 100 V - 240 V AC, 50/60 Hz, 1.53 A - 0.58 A - DC Output: 24 V 5.0 A 5 V 0.060 A Approx. 100 W (max.) (with 2 x BKM-229X) 32°F to 95°F (Recommended: 68°F to 86°F) 0°C to 35°C (Recommended: 20°C to 30°C) 30% to 85% (no condensation) - 4°F to +140°F - 20°C to \pm 60°C 0% to 90% 700 hPa to 1060 hPa 30 7/8 x 18 7/8 x 5 inches 783 x 479.2 x 124.3 mm 30 7/8 x 23 x 9 1/8 inches (with SU-32FW optional stand) 783 x 582.8 x 229 mm (with SU-32FW optional stand) 30 1b 7 oz (when 2x BKM-229X installed) 13.8 kg (when 2x BKM-229X installed) 13.8 kg (when no input adaptor installed) 13.3 kg (when no input adaptor installed) AC adaptor (AC-110MD) (1), AC power cord (1), AC plug holder (2), 3D glasses (glasses-type) (1), 3D glasses (clip-on-type) (1), L/R labels (1), Instructions for Use (1), CD-ROM (1), Using the CD-ROM Manual (1), Quick Reference (1), When You First Use the Monitor (1), Sales Companies Guide (1), Warranty book (1) US/CA: UL 60601-1, CAN/CSA-C22.2 No. 60601-1, EU: EN 60601-1 |
| Certification and Standards | ents tion erature dity ort Temperature ort Humidity age / re K H x D) ories Safety EMC | LCD monitor (LMD-3251MT): - DC Input: 24 V 5.0 A 5 V 0.060 A (Supplied from AC adaptor) AC adaptor (Sony, AC-110MD): - AC Input: 100 V - 240 V AC, 50/60 Hz, 1.53 A - 0.58 A - DC Output: 24 V 5.0 A 5 V 0.060 A Approx. 100 W (max.) (with 2 x BKM-229X) 32°F to 95°F (Recommended: 68°F to 86°F) 0°C to 35°C (Recommended: 20°C to 30°C) 30% to 85% (no condensation) -4°F to +140°F -20°C to $+60°C$ 0% to 90% 700 hPa to 1060 hPa 30 7/8 x 18 7/8 x 5 inches 783 x 479.2 x 124.3 mm 30 7/8 x 23 x 9 1/8 inches (with SU-32FW optional stand) 783 x 582.8 x 229 mm (with SU-32FW optional stand) 783 x 582.8 x 229 mm (with SU-32FW optional stand) 30 lb 7 oz (when 2x BKM-229X installed) 13.8 kg (when 2x BKM-229X installed) 13.3 kg (when no input adaptor installed) 13.4 C adaptor (AC-110MD) (1), AC power cord (1), AC plug holder (2), 3D glasses (glasses-type) (1), 3D glasses (clip-on-type) (1), L/R labels (1), Instructions for Us/CA: FCC Part 15 Class A, ICES-003 Class A, EU: EN 60601-1 US/CA: FCC Part 15 Class A, ICES-003 Class A, EU: EN 60601-1-2 AU: EN 55011 Class B, L'YCCI Class A |
| Certification Additional Power Consump Operating Tempe Operating Tempe Operating Transp Storage / Transp Operating / Storage / Transp Mass (with optic Mass (with optic Mass Supplied Access Certification and Standards | ents tion erature dity ort Temperature ort Humidity tige / re x H x D) ories Safety EMC CB Certification | LCD monitor (LMD-3251MT): - DC Input: 24 V 5.0 A 5 V 0.060 A (Supplied from AC adaptor) AC adaptor (Sony, AC-110MD): - AC Input: 100 V - 240 V AC, 50/60 Hz, 1.53 A - 0.58 A - DC Output: 24 V 5.0 A 5 V 0.060 A Approx. 100 W (max.) (with 2 x BKM-229X) 32°F to 95°F (Recommended: 68°F to 86°F) 0°C to 35°C (Recommended: 20°C to 30°C) 30% to 85% (no condensation) - 4°F to +140°F - 20°C to $+60°C$ 0% to 90% 700 hPa to 1060 hPa 30 7/8 x 18 7/8 x 5 inches 783 x 479.2 x 124.3 mm 30 7/8 x 23 x 9 1/8 inches (with SU-32FW optional stand) 783 x 582.8 x 229 mm (with SU-32FW optional stand) 783 x 582.8 x 229 mm (with SU-32FW optional stand) 30 lb 7 oz (when 2x BKM-229X installed) 13.8 kg (when 2x BKM-229X installed) 13.3 kg (when no input adaptor installed) 13.4 kg (when 2x BKM-222.2 No. 60601-1, EN 60601-1 US/CA: UL 60601-1, CAN/CSA-C22.2 No. 60601-1, EN 60601-1 US/CA: FCC Part 15 Class A, ICES-003 Class A, EU: EN 60601-1.2 AU: EN 55011 Class B, J: VCCI Class A |
| Certification Additional Power Consump Operating Tempe Operating Tempe Operating Transp Storage / Transp Operating / Storage / Transp Mass Supplied Access Certification and Standards Medical | ents tion erature dity ort Temperature ort Humidity age / re x H x D) ories Safety EMC CB Certification | LCD monitor (LMD-3251MT): - DC Input: 24 V 5.0 A 5 V 0.060 A (Supplied from AC adaptor) AC adaptor (Sony, AC-110MD): - AC Input: 100 V - 240 V AC, 50/60 Hz, 1.53 A - 0.58 A - DC Output: 24 V 5.0 A 5 V 0.060 A Approx. 100 W (max.) (with 2 x BKM-229X) 32°F to 95°F (Recommended: 68°F to 86°F) 0°C to 35°C (Recommended: 20°C to 30°C) 30% to 85% (no condensation) -4°F to +140°F -20°C to +60°C 0% to 90% 700 hPa to 1060 hPa 30 7/8 x 18 7/8 x 5 inches 783 x 479.2 x 124.3 mm 30 7/8 x 23 x 9 1/8 inches (with SU-32FW optional stand) 783 x 582.8 x 229 mm (with SU-32FW optional stand) 30 Ib 7 oz (when 2x BKM-229X installed) 13.8 kg (when no input adaptor installed) 13.8 kg (when no input adaptor installed) 13.3 kg (when no input adaptor installed) 13.4 kg (when no input adaptor installed) 14.5 kg (0.601-1, CAN/CSA-C22.2 No. 60601-1, LU: EN 60601-1 US/CA: UL 60601-1, CAN/CSA-C22.2 No. 60601-1, EU: EN 60601-1 US/CA: FCC Part 15 Class A, ICES-003 Class A, EU: EN 60601-1-2 AU: EN 55011 Class B, J: VCCI Class A IEC 6060-1, IEC 60065 Class II Medical Device |
| Power Consump Power Requirem Operating Tempo Operating Tempo Operating Jumio Storage / Transp Operating / Stor Transport Pressu Dimensions (W: Mass Supplied Access Certification and Standards Medical Compliances | ents tion erature dity ort Temperature ort Humidity age / re x H x D) ories Safety EMC CB Certification FD&C Act (FDA) MDD (FC) | LCD monitor (LMD-3251MT): - DC Input: 24 V 5.0 A 5 V 0.060 A (Supplied from AC adaptor) AC adaptor (Sony, AC-110MD): - AC Input: 100 V - 240 V AC, 50/60 Hz, 1.53 A - 0.58 A - DC Output: 24 V 5.0 A 5 V 0.060 A Approx. 100 W (max.) (with 2 x BKM-229X) 32°F to 95°F (Recommended: 68°F to 86°F) 0°C to 35°C (Recommended: 20°C to 30°C) 30% to 85% (no condensation) -4°F to +140°F -20°C to +60°C 0% to 90% 700 hPa to 1060 hPa 30 7/8 x 18 7/8 x 5 inches 783 x 479.2 x 124.3 mm 30 7/8 x 23 x 9 1/8 inches (with SU-32FW optional stand) 783 x 582.8 x 229 mm (with SU-32FW optional stand) 30 lb 7 oz (when 2x BKM-229X installed) 13.8 kg (when 2x BKM-229X installed) 29 lb 5 oz (when no input adaptor installed) 13.8 kg (when no input adaptor installed) AC adaptor (AC-110MD) (1), AC power cord (1), AC plug holder (2), 3D glasses (glasses-type) (1), 3D glasses (clip-on-type) (1), U/R labels (1), Instructions for Use (1), CD-R0M (1), Using the CD-R0M Manual (1), Quick Reference (1), When You First Use the Monitor (1). Sales Companies Guide (1). Warranty book (1) US/CA: UL 60601-1, CAN/CSA-C22.2 No. 60601-1, EU: EN 60601-1 US/CA: FCC Part 15 Class A, ICES-003 Class A, EU: EN 60601-1-2 AU: EN 55011 Class B, J: VCCI Class A IEC 60061-1, IEC 60065 Class II Medical Device Class II Medical Device |

Dimensions



Front Panel



Connector Panel



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