

Medical Displays

2022



LG

Business
Solutions



LG Medical Displays

When The Details Matter Most.

As an original equipment manufacturer, LG Electronics USA-Commercial Displays is proud to empower its "Life's Good" mantra to all customers through innovation, vertical expertise, and connected support, and remains dedicated to delivering outstanding solutions specifically for medical professionals. LG Medical Displays are built to meet international medical digital image standards medical professionals expect, including:

- **Diagnostic Displays** with IPS or advanced, patented Nano IPS screens for outstanding picture quality and a 178° wide viewing angle so that multiple medical professionals can view images from different angles with crisp clarity and minimal color shift;
- DICOM Part 14 compliant **Clinical Review Displays** that deliver highly consistent images, even for grayscale tones that may vary even between two displays of the same model;
- **4k Surgical Displays** that support sRGB 115% and multiple signals on one screen for high-quality color reproduction; and
- **Digital X-Ray Detectors** with 16-bit image processing that delivers images in high resolution.

LG Medical Display solutions instill confidence and trust by providing outstanding performance, precise images, and reliability.

Life's Good with LG.



The global medical display market was valued at \$2,052.77 million in 2019, and is projected to reach \$3,194.72 million by 2027, registering a CAGR of 4.90% from 2020 to 2027.⁽¹⁾ Medical professionals such as surgeons, radiologists, and information technology specialists recognize the vital role these specialized medical-grade displays play in diagnosing patients accurately by delivering precise images for better detection.

⁽¹⁾ <https://www.alliedmarketresearch.com/medical-display-market>

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Watch our Medical Displays Introduction Video.

[Click Here](#)

Screen images are simulated for illustrative purposes only.



key features*



DUAL VIDEO INPUT

The ability to display two 4MP screens in one monitor provides PBP (Picture-By-Picture) capability by enabling the connection of two video sources for operation with PACS application.



AUTO LUMINANCE CALIBRATION

Thanks to a built-in backlight sensor that dynamically measures and maintains calibrated DICOM brightness, enhancing reading consistency, confidence over time, thanks to sustained picture quality.



MULTI RESOLUTION MODE

This multi-purpose operation allows you to view images in 4MP or 6MP resolution and use as multiple work list screens. Switch back to 8MP resolution for reading images.

See Images Clearly On Color Diagnostic Displays.

LG's color diagnostic displays can generate images with outstanding clarity and resolution. They are Class II, FDA 510(k) cleared, and provide a list of features that let medical professionals focus on images rather than monitor settings. A specialized 31" 12MP diagnostic monitor is FDA cleared for breast tomosynthesis and mammography (31HN713D).



31HN713D-B

31" 12MP (4200x2800) IPS Display
Single 12 MP or Two 6 MP Screens in One Monitor
1080 cd/m² (Typ.)
Multi-Resolution Mode (12/6MP)
Pathology Mode, Focus View Mode
Down & Wall Lighting



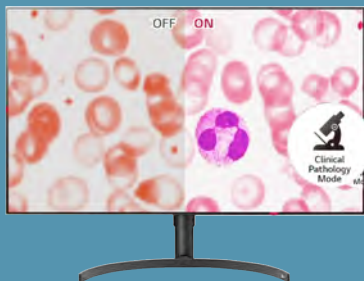
21HQ513D

21.3-inch 3MP IPS Display
1100 cd/m² (Typ.)
Easy Calibration Sensor
Pathology Mode, Focus View Mode
Down & Wall Lighting
Ergonomic Design



32HL512D-B

31.5" 8MP (3840x2160) Nano IPS Display
Single 8 MP or Two 4MP Screens in One Monitor
DICOM Calibrated Primary Diagnostic Guidelines
Brightness Stabilization/Picture by Picture
Operation Display Port and HDMI Video Inputs
Support Nvidia, AMD & Intel Graphics



CLINICAL PATHOLOGY MODE

For high-quality color reproduction, you can select the clinical pathology mode, which can vividly deliver image clarity and accuracy as if you were looking at a microscope with virtually no color distortion.



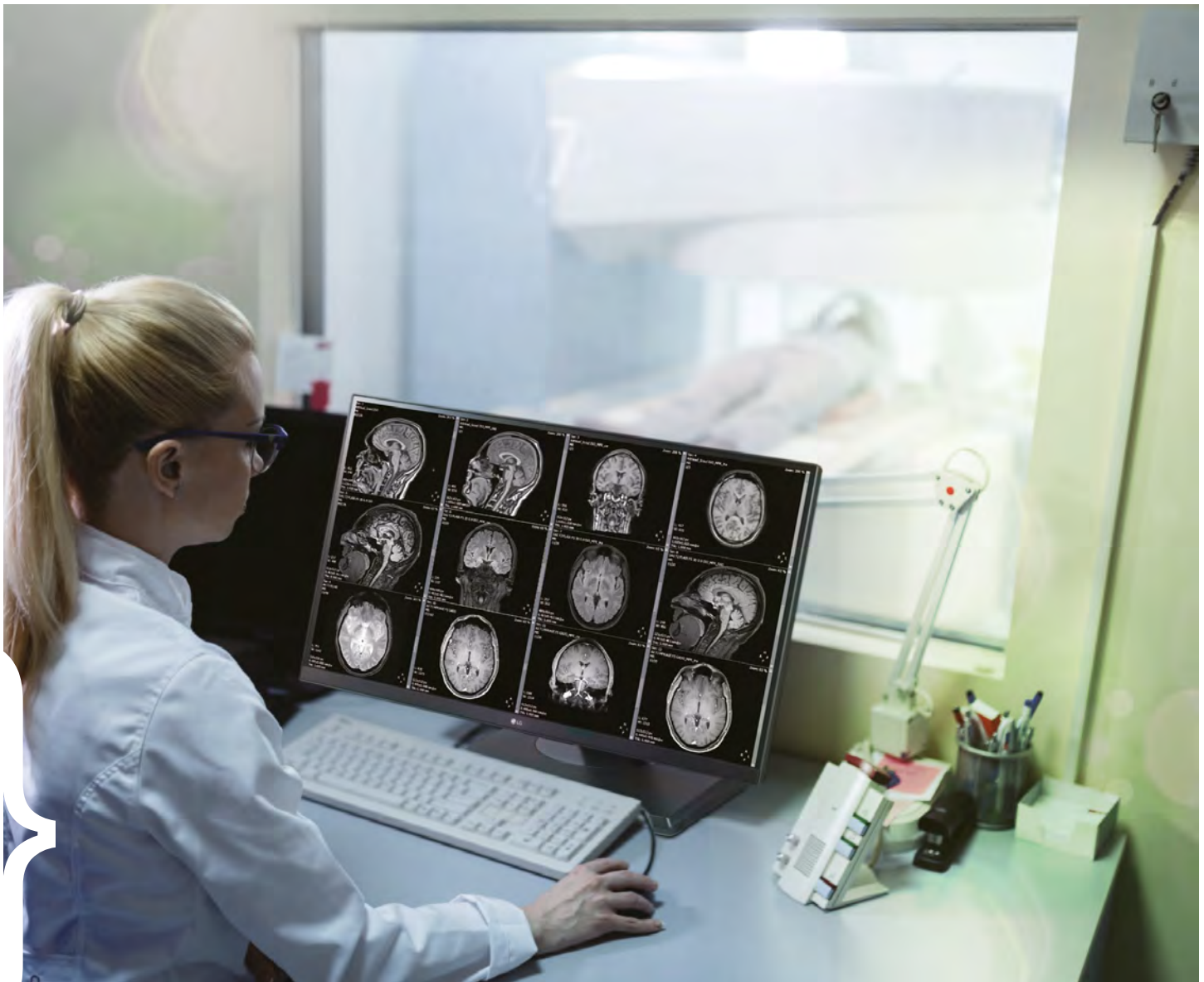
ERGONOMIC DESIGN

LG's color diagnostic displays are designed for comfort and immersion and feature an ergonomic stand, two-way pivot adjustment, and narrow bezel. Rotate two displays in portrait orientation and use them side-by-side for the ultimate reading experience.



31.5" 8MP IPS DISPLAY

The 31.5-inch 8MP Nano IPS display helps facilitate the diagnosis of medical images. The 178° wide viewing angles enable clinicians to read multiple screens accurately without significant loss in contrast ratio.



key features*

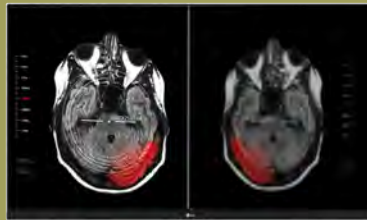


8MP IPS

VA / TN

8MP IPS DISPLAY

A 27-inch IPS 8MP display helps improve work efficiency by enabling detailed observation and displaying multiple imaging applications. LG's IPS technology offers outstanding picture quality along with a 178° wide viewing angle so that various medical professionals can view images from different angles with crisp clarity and minimal color shift.



sRGB over 99%

Conventional

OUTSTANDING COLOR REPRESENTATION

The 8MP IPS display enables detailed observation of hard-to-see regions while displaying multiple imaging applications. The monitor provides consistent brightness and sRGB over 99% to ensure high-quality color reproduction, with the ability to add a deep red color spectrum.



DICOM Part 14

Conventional

DICOM PART 14 COMPATIBLE

In the medical field, displays must display images accurately and consistently, especially for the grayscale tones that may vary even between two displays of the same model. To ensure consistent shading possible for medical images, LG measures and sets every grayscale tone to produce a monitor compliant with DICOM Part 14.

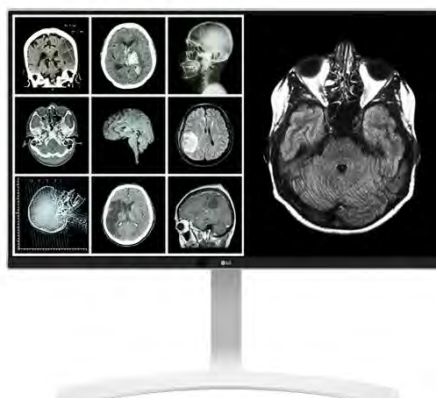
Clinical Review Displays Can Improve Work Efficiency.

LG clinical review displays are designed to help improve workflow and efficiencies by enabling detailed observation and the ability to display multiple images. They are designed to deliver outstanding picture quality over a wide viewing angle so that images can be viewed by a team of medical professionals from different angles with crisp clarity and minimal color shift.



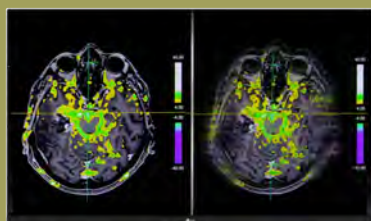
27HJ713C-B

27" IPS 8MP
350 nits (Typ.) & sRGB 99%
DICOM Part 14
Brightness Stabilization
Flicker Safe
Two-way Pivot



27HJ712C-W

27" 8MP (3840x2160) IPS Display
350 nits with sRGB over 99%
DICOM Part 14
Dynamic Sync Mode & Quick Response Time
Brightness Stabilization
Flicker Safe | Reader Mode

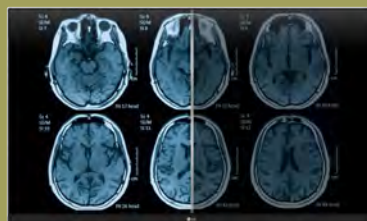


Low Input Lag and
Quick Response Time

Conventional

QUICK RESPONSE TIME

LG clinical review displays support low input lag and quick response time, allowing the monitor to receive signals quickly, and display clear images with virtually no distortion for precise decoding information for an efficient review.



Brightness Stabilization

Conventional

BRIGHTNESS STABILIZATION

A sensor measures the monitor's backlight brightness stability and automatically compensates for brightness fluctuations caused by aging for consistently stable images during usage.



Flicker

Conventional

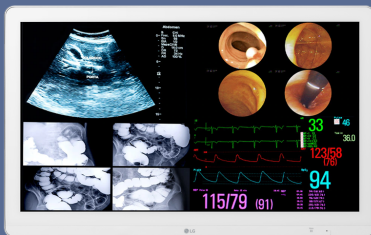
FLICKER SAFE & READER MODE

Flicker Safe technology virtually eliminates flickering to help reduce eye fatigue, especially during extended work sessions,

Reader Mode provides optimal conditions for clinical use. LG's Reader Mode technology reduces blue light to help protect from eye fatigue.



key features*



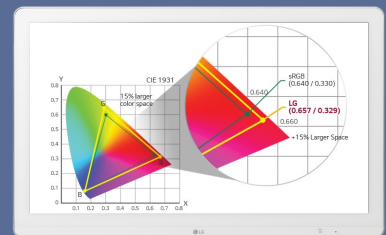
4K SURGICAL DISPLAY

LG's 4K surgical high-resolution monitor delivers outstanding images, user convenience, and reliability for trusted performance during surgical procedures.



IPS WIDE VIEWING ANGLES

With a 31.5-inch, 4K IPS LCD display, this LG surgical monitor provides image accuracy and visual confidence even when the surgical team is viewing off-axis. The 178° wide viewing angle reduces the risk of misperception and helps produce effective results.

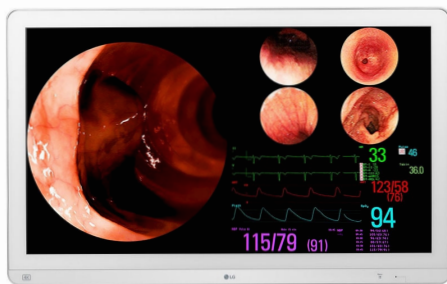


sRGB 115% (AREA), OVER 99% (COVERAGE)

Supporting sRGB 115% (Area) and Over 99% (Coverage), plus the DICOM Part 14 grayscale standard, LG surgical displays are designed for accurate color recognition and depth perception during invasive surgery. It is an excellent solution for critical image precision in real-time.

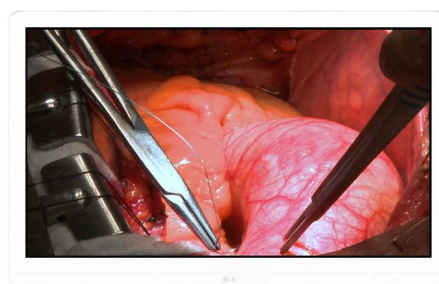
LG Surgical Displays Provide the Resolution, Convenience, and Reliability Required In Surgical Suites.

LG surgical displays feature FHD or 4K Resolution displays with a wide 178° wide viewing angle, giving everyone a clear view for confidence and efficiency. They support sRGB 115% and include brightness stabilization to maintain constant and consistent brightness.



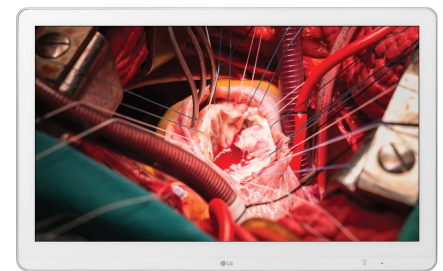
32HL714S-W

31.5" 4K (3840x2160) IPS LCD
Supports High Dynamic Range (HDR10)
Mirror & Rotate Mode
Up to 4PBP, PIP
Dustproof
Water-Resistant Protection Glass



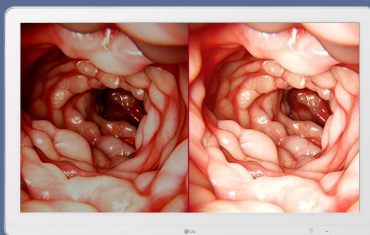
27HJ713S-W

FDA Class II
27" (3840 x 2160) IPS Display
115% of sRG Enhancing Deep Red
Dicom Part 14
Brightness Stabilization
Dynamic Sync Mode*
Anti-Reflection & Optical Bonding Glass
Dustproof, Water-Resistant



27HK510S

27" FHD (1920x1080) IPS Display
sRGB 115% (Deep Red)
Brightness Stabilization
Dustproof
Water-Resistant Protection Glass
Flicker Safe

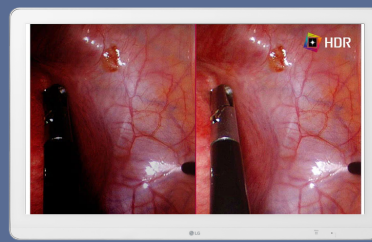


No Brightness
Stabilization

Brightness
Stabilization

BRIGHTNESS STABILIZATION

LG's surgical displays feature an auto luminance sensor that carefully measures the display backlight and local lighting conditions and optimizes the screen brightness for the surgical procedure to help maintain constant and consistent brightness.



Without HDR10

With HDR10

SUPPORTS HDR10

LG 4K surgical displays are compatible with HDR-supported medical devices. It delivers images in vivid color with accurate black levels and contrast and clear details in the highlights and shadows.



Original



Mirror



Rotation

MIRROR & ROTATION

The 32HL714S has Mirror & Rotate functions that help the surgeon set an optimal image view to improve efficiency and convenience during operations. You can select a 180° rotated image or a mirror image of the procedure.



key features*



DIAGNOSTIC IMAGES YOU CAN DEPEND ON

LG DXD products deliver high resolution and clear image quality with virtually no image distortion through 16bit image processing and can support pixel pitches of $140\mu m$ for high-resolution images.



IP53: WATER AND DUST RESISTANT

IP53 resistance rating⁽²⁾ ensures that LG DXD will be partially protected against dust that may harm the equipment and moisture spray up to 60° from vertical.

⁽²⁾ Ingress protection code IEC standard 60529

For High Resolution, Clear Images, Choose an LG Digital X-Ray Detector.

Featuring strong magnesium and carbon-fiber body construction, LG's Digital X-Ray Detectors with 16-bit image processing are lightweight, durable, and come in wireless or wired options.



Solid
Level 5



Liquids
Level 3



Maximum
Uniform Load



17HK701G-WP

140 μ m pixel size
16bit A/D conversion
Raw Image in 2.5 sec. (wireless)
Raw image in 2 sec. (wired)
IP53: Water and Dust Resistant
Magnesium & Carbon-fiber Body



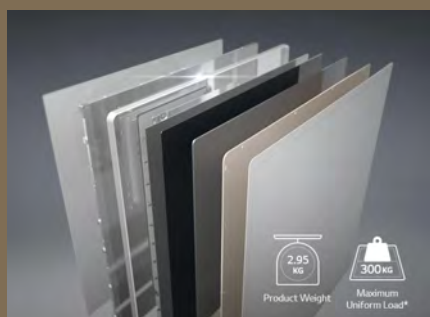
14HQ901G

Light yet durable carbon-fiber housing
Raw image in 2 sec. (wired)
IP68: Water and Dust Resistant
Highly sensitive CsI AED detector
(16 bit A/D conversion)



17HK700G-WP

Light yet durable carbon-fiber housing
Raw image in 2 sec. (wired)
IP53: Water and Dust Resistant
Highly sensitive CsI AED detector
(16 bit A/D conversion)



MAGNESIUM & CARBON-FIBER BODY

With a strong body that combines carbon fiber with magnesium, LG DXD is not only lightweight but also strong and durable.

Wired 2 Seconds



Wired 2.5 Seconds



IMPROVE WORK EFFICIENCY

LG DXD increases productivity thanks to fast processing times. It takes only 2 seconds with connection or 2.5 seconds for wireless to get a raw image.

* Key features may not be available for all models.
Screen images are simulated for illustrative purposes only.

Beyond the medical display solutions, LG also offers a wide range of digital displays for all areas of operation, including digital signage and cloud devices for lobby and reception areas and TVs for hospital rooms. LG gram notebooks provide outstanding computing capability.

When the details matter most, LG Medical Displays deliver.

Outstanding Service After the Sale

LG ExtendedCare™

LG's ExtendedCare Plan extended service coverage can provide additional protection for your investment in LG for commercial displays within the hospitality, healthcare, and digital signage markets. By choosing this program, you will enjoy the added peace of mind that comes with knowing your products are protected and downtime can be kept to a minimum.

LG Quick Swap (Advanced Exchange)

Minimizes down time of device and quickly gets the device up and running. LG will provide a return box and prepaid return shipping label for customer to return the unit. Service calls for Advanced Exchange must be made by 2pm CST.⁽³⁾

LG White-Glove Quick Swap (Advanced Exchange)

An LG authorized technician will meet you onsite. Technicians will remove, re-install and return product. Service calls for Advanced Exchange delivery calls must be made by 2pm CST.⁽³⁾

⁽³⁾ Next Business Day Exchange, 2nd Business Day Delivery or 3rd Business Day Delivery dependent on the product model and service option available.

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