





LG Diagnostic Monitor Tech Highlights

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LG Diagnostic Monitor

Tech Highlights

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32HL512D



21HK512D

Enhance Your Diagnostic Confidence with LG Diagnostic Monitor

Various medical images are used for diagnosis, such as mammography, CR, CT, MRI, endoscopy, PET, and 3D-CT. Unclear images make diagnosis difficult and time consuming. Accurate diagnoses require accurate and clear images from high quality monitors.

For over 35 years, LG has been the leader in the global display market, introducing a variety of high-resolution diagnostic monitors enhanced with innovative technology.

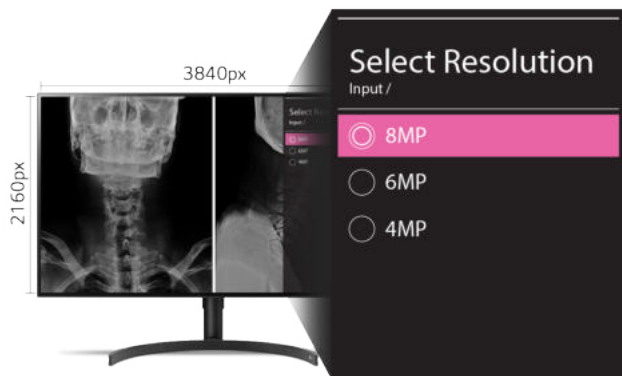
The LG Diagnostic Monitor provides superior 'Accuracy' by maintaining high quality image and resolution, fit for medical imaging. By offering optimal compatibility with various modalities, the LG Diagnostic Monitor enhances 'Work Efficiency' and 'User Convenience' to help healthcare professionals easily control conditions for diagnosis.

Accuracy

Compatible with Every Modality

Multi Resolution Option (8/6/4MP)

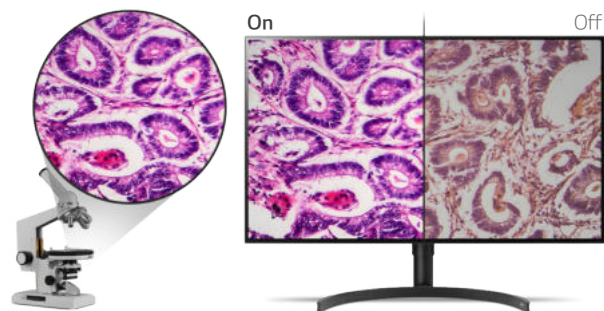
Diagnostic monitors often need to be connected to various modalities, all with differing resolutions requirements. To view medical images from multiple modalities with high accuracy on one monitor, the monitor must be able to adjust to the optimal resolution for each imaging modality. The resolution on the 32HL512D can be changed from 8MP, 6MP, to 4MP for greater compatibility across multiple modalities and needs.



True-to-Life Color Reproduction

Pathology Mode

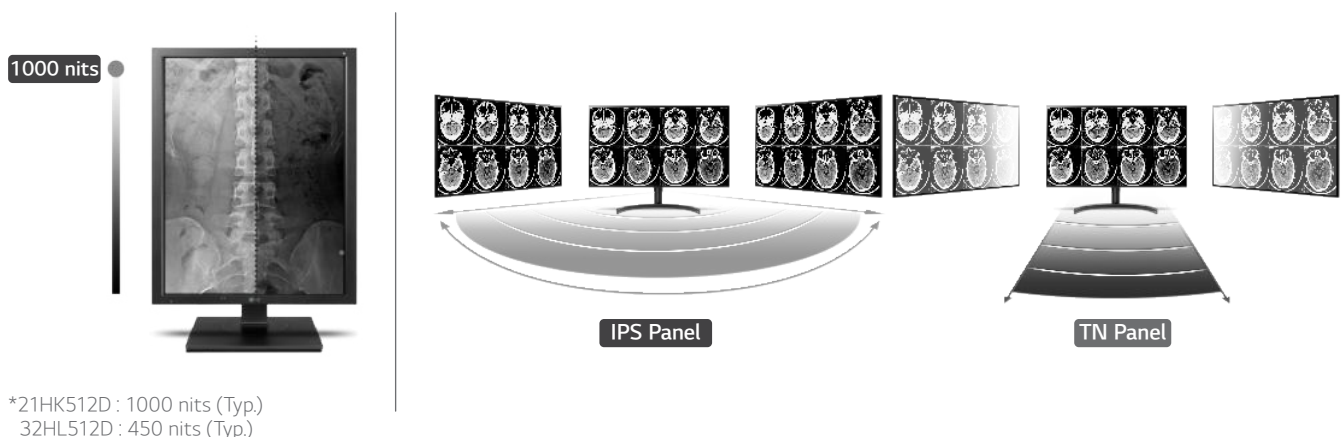
For an accurate diagnosis, the color of blood and tissue cells under a microscope should be exactly the same on the monitor display. Inaccurate colors can lead to inaccurate diagnoses, so high color reproducibility is essential for diagnostic monitors. In the clinical pathology mode, the 32HL512D reproduces the same detail and accurate color under a microscope directly on the monitor, to help healthcare professionals make more accurate diagnoses.



Fine Detail & Wide Viewing Angle

1000 nits | IPS Panel

The brightness of the monitor is essential for distinguishing details in medical images. The 21HK512D has a brightness of 1000nits, enabling health-care professionals with the ability to easily distinguish even the finest details to detect anomalies, which can lead to accurate diagnoses with CT and angiography images. Also, a multiple monitor setup has become the standard for the diagnostic process. With IPS panels, the 32HL512D and 21HK512D offer a wide viewing angle to ensure same images from every angle. This helps healthcare professionals reach a diagnosis more accurately.



*21HK512D : 1000 nits (Typ.)
32HL512D : 450 nits (Typ.)

Consistency in Medical Images

Auto Luminance Calibration | Remote & Auto Calibration

To reduce room of error during the diagnosis process, it is important that quality of medical images on diagnostic monitors shown are consistent with the optimal brightness. The 21HK512D is self-calibrated with a sensor on the front of the monitor, without the need for manual adjustment or additional operating costs. It can also be remotely calibrated with the Remote & Auto Calibration feature. With self-adjusting calibration, the LG Diagnostic Monitor improves the quality and consistency of medical images displayed.

*32HL512D : Auto Luminance Calibration, 21HK512D : Remote & Auto Calibration

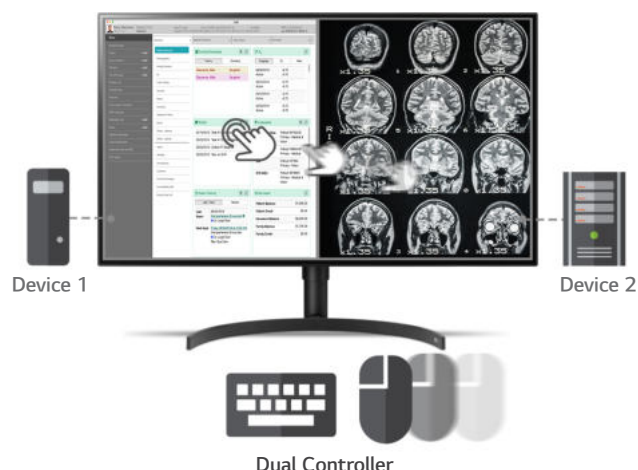
Work Efficiency

See More Signals Easily

2PBP | Dual Controller

For a more accurate and faster diagnosis, patient information from multiple sources is needed to be examined on a single screen. The PBP and dual controller features allow healthcare professionals to split the screen to display the information and images needed. For example a patient's profile, before and after comparison clinical images, or images from other modalities, can be seen all at the same time on one Device 1 screen. And, managing multiple devices connected to one screen, keyboard, and mouse helps make the review process simplified and easy.

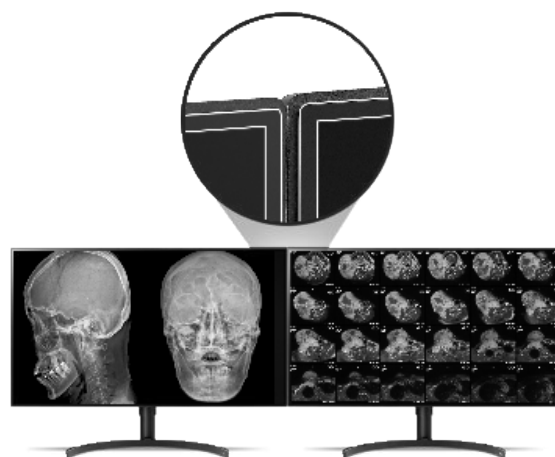
With the 2PBP and dual controller features, enjoy multitasking with a multiple modality connection to a single monitor that allows you to work more efficiently.



Seamless Multi Monitor Setup

4-side Virtually Borderless Design

It is very common to use multiple monitor setup in most medical facilities, due to the need for various information required for a more accurate diagnosis. When setting up multiple monitors, thicker bezels take up too much space between the connected monitors, which can be quite distracting to healthcare professionals. The 32HL512D alleviates this with a narrow bezel, for a seamless view and a workstation for more productivity.



Ultimate Expandability

USB 2.0 | DisplayPort | HDMI

Every diagnostic monitor needs multiple ports and connections. The LG Diagnostic Monitor provides the convenient support for various ports such as USB Upstream, USB 2.0, DisplayPort, and HDMI for multiple medical modality connection for a single display.



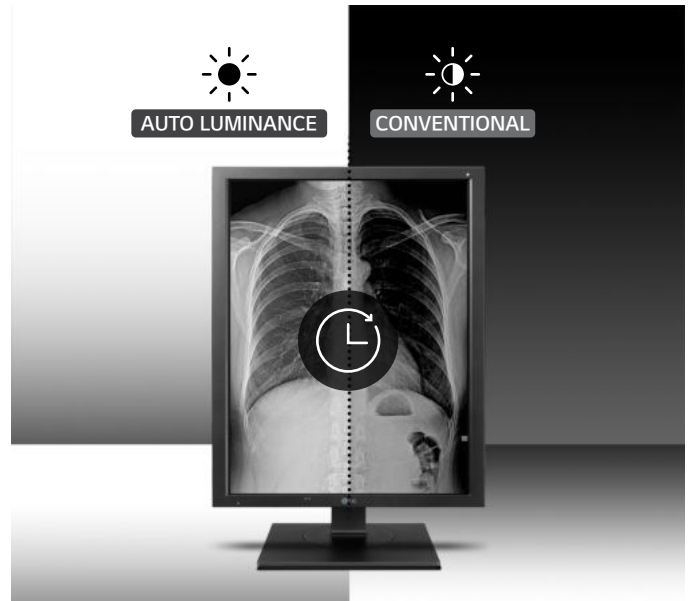
User Convenience

Reduced Eye Fatigue

Auto Luminance Sensor

If the screen brightness is different from the ambient light, it is difficult for your eyes to focus, causing the pupils to either dilate or contract every time eyes move to different parts of the screen. Under such lighting conditions, pupil dilation and contraction ultimately leads to eye fatigue. It is important to see images under a screen brightness similar to ambient lighting conditions to reduce eye strain.

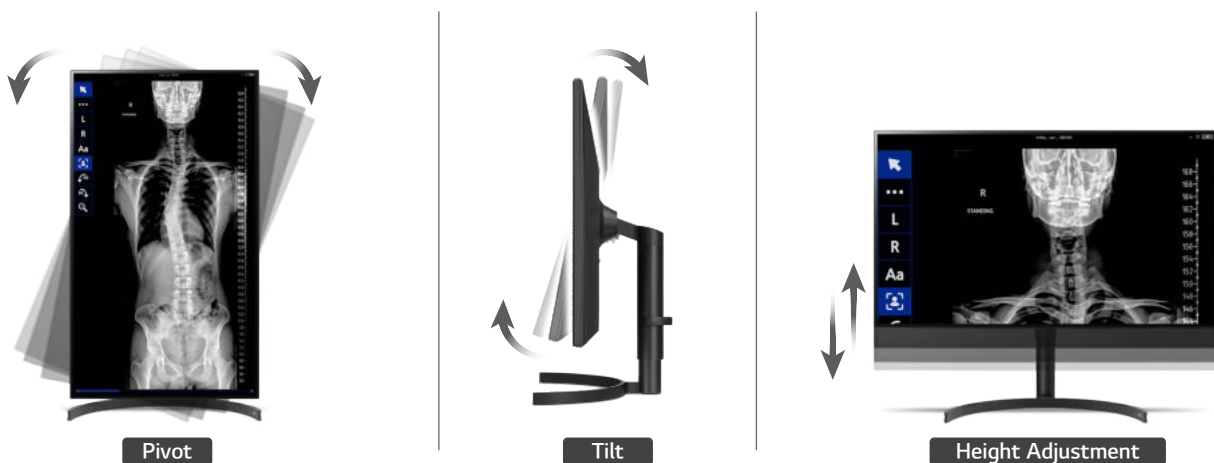
Clinical review rooms are usually dark, so if the screen brightness is not adjusted, the difference is large between ambient light and screen brightness, so it is necessary to provide more optimal brightness. The LG Diagnostic Monitors have an Auto Luminance Sensor that automatically adjusts screen brightness to protect eyes for a screen brightness that is optimal for the ambient light conditions.



Better Comfort for Diagnostic Review

Tilt / Swivel / Height Adjustment

Medical staff usually stand for long periods of time, which can quickly lead to physical fatigue. To help reduce this, it's important to have monitors that are customized to improve such working conditions with an ergonomic design. The LG Diagnostic Monitor has an ergonomic stand that allows you to easily control the tilt, swivel and height for a more comfortable display.








Product Brief



31.5-inch 8MP Diagnostic Monitor

| 32HL512D |

-  31.5" 8MP (3840x2160) IPS Display
-  Multi Resolution Option (8/6/4MP)
-  PBP / PIP
-  Pathology Mode
-  Auto Luminance Calibration



21.3-inch 3MP Diagnostic Monitor

| 21HK512D |

-  21.3" 3MP (2048x1536) IPS Display
-  1000 nits (Typ.)
-  DICOM compliant
-  Remote & Auto Calibration
-  Auto Luminance Sensor

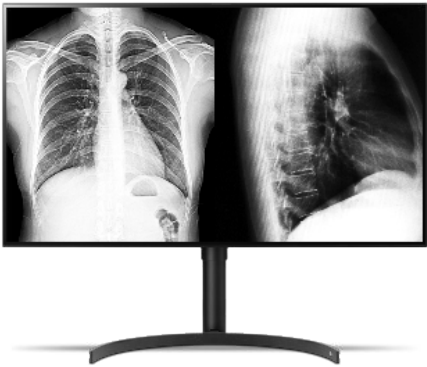

Feature Matrix

LG Diagnostic Monitors

Resolution		8MP (3840 x 2160)	3MP (2048x 1536)
Inch (Aspect Ratio)		31.5" (16:9)	21.3" (4:3)
Model		32HL512D	21HK512D
Accuracy	Multi Resolution Option (8/ 6/ 4MP)	✓	
	Pathology Mode	✓	
	Brightness (Typ.)	450 nits (Typ.)	1000 nits (Typ.)
	IPS Panel	✓	✓
	Calibration	✓ (Auto Luminance Calibration)	✓ (Remote & Auto Calibration)
Work Efficiency	2PBP	✓	
	Dual Controller	✓	
	Borderless Design	✓ (4-Side Virtually Borderless Design)	
	Connectivity	DisplayPort, HDMI, USB (Upstream, Downstream), USB 2.0	DisplayPort, USB (Upstream, Downstream)
User Convenience	Auto Luminance Sensor	✓	✓
	Tilt / Swivel / Height Adjustment	✓	✓

Specification

LG Diagnostic Monitors

Model		32HL512D	21HK512D
			
Panel	Type	IPS	IPS
	Pixel Pitch	0.18159mm x 0.18159mm	0.2115mm x 0.2115mm
	Surface Treatment	Anti-Glare	Anti-Glare
	Color Gamut (Typ.)	DCI-P3 98% (CIE1976)	NTSC 72%
	Viewing Angles (CR≥10)	178° (Right/Left), 178° (Up/Down)	178° (Right/Left), 178° (Up/Down)
	Brightness (Typ.)	450cd/m ² (Typ.)	1000cd/m ² (Typ.)
	Contrast Ratio (Typ.)	1300:1 (Typ.)	1400:1 (Typ.)
	Response Time (GtG*)	14ms (Off- setting), 5ms (Faster- setting)	30ms (Typ.)
Feature	DICOM	DICOM Compliant	DICOM Compliant
	Factory Calibration	Yes (Delta E<5, Gamma 1.8~2.6/DICOM curve)	Yes (Delta E<10, Gamma 1.8~2.2/DICOM curve)
	HDR	HDR 10	No
Video Signals	Input Terminals	HDMI x1 / DisplayPort x2	DVI x1 / DisplayPort x1
USB		1 upstream, 2 downstream	1 upstream, 2 downstream
Power	Power Requirements	100-240Vac, 50-60Hz	100-240Vac, 50-60Hz
	Power Consumption (Max)	65W	100W
Certifications & Standards		IEC (IEC 60601-1 / IEC 60601-1-2), EN (EN 60601-1 / EN 60601-1-2), cUL (ANSI/AAMI ES 60601-1, CSA CAN/CSA-C22.2 NO. 60601-1), FCC (FCC part 15 Class A), FDA (510(k) Class II), CE, RoHS, REACH, WEEE	IEC (IEC 60601-1 / IEC 60601-1-2), EN (EN 60601-1 / EN 60601-1-2), cUL (ANSI/AAMI ES 60601-1, CSA CAN/CSA-C22.2 NO. 60601-1), FCC (FCC part 15 Class A), FDA (510(k) Class II), CE, RoHS, REACH, WEEE
User Convenience	PBP /PIP	2PBP	No
Physical Specifications	Weight (with stand)	7.3 kg (16.09 lbs)	9.8 kg (21.60 lbs)

*GtG : Gray to gray response time