

RSNA 2021 Booth #2559

**FOR IMMEDIATE RELEASE****LG UNVEILS FIRST OXIDE-BASED TFT DIGITAL X-RAY DETECTOR,  
NEW 3MP DIAGNOSTIC MONITOR AT RSNA 2021***LG Electronics expands radiology offerings with innovative diagnostic imaging products*

**CHICAGO, Nov. 30, 2021** – [LG Business Solutions USA](#) is introducing a new oxide-based thin-film-transistor Digital X-ray Detector (DXD) and 21-inch 3MP diagnostic monitor this week in Chicago at RSNA 2021, the annual meeting of the Radiological Society of North America.\*

The wireless 14-x17-inch DXD (model 14HQ901G\*) will utilize a new oxide-based TFT design to deliver high Detective Quantum Efficiency (DQE), while the 21-inch diagnostic monitor (model 21HQ513D-B\*) will introduce localized brightness control to optimize radiological image review, analysis and diagnosis. Both models are on display in LG’s RSNA booth #2559.

“LG is committed to innovating new products that help medical professionals provide the best care possible,” said Brian Fabrizio, medical information displays team leader at LG Business Solutions USA. “Underscoring that commitment, the pending launch of our new DXD and 3MP diagnostic monitor is expected to deliver new capabilities and efficiencies to practitioners.”

The new LG DXD will feature an oxide-based thin-film transistor (TFT) with electron transfer speeds almost 30 times faster than a conventional a-Si TFT. By increasing the CsI thickness of the 14HQ901G from 300um to 500um, LG has also improved the DQE of the new oxide-based TFT by 28 percent at 1 lp/mm, compared to 14HK701G. This DXD also will provide a robust design with concave edges and convenient grips built to withstand a 1.5 meter drop.

The new DXD model is expected to feature LG Acquisition Workstation Software version 3.0,\* which can analyze X-rays then inform the medical provider of any abnormalities and provide an abnormality score with a colored heat map or contour that marks any lesions detected. Images



sent directly from the DXD to a connected workstation with LG Acquisition Workstation Software version 3.0 would be viewed within seconds, allowing users to obtain X-ray images with ease. Additionally, LG SW Grid estimates and corrects scattered radiation.

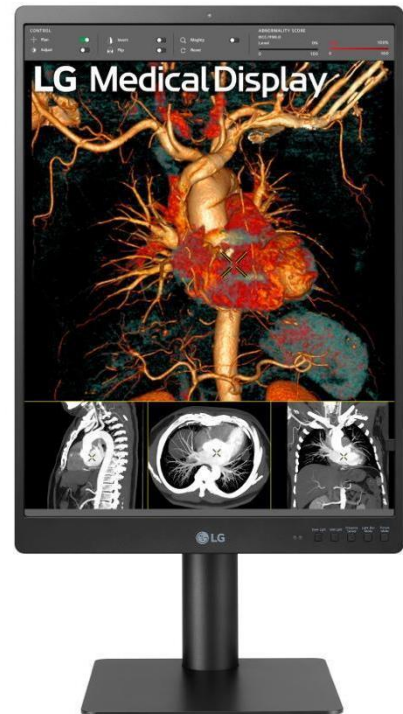
The soon-to-be-released 3-megapixel, 21.3-inch high-brightness diagnostic monitor will feature advanced localized brightness control and resolution of 1536 x 2048 pixels for displaying radiological images. The 21HQ513D-B IPS display is designed to facilitate precise review of MRI and CT images through Focus View, allowing users to review specific parts of an image more closely with magnification and brightness adjustment.

The portrait-oriented monitor is designed to provide max brightness of 1100 nits with an 1800:1 contrast ratio to enable precise review of digital images while helping to illuminate abnormalities. LG also designed the monitor with multiple sensors to help ensure an optimized diagnostic environment regardless of room conditions.

The Backlight Sensor will automatically adjust luminance to stabilize brightness for consistent imagery, while the Auto Luminance Sensor will help ensure screen brightness is optimized for the ambient lighting conditions. The built-in Presence Sensor automatically turns off the display when no motion is detected, saving energy and extending the monitor's lifespan. Finally, the Front Sensor will enable automatic hardware calibration without additional equipment, which improves image quality and consistency while reducing required staff and ongoing costs.

Leaving no stone unturned, LG also carefully designed the monitor to have an lightweight body and one-click ergonomic stand, offering users convenient adjustments for height, tilt and pivot to help reduce chronic pain caused by long hours of viewing and poor posture.

At RSNA 2021, LG also is highlighting its full line of existing DXD detectors and diagnostic monitors. For more information on LG's full line of medical display technology, please visit [here](#). To download images, click [here](#).



*\*Pending FDA 510(k) notification. Each of these products is not available for sale in the United States and may not be ordered for sale, lease or distribution in commerce, or sold, leased or distributed in commerce, until proper authorization is obtained.*

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