

FAQs

I thought OLED wasn't accepted for radiology reading due to concerns about pixel burn-in?

• OLED blue subpixels age faster and can cause burn-in, but our 21.6" & 27" OLED panels use an **RGBB structure with two blue subpixels** to extend blue lifetime. We also use an **adaptive algorithm** that gradually increases blue-pixel drive current to keep brightness consistent over the panel's life. Because radiology images aren't static for long periods—only toolbars stay still—any minor burn-in would be limited to the screen edges and **would not affect diagnostic image quality**.

Do you offer a fully integrated medical monitor?

• No. However, we work with established medical monitor manufacturers who can support the design, development, and delivery of custom medical solutions.

Do you have the in-house capability to embed your products into a system? Yes, we have:

- Engineering Expertise
- Integration & Testing Infrastructure
- Procurement
- Regulatory & Compliance Knowledge
- Project Management
- Reporting & Support

Do your products have FDA clearance and meet medical safety standards?

• No. FDA clearance and compliance with medical safety standards are handled by our medical monitor manufacturing partners during product development and delivery.

My radiology monitors use edge-lit LED backlights. Could they be upgraded to Mini-LED with a direct-lit backlight?

• Absolutely! We can integrate Mini-LED backlighting into any monitor size to increase brightness, improve luminance uniformity, and enable localized brightness boosting in areas of interest. The monitor can also operate in Full Array Local Dimming (FALD) mode to deliver true blacks, supporting additional medical imaging applications.

Metrics



10+
Industry First



50+
Custom Design Wins



900K+
Units Shipped Worldwide

Our Story

Founded in 2013, Lincoln Technology Solutions is a display-first company built by engineers who turn bold ideas into real-world solutions. We specialize in developing, manufacturing, and integrating cutting-edge OLED and LCD displays for custom applications of any complexity. With a U.S.-based engineering team and global operations, we provide full design and integration services — from concept to production — backed by deep expertise in ruggedization, driver boards, and embedded solutions.

Your vision, our displays — that's our promise.

Contact Us

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Enhancing Clarity for Better Clinical Outcomes

Medical Visualization Display Solutions



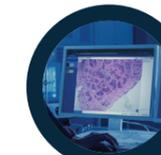
Radiology Reading



Diagnostic Ultrasound



Surgical



Digital Pathology



Interventional Radiology



Patient Monitoring

Radiology Reading



Display Images at 14" x 17" detector size

Dual 27" 8MP OLED Display Panel Demo:

OLED Advantages:

- High dynamic range = More JNDs
- Less ambient light reflection = Lower black level
- Faster response time = Smoother CT/MR/DBT image scrolling
- Thinner and light weight = Easy desktop deployment
- Low power = Less heat and no fans

32" 8MP Mini-LED Display Available:

Mini-LED Advantages:

- Enhanced brightness uniformity = Diagnostic confidence
- Brightness boosting = Highlight areas of interest
- Higher brightness = Longer life
- Low power = Less heat and no fans



Diagnostic Ultrasound



15.6" - Ideal for portable systems

21.6" - Perfect for cart-based systems

15.6" & 21.6" OLED Display Panel Demos:

OLED Advantages:

- Higher contrast ratio = True blacks deepen dynamic range
- No backlight glow = Observe subtle grayscale differences
- Fast response time = Real-time imaging, no motion artifacts
- Wide color gamut = More precise Doppler colors
- Thin, light-weight = Well-suited for streamlined designs
- Low power = Less heat and no fans



4K OLED & Mini-LED/FALD Advantages

4k OLED:

- Infinite contrast ratio
- Fast response time
- Wide color gamut
- Thin, light-weight
- Low power consumption

Mini-LED/FALD:

- Superior brightness
- Exceptional contrast ratio
- Wide color gamut
- Enhanced uniformity
- Low power consumption

Endoscopy

27" 4K OLED Display Panel Demo:

- Colors appear more accurate & precise
- Low-latency & blur-free performance
- Discern subtle tissue variations
- Well-suited for streamlined designs

Digital Pathology

27" 4K OLED Display Panel Demo:

- Enhances tissue structures and staining differences
- Ideal when navigating large digital slides at high magnification
- Discern subtle histological variations and staining intensities

Interventional Radiology

27" 4K OLED & 32" 4K Mini-LED Display Demo:

- Precise catheter navigation & viewing of coronary arteries
- Improved hand-eye coordination, reduces fatigue

Patient Monitoring

10.1" Mini-LED/FALD Display Panel Demo:

- True blacks accentuate waveforms
- View subtle changes of waveforms in bright light conditions
- Anti-Reflective & Anti-Fingerprint

Surgical Precision