

# DENSITRON

Advanced medical displays  
Custom HMI design  
Complete engineering partnership

Empowering medical device innovators  
with safe, compliant, and intuitive displays  
and HMI solutions

[www.densitron.com](http://www.densitron.com)



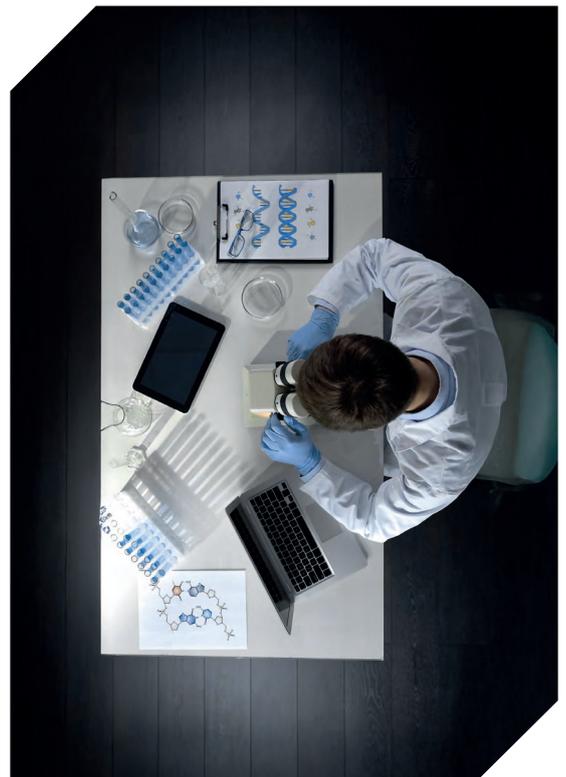


# Introduction

For over five decades, Densitron has been at the forefront of display and human-machine interface (HMI) innovation.

Today, that expertise powers a new generation of medical and life sciences applications - from patient monitoring systems to diagnostic instruments.

Our ISO 13485–certified processes ensure that every display module we design and manufacture meets the stringent requirements of active medical device use, delivering unmatched reliability, control, and performance consistency.



# Introduction

Our technology integrates seamlessly, supporting faster development cycles, easier regulatory alignment, and dependable field performance.

We develop solutions built for precision and reliability, suited to demanding medical environments where performance and compliance are critical. Through rigorous validation and certified manufacturing standards, we ensure every component delivers consistent, dependable results. Whether you are a design consultancy or an OEM developing the next generation of medical technology or enhancing existing systems, our expertise helps accelerate time to market without compromising quality or safety.



#### **Certified quality**

ISO 13485–compliant manufacturing for active medical devices.



#### **Reliability you can trust**

Zero-pixel-defect standards, optical bonding, long lifecycle components.



#### **Designed for clinical use**

Nitrile-gloved touch performance, antimicrobial coatings, high-brightness readability.



#### **Proven heritage**

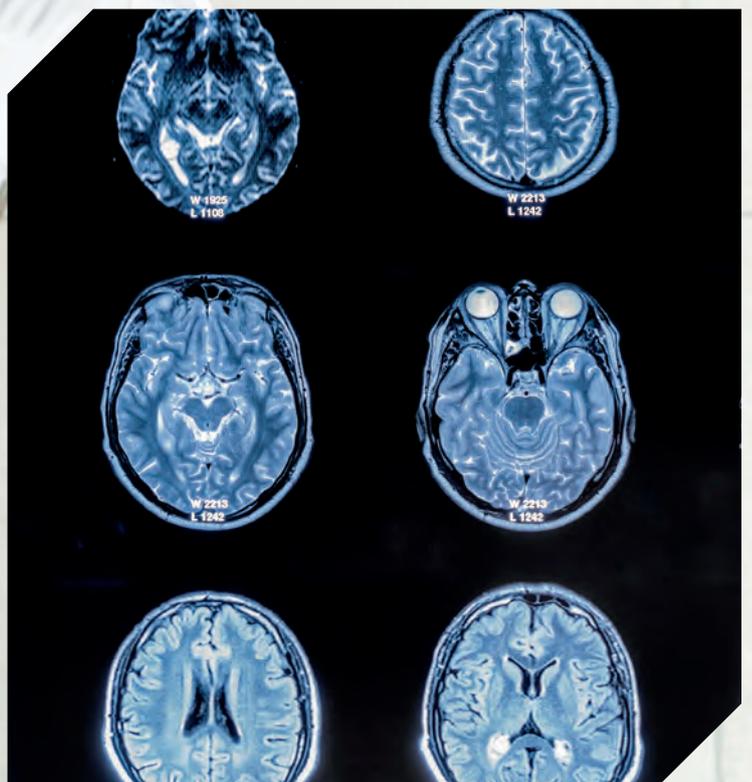
Over 50 years of mission-critical display innovation.



#### **Expert integration support**

Fast, efficient onboarding and customization guidance.

Technology that empowers you to **focus** on what matters most.



# Why Densitron

Densitron's medical display solutions go beyond performance - they enhance the overall usability, safety, and design appeal of your device.

Our deep expertise in Human Machine Interface (HMI) and display engineering ensures every touchpoint delivers clarity and confidence, even in the most critical care settings.

## Key benefits

- Hygienic, sealed, and easy-to-clean interfaces designed for sterile environments.
- Long-term product availability and medical-grade reliability.
- Compliance with ISO 13485 and IEC 60601 standards.
- Aesthetically refined designs that enhance the visual appeal of medical equipment.

## Why partner with Densitron

- Proven expertise in display integration and embedded control systems.
- A global engineering and support network for responsive collaboration.
- Commitment to regulatory compliance and design excellence.
- Trusted by leading medical and life science OEMs and medical design houses worldwide.

## Your partner in precision

We help medical innovators to bring reliable, intuitive, and beautiful devices to life. From concept to production, we are your partner in delivering displays that don't just perform - they inspire confidence.

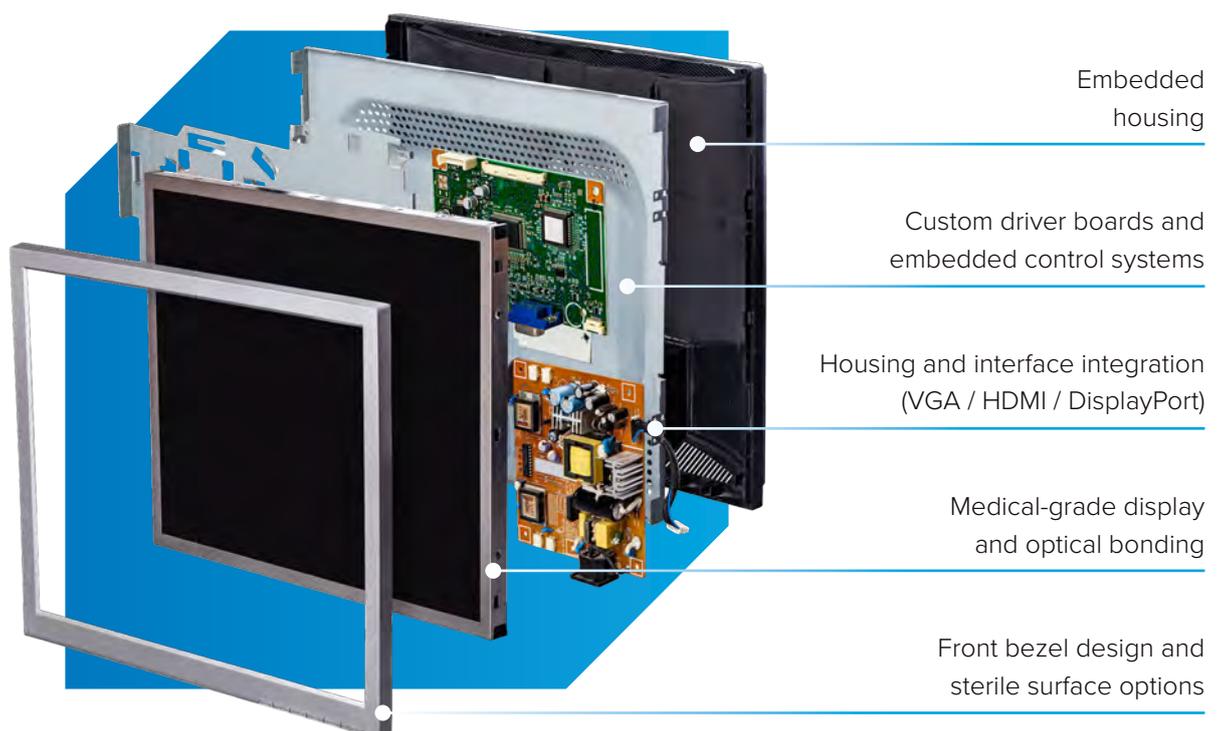


# Custom engineered medical products

Every medical product is unique - and so are its performance requirements. We offer fully integrated, custom-engineered medical display solutions designed to meet specific mechanical, electrical, and regulatory needs.

By partnering with Densitron, medical device manufacturers can streamline R&D efforts, accelerate certification timelines, and focus internal resources on software innovation and user experience - while we handle the certified hardware foundation.

## From display to driver – A complete, compliant build



# Advanced medical displays

Empowering medical and life science professionals with intuitive display and control solutions that enhance accuracy, usability, and confidence.

In medical and life science environments, precision, reliability, and hygiene are essential. We deliver advanced display and control technologies that combine exceptional visual performance with intelligent design - empowering healthcare professionals to make decisions with confidence.

Our displays are engineered for consistency, clarity, and compliance, meeting stringent regulatory standards while maintaining long-term stability and availability. Whether integrated into patient monitoring systems, diagnostic instruments, or life science analyzers, we ensure performance that can be depended on - day after day.

## We eliminate common challenges faced by medical OEMs and design houses when sourcing components

We address the challenges that medical and life science innovators face when developing reliable technology. Variability in component supply, quality, and performance can compromise system integrity and compliance. Densitron ensures stability and traceability through medically aligned, high-performance display and HMI solutions - giving manufacturers and operators a dependable platform for precision, safety, and innovation.



**TFT**  
**Sizes 0.96" - 55"**  
Bar type, square, round, and custom



**OLED**  
**Sizes 0.66" - 27"**  
Industrial-grade AMOLED and PMOLED.



**E-paper**  
**Sizes 2.13" - 13.3"**  
Low-power monochrome options.



**Monochrome**  
**Sizes 1" - 13.3"**

# Tactile and haptic technology

Human–machine interaction in clinical environments must be intuitive, responsive, and reliable.

While touchscreens are common, tactile feedback remains essential for precise control - especially in sterile or gloved-use scenarios. Densitron's Tactila® technology delivers advanced touch feedback and customizable haptic profiles that can be fine-tuned for surgical precision or device confirmation cues.



Integrated on-screen buttons, rotary dials, and faders powered by Tactila®.



Glove-touch optimized for nitrile and latex applications.



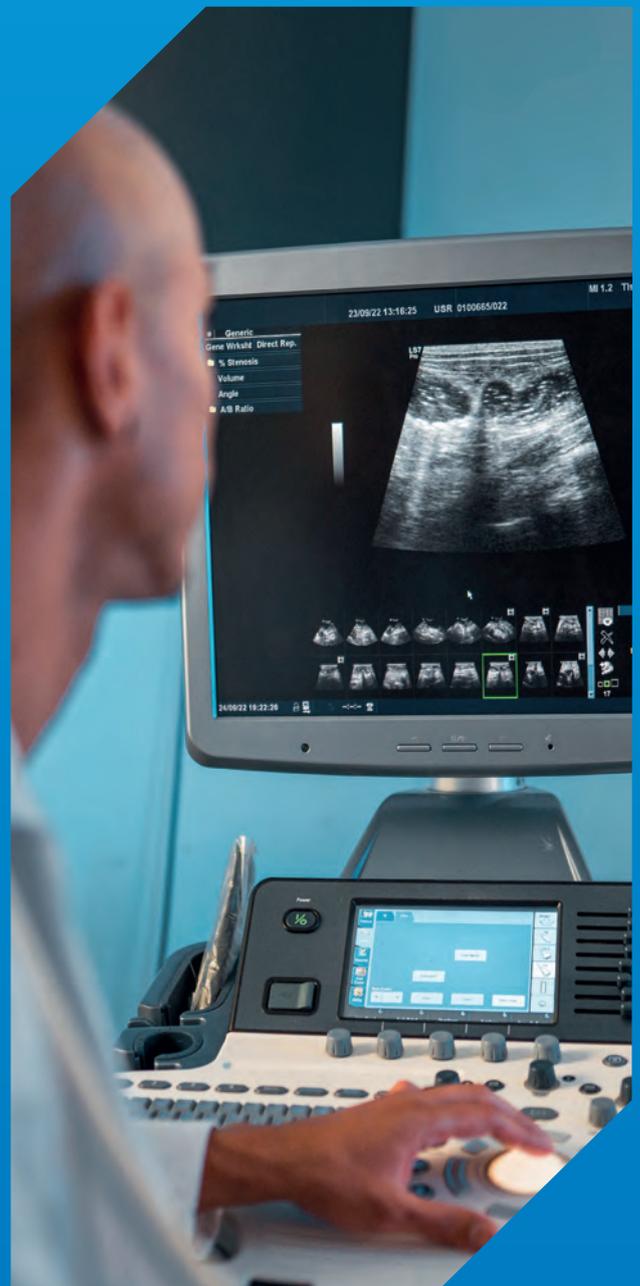
With localized vibration feedback for precise, user-defined responses.



Plug-and-play tactile hardware including encoders, rotary dials, and faders.



DensiSDK™ and JogDial™ technologies for seamless integration across device types.



# ids

## Medical control solution

Our IDS medical integration system connects and controls multiple clinical and imaging devices - from displays and cameras to lighting and data systems - all through a single, intuitive interface.

Designed for medical-grade reliability, IDS simplifies complex workflows, allowing clinicians, technicians, and engineers to focus on patient care rather than managing multiple systems.

Our team works directly with medical device manufacturers, hospitals, and system integrators to customize IDS for each application.

Whether you need a dedicated operating theatre controller, a modular display interface, or a compliant embedded platform, we will engineer a solution that fits your workflow.

IDS can be implemented and installed onto a wide range of our finished hardware products.



### Simplify control across your clinical environment. Any device. Any network. All at once.



#### Operating theatre integration

Coordinate lighting, surgical displays, and imaging feeds seamlessly.



#### Diagnostic environments

Manage multiple screens, modalities, and peripheral devices from one interface.



#### Laboratory and Life Science applications

Automate display, scheduling, and data visualization functions.



#### Enhance efficiency.

Reduce human error. Improve clinical focus.



# DENSITRON

A global partner in  
medical technology

To learn more about our medical display  
and integration solutions, contact our  
specialist team at [contact@densitron.com](mailto:contact@densitron.com).

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