

Global Medical Display Monitors Market Forecast 2026-2034

Market Report | 2026-02-10 | 305 pages | Inkwood Research

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- Single User Price \$2900.00
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Report description:

KEY FINDINGS

The global medical display monitors market size is valued at \$3087.23 million as of 2026 and is expected to reach \$4902.03 million by 2034, progressing with a CAGR of 5.95% during the forecast years, 2026-2034. The base year considered for the study is 2025, and the forecast period is between 2026 and 2034. The market study has also analyzed the crisis impact on the medical display monitors market qualitatively as well as quantitatively.

Medical display monitors represent specialized visualization systems engineered to meet the rigorous demands of healthcare imaging environments. Unlike consumer displays, these medical-grade monitors undergo strict calibration to DICOM Part 14 standards, ensuring consistent grayscale rendering across clinical workflows.

Healthcare facilities deploy these advanced systems in radiology suites, operating rooms, and diagnostic centers where image accuracy directly impacts patient outcomes. Medical display monitors for diagnostic imaging deliver superior brightness levels, typically ranging from 400 to 1,000 cd/m², compared to standard displays. Furthermore, these systems incorporate built-in calibration sensors that automatically maintain compliance throughout their operational lifespan, reducing manual quality control requirements.

Growth in the medical display monitors market stems from escalating diagnostic imaging volumes worldwide. According to FDA data, over 3,000 medical devices received 510(k) clearance in fiscal year 2024, many requiring advanced visualization capabilities. Additionally, healthcare facilities are transitioning from legacy systems to high-resolution 4K and 8K displays.

Minimally invasive procedures demand real-time visualization, driving the adoption of medical monitors for operating rooms with low latency and high brightness. Telemedicine expansion also necessitates calibrated displays for remote diagnostics, supporting consistent image interpretation across distributed networks.

MARKET INSIGHTS

Key enablers of the global medical display monitors market growth:

- Rising global volume of medical imaging procedures is driving demand for accurate visualization tools
- Increasing investment in digital hospital infrastructure is supporting monitor upgrades
- Growth in minimally invasive surgeries is boosting demand for high brightness and low latency displays
- Expansion of telemedicine and remote diagnostics is supporting the wider deployment of medical displays
- o□ Telemedicine platforms have fundamentally altered how healthcare providers deliver diagnostic services. Consequently, medical display monitors must now support secure network transmission without compromising image fidelity.

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o Remote consultation workflows require displays that maintain DICOM calibration and medical display monitor standards across various locations. Healthcare organizations report that calibrated displays enable consistent interpretation of radiology images transmitted over telehealth networks.

o This trend gained momentum as the FDA authorized over 1,000 AI-enabled medical devices by early 2025, many incorporating advanced imaging analytics requiring precision displays. Moreover, approximately 3 million laparoscopic procedures occur annually in the United States, each demanding real-time visualization through high-performance surgical displays.

Key growth restraining factors of the global medical display monitors market:

- High initial cost of medical-grade display monitors limits adoption in smaller healthcare facilities

- Stringent regulatory and compliance requirements increase product development time

- Long replacement cycles in hospitals slow overall market turnover

- Availability of lower-cost consumer displays creates price pressure in non-critical applications

o Budget-conscious healthcare facilities sometimes opt for consumer-grade displays in non-critical applications, creating downward pricing pressure. Although these alternatives cost significantly less, they lack essential features like automated DICOM calibration and built-in sensors. Hospitals typically maintain medical display monitors for five to seven years before replacement, extending capital expenditure cycles.

o Additionally, stringent FDA 510(k) submission requirements for diagnostic displays lengthen time-to-market for new innovations. Manufacturers must demonstrate substantial equivalence to predicate devices, requiring extensive testing and documentation. This regulatory complexity particularly impacts smaller companies seeking to enter the medical display monitors suppliers worldwide ecosystem.

Global Medical Display Monitors Industry | Top Trends

- Multi-modality and large-format displays are increasingly deployed in operating rooms to accommodate complex surgical workflows. Hybrid operating rooms now feature displays exceeding 42 inches, enabling simultaneous viewing of multiple imaging modalities. Stryker maintains over 11,000 integrated operating rooms in the United States as of 2024, while Karl Storz operates more than 6,000 installations. These expansive displays support real-time visualization during interventional procedures where spatial awareness proves critical. Furthermore, large-format medical display monitors in hospitals facilitate team collaboration by providing clear visibility for entire surgical teams.

- AI-assisted image enhancement features are gaining traction across radiology departments worldwide. These intelligent systems automatically adjust brightness and contrast based on image content and ambient lighting conditions. Medical display monitors for radiology now incorporate algorithms that highlight subtle anomalies, supporting faster diagnosis. Healthcare facilities report that AI-enhanced displays improve interpretation speed without compromising accuracy in clinical workflows.

- Antimicrobial and easy-to-clean display surfaces are becoming standard specifications in infection control protocols. Hospital-acquired infections drive demand for medical monitors with specialized coatings that withstand frequent disinfection. Manufacturers now apply antimicrobial treatments to display housings and touchscreens, reducing pathogen transmission in clinical environments. These hygienic design features align with evolving healthcare standards, emphasizing patient safety. Medical display monitors buying guide criteria increasingly prioritize ease of cleaning alongside traditional performance metrics.

- Energy-efficient and lightweight display designs are emerging to address operational cost concerns and installation flexibility. LED-backlit technology consumes substantially less power than legacy CCFL systems while delivering superior brightness. Healthcare facilities appreciate reduced electricity expenses and lower cooling requirements from efficient displays. Lightweight construction simplifies mounting in constrained spaces like surgical booms and mobile carts. Best medical display monitors for hospitals now balance performance with sustainability, reflecting institutional environmental commitments. These design improvements support both cost reduction initiatives and flexible deployment across diverse clinical settings.

SEGMENTATION ANALYSIS

Market Segmentation - Display Colour, Resolution, Technology, Panel Size, and Application -

Market by Display Colour:

- Greyscale

o Greyscale medical display monitors specialize in rendering monochromatic images with exceptional tonal precision. These displays excel in mammography, general radiography, and chest imaging, where subtle density variations indicate pathology.

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Features to look for in medical display monitors include DICOM calibration, medical display monitors compliance, typically maintaining accuracy within ±5% of the standard curve.

o Greyscale systems employ sophisticated calibration algorithms that map luminance output to perceptually linear brightness levels. Demand drivers include regulatory requirements mandating calibrated displays for primary diagnostic interpretation. FDA guidance specifies performance criteria for diagnostic radiology displays, supporting continued adoption of greyscale monitors.

o Healthcare providers value these specialized displays for their ability to reveal microcalcifications and other subtle findings invisible on standard displays. This sub-segment supports overall market growth by serving high-acuity diagnostic applications where visualization accuracy directly impacts patient outcomes and clinical decision-making processes.

- Color

Market by Resolution:

- 2.1-4MP

- 4.1-8MP

- Above 8MP

- Up to 2MP

Market by Technology:

- LED-Backlit LCD Displays

- OLED Displays

- CCFL-Backlit LCD Displays

Market by Panel Size:

- 23.0-26.9 Inches

- 27.0-41.9 Inches

- 42 Inches and Above

- Under 22.9 Inches

Market by Application:

- Diagnostic

- Surgical

- Clinical

- Dental

- Education & Training

- Telemedicine

REGIONAL ANALYSIS

Geographical Study based on Four Major Regions:

- North America: The United States and Canada

- Europe: The United Kingdom, Germany, France, Italy, Spain, Poland, Belgium, and Rest of Europe

- Asia-Pacific: China, India, Japan, Australia & New Zealand, South Korea, Thailand, Indonesia, Vietnam, and Rest of Asia-Pacific

o China's medical display monitors market demonstrates robust expansion driven by healthcare infrastructure modernization initiatives. Government investments in digital hospital systems are accelerating the adoption of medical monitors for PACS and imaging across tier-one through tier-four cities. Domestic manufacturers like Jusha Medical and Reshin compete alongside international brands, offering cost-competitive alternatives.

o The proliferation of private hospitals and diagnostic chains expands the addressable market for healthcare display monitors' use cases. Regulatory alignment with international standards facilitates technology transfer and quality improvements across Chinese manufacturers.

o Telemedicine adoption in rural areas creates demand for calibrated displays supporting remote consultation workflows. China's aging population drives increasing diagnostic imaging volumes, necessitating continued investment in advanced visualization technologies through 2034 and beyond.

- Rest of World: Latin America, the Middle East & Africa

Our market research reports offer an in-depth analysis of individual country-level market size and growth statistics. We cover the

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segmentation analysis, key growth factors, and macro-economic trends within the medical display monitors market, providing detailed insights into -

- Japan Medical Display Monitors Market
- Indonesia Medical Display Monitors Market
- The United States Medical Display Monitors Market

COMPETITIVE INSIGHTS

The major players in the global medical display monitors market are:

- Barco
- EIZO Corporation
- Sony Electronics Inc
- LG Electronics
- Advantech Co Ltd

Key strategies adopted by some of these companies:

- In October 2024, Barco unveiled its Coronis OneLook display to commemorate Breast Cancer Awareness Month and the company's 90th anniversary. This flagship 32-megapixel breast imaging display offers the highest resolution available, enabling radiologists to view complete mammography images without zooming. The launch represents significant innovation in specialized diagnostic displays for breast radiology applications.
- EIZO Corporation introduced the RadiForce RX570 in May 2025, a 21.3-inch 5-megapixel color monitor specifically designed for breast imaging applications, including mammography and tomosynthesis. This product launch demonstrates continued investment in specialized medical imaging solutions addressing evolving clinical requirements in women's health diagnostics.
- Sony expanded its medical monitor lineup in July 2025 with two new models measuring 27 inches and 43 inches, joining the previously released 32-inch version. These displays earned VESA Display HDR 1000 certification, becoming the first medical monitors to achieve this designation. The expansion strengthens Sony's surgical display portfolio with enhanced brightness and image detail capabilities.

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Frequently Asked Questions (FAQs):

What are medical display monitors, and why are they important?

Medical display monitors are specialized imaging systems calibrated to DICOM standards for accurate visualization in healthcare settings. They differ from consumer displays through built-in sensors, automated calibration, and superior brightness specifications essential for diagnostic accuracy.

What resolution do medical display monitors require for diagnostic imaging?

Medical display monitor resolution requirements vary by application, ranging from 2MP for clinical review to 8MP and above for mammography. Higher resolutions enable the detection of subtle pathologies like microcalcifications that standard displays cannot reveal.

Which companies are leading medical display monitor manufacturers globally?

Leading medical display monitor companies include Barco, EIZO Corporation, Sony Electronics, LG Electronics, and Advantech. These manufacturers dominate through extensive product portfolios, FDA approvals, and global distribution networks serving healthcare facilities worldwide.

COMPANY PROFILES

1. □ADVANTECH CO LTD
2. □BARCO
3. □CANVYS
4. □DOUBLE BLACK IMAGING
5. □EIZO CORPORATION
6. □HP DEVELOPMENT COMPANY LP
7. □NDS SURGICAL IMAGING
8. □QUEST INTERNATIONAL

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9. □STERIS
10. □STRYKER
11. □UTI TECHNOLOGY INC
12. □LG ELECTRONICS
13. □SONY ELECTRONICS INC
14. □KONINKLIJKE PHILIPS NV
15. □NEC DISPLAY SOLUTIONS (SHARP NEC DISPLAY SOLUTIONS)

Table of Contents:

TABLE OF CONTENTS

1. □RESEARCH SCOPE & METHODOLOGY
 - 1.1. STUDY OBJECTIVES
 - 1.2. METHODOLOGY
 - 1.3. ASSUMPTIONS & LIMITATIONS
2. □EXECUTIVE SUMMARY
 - 2.1. MARKET SIZE & FORECAST
 - 2.2. MARKET OVERVIEW
 - 2.3. SCOPE OF STUDY
 - 2.4. CRISIS SCENARIO ANALYSIS
 - 2.5. MAJOR MARKET FINDINGS
 - 2.5.1. DIAGNOSTIC IMAGING AND SURGICAL SUITES ACCOUNT FOR THE LARGEST SHARE OF MEDICAL DISPLAY MONITOR DEMAND DUE TO HIGH RELIANCE ON IMAGE ACCURACY
 - 2.5.2. HIGH RESOLUTION DISPLAYS INCLUDING 4K AND 8K ARE RAPIDLY REPLACING LEGACY MONITORS IN ADVANCED HEALTHCARE FACILITIES
 - 2.5.3. HOSPITALS REMAIN THE PRIMARY END-USERS, WHILE DIAGNOSTIC CENTERS SHOW FASTER ADOPTION RATES
 - 2.5.4. REGULATORY COMPLIANCE AND MEDICAL GRADE CERTIFICATION STRONGLY INFLUENCE PURCHASING DECISIONS
3. □MARKET DYNAMICS
 - 3.1. KEY DRIVERS
 - 3.1.1. RISING GLOBAL VOLUME OF MEDICAL IMAGING PROCEDURES IS DRIVING DEMAND FOR ACCURATE VISUALIZATION TOOLS
 - 3.1.2. INCREASING INVESTMENT IN DIGITAL HOSPITAL INFRASTRUCTURE IS SUPPORTING MONITOR UPGRADES
 - 3.1.3. GROWTH IN MINIMALLY INVASIVE SURGERIES IS BOOSTING DEMAND FOR HIGH BRIGHTNESS AND LOW LATENCY DISPLAYS
 - 3.1.4. EXPANSION OF TELEMEDICINE AND REMOTE DIAGNOSTICS IS SUPPORTING WIDER DEPLOYMENT OF MEDICAL DISPLAYS
 - 3.2. KEY RESTRAINTS
 - 3.2.1. HIGH INITIAL COST OF MEDICAL GRADE DISPLAY MONITORS LIMITS ADOPTION IN SMALLER HEALTHCARE FACILITIES
 - 3.2.2. STRINGENT REGULATORY AND COMPLIANCE REQUIREMENTS INCREASE PRODUCT DEVELOPMENT TIME
 - 3.2.3. LONG REPLACEMENT CYCLES IN HOSPITALS SLOW OVERALL MARKET TURNOVER
 - 3.2.4. AVAILABILITY OF LOWER-COST CONSUMER DISPLAYS CREATES PRICE PRESSURE IN NON-CRITICAL APPLICATIONS
4. □KEY ANALYTICS
 - 4.1. KEY MARKET TRENDS
 - 4.1.1. SHIFT TOWARD MULTI-MODALITY AND LARGE FORMAT DISPLAYS IN OPERATING ROOMS IS INCREASING
 - 4.1.2. INTEGRATION OF AI ASSISTED IMAGE ENHANCEMENT FEATURES IS GAINING TRACTION
 - 4.1.3. DEMAND FOR ANTI MICROBIAL AND EASY TO CLEAN DISPLAY SURFACES IS RISING
 - 4.1.4. GROWING PREFERENCE FOR ENERGY-EFFICIENT AND LIGHTWEIGHT DISPLAY DESIGNS IS EMERGING
 - 4.2. PORTER'S FIVE FORCES ANALYSIS
 - 4.2.1. BUYERS POWER

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- 4.2.2. SUPPLIERS POWER
- 4.2.3. SUBSTITUTION
- 4.2.4. NEW ENTRANTS
- 4.2.5. INDUSTRY RIVALRY
- 4.3. GROWTH PROSPECT MAPPING
 - 4.3.1. GROWTH PROSPECT MAPPING FOR NORTH AMERICA
 - 4.3.2. GROWTH PROSPECT MAPPING FOR EUROPE
 - 4.3.3. GROWTH PROSPECT MAPPING FOR ASIA-PACIFIC
 - 4.3.4. GROWTH PROSPECT MAPPING FOR REST OF WORLD
- 4.4. MARKET MATURITY ANALYSIS
- 4.5. MARKET CONCENTRATION ANALYSIS
- 4.6. VALUE CHAIN ANALYSIS
 - 4.6.1. RAW MATERIAL SOURCING
 - 4.6.2. DISPLAY PANEL MANUFACTURING
 - 4.6.3. ELECTRONICS INTEGRATION
 - 4.6.4. SOFTWARE CALIBRATION
 - 4.6.5. REGULATORY CERTIFICATION
 - 4.6.6. SYSTEM ASSEMBLY
 - 4.6.7. DISTRIBUTION NETWORKS
 - 4.6.8. END USER DEPLOYMENT
- 4.7. KEY BUYING CRITERIA
 - 4.7.1. IMAGE ACCURACY
 - 4.7.2. REGULATORY COMPLIANCE
 - 4.7.3. DISPLAY RESOLUTION
 - 4.7.4. PRODUCT RELIABILITY
- 4.8. REGULATORY FRAMEWORK
- 5. □MEDICAL DISPLAY MONITORS MARKET BY DISPLAY COLOUR
 - 5.1. GREYSCALE
 - 5.1.1. MARKET FORECAST FIGURE
 - 5.1.2. SEGMENT ANALYSIS
 - 5.2. COLOR
 - 5.2.1. MARKET FORECAST FIGURE
 - 5.2.2. SEGMENT ANALYSIS
- 6. □MEDICAL DISPLAY MONITORS MARKET BY RESOLUTION
 - 6.1. 2.1-4MP
 - 6.1.1. MARKET FORECAST FIGURE
 - 6.1.2. SEGMENT ANALYSIS
 - 6.2. 4.1-8MP
 - 6.2.1. MARKET FORECAST FIGURE
 - 6.2.2. SEGMENT ANALYSIS
 - 6.3. ABOVE 8MP
 - 6.3.1. MARKET FORECAST FIGURE
 - 6.3.2. SEGMENT ANALYSIS
 - 6.4. UP TO 2MP
 - 6.4.1. MARKET FORECAST FIGURE
 - 6.4.2. SEGMENT ANALYSIS
- 7. □MEDICAL DISPLAY MONITORS MARKET BY TECHNOLOGY

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- 7.1. CCFL-BACKLIT LCD DISPLAYS
 - 7.1.1. MARKET FORECAST FIGURE
 - 7.1.2. SEGMENT ANALYSIS
- 7.2. LED-BACKLIT LCD DISPLAYS
 - 7.2.1. MARKET FORECAST FIGURE
 - 7.2.2. SEGMENT ANALYSIS
- 7.3. OLED DISPLAYS
 - 7.3.1. MARKET FORECAST FIGURE
 - 7.3.2. SEGMENT ANALYSIS
- 8. □MEDICAL DISPLAY MONITORS MARKET BY PANEL SIZE
 - 8.1. 23.0-26.9 INCHES
 - 8.1.1. MARKET FORECAST FIGURE
 - 8.1.2. SEGMENT ANALYSIS
 - 8.2. 27.0-41.9 INCHES
 - 8.2.1. MARKET FORECAST FIGURE
 - 8.2.2. SEGMENT ANALYSIS
 - 8.3. 42 INCHES AND ABOVE
 - 8.3.1. MARKET FORECAST FIGURE
 - 8.3.2. SEGMENT ANALYSIS
 - 8.4. UNDER 22.9 INCHES
 - 8.4.1. MARKET FORECAST FIGURE
 - 8.4.2. SEGMENT ANALYSIS
- 9. □MEDICAL DISPLAY MONITORS MARKET BY APPLICATION
 - 9.1. CLINICAL
 - 9.1.1. MARKET FORECAST FIGURE
 - 9.1.2. SEGMENT ANALYSIS
 - 9.2. DENTAL
 - 9.2.1. MARKET FORECAST FIGURE
 - 9.2.2. SEGMENT ANALYSIS
 - 9.3. DIAGNOSTIC
 - 9.3.1. MARKET FORECAST FIGURE
 - 9.3.2. SEGMENT ANALYSIS
 - 9.4. EDUCATION & TRAINING
 - 9.4.1. MARKET FORECAST FIGURE
 - 9.4.2. SEGMENT ANALYSIS
 - 9.5. SURGICAL
 - 9.5.1. MARKET FORECAST FIGURE
 - 9.5.2. SEGMENT ANALYSIS
 - 9.6. TELEMEDICINE
 - 9.6.1. MARKET FORECAST FIGURE
 - 9.6.2. SEGMENT ANALYSIS
- 10. □GEOGRAPHICAL ANALYSIS
 - 10.1. NORTH AMERICA
 - 10.1.1. MARKET SIZE & ESTIMATES
 - 10.1.2. NORTH AMERICA MARKET DRIVERS
 - 10.1.3. NORTH AMERICA MARKET CHALLENGES
 - 10.1.4. KEY PLAYERS IN NORTH AMERICA MEDICAL DISPLAY MONITORS MARKET

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- 10.1.5. COUNTRY ANALYSIS
 - 10.1.5.1. UNITED STATES
 - 10.1.5.1.1. UNITED STATES MARKET SIZE & OPPORTUNITIES
 - 10.1.5.2. CANADA
 - 10.1.5.2.1. CANADA MARKET SIZE & OPPORTUNITIES
- 10.2. EUROPE
 - 10.2.1. MARKET SIZE & ESTIMATES
 - 10.2.2. EUROPE MARKET DRIVERS
 - 10.2.3. EUROPE MEDICAL DISPLAY MONITORS MARKET CHALLENGES
 - 10.2.4. KEY PLAYERS IN EUROPE MEDICAL DISPLAY MONITORS MARKET
 - 10.2.5. COUNTRY ANALYSIS
 - 10.2.5.1. GERMANY
 - 10.2.5.1.1. GERMANY MARKET SIZE & OPPORTUNITIES
 - 10.2.5.2. UNITED KINGDOM
 - 10.2.5.2.1. UNITED KINGDOM MARKET SIZE & OPPORTUNITIES
 - 10.2.5.3. FRANCE
 - 10.2.5.3.1. FRANCE MARKET SIZE & OPPORTUNITIES
 - 10.2.5.4. ITALY
 - 10.2.5.4.1. ITALY MARKET SIZE & OPPORTUNITIES
 - 10.2.5.5. SPAIN
 - 10.2.5.5.1. SPAIN MARKET SIZE & OPPORTUNITIES
 - 10.2.5.6. BELGIUM
 - 10.2.5.6.1. BELGIUM MARKET SIZE & OPPORTUNITIES
 - 10.2.5.7. POLAND
 - 10.2.5.7.1. POLAND MARKET SIZE & OPPORTUNITIES
 - 10.2.5.8. REST OF EUROPE
 - 10.2.5.8.1. REST OF EUROPE MARKET SIZE & OPPORTUNITIES
- 10.3. ASIA-PACIFIC
 - 10.3.1. MARKET SIZE & ESTIMATES
 - 10.3.2. ASIA-PACIFIC MARKET DRIVERS
 - 10.3.3. ASIA-PACIFIC MARKET CHALLENGES
 - 10.3.4. KEY PLAYERS IN ASIA-PACIFIC MEDICAL DISPLAY MONITORS MARKET
 - 10.3.5. COUNTRY ANALYSIS
 - 10.3.5.1. CHINA
 - 10.3.5.1.1. CHINA MARKET SIZE & OPPORTUNITIES
 - 10.3.5.2. INDIA
 - 10.3.5.2.1. INDIA MARKET SIZE & OPPORTUNITIES
 - 10.3.5.3. JAPAN
 - 10.3.5.3.1. JAPAN MARKET SIZE & OPPORTUNITIES
 - 10.3.5.4. AUSTRALIA & NEW ZEALAND
 - 10.3.5.4.1. AUSTRALIA & NEW ZEALAND MARKET SIZE & OPPORTUNITIES
 - 10.3.5.5. SOUTH KOREA
 - 10.3.5.5.1. SOUTH KOREA MARKET SIZE & OPPORTUNITIES
 - 10.3.5.6. THAILAND
 - 10.3.5.6.1. THAILAND MARKET SIZE & OPPORTUNITIES
 - 10.3.5.7. INDONESIA
 - 10.3.5.7.1. INDONESIA MARKET SIZE & OPPORTUNITIES

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- 10.3.5.8. VIETNAM
 - 10.3.5.8.1. VIETNAM MARKET SIZE & OPPORTUNITIES
- 10.3.5.9. REST OF ASIA-PACIFIC
 - 10.3.5.9.1. REST OF ASIA-PACIFIC MARKET SIZE & OPPORTUNITIES
- 10.4. REST OF WORLD
 - 10.4.1. MARKET SIZE & ESTIMATES
 - 10.4.2. REST OF WORLD MARKET DRIVERS
 - 10.4.3. REST OF WORLD MARKET CHALLENGES
 - 10.4.4. KEY PLAYERS IN REST OF WORLD MEDICAL DISPLAY MONITORS MARKET
 - 10.4.5. REGIONAL ANALYSIS
 - 10.4.5.1. LATIN AMERICA
 - 10.4.5.1.1. LATIN AMERICA MARKET SIZE & OPPORTUNITIES
 - 10.4.5.2. MIDDLE EAST & AFRICA
 - 10.4.5.2.1. MIDDLE EAST & AFRICA MARKET SIZE & OPPORTUNITIES
- 11. □COMPETITIVE LANDSCAPE
 - 11.1. KEY STRATEGIC DEVELOPMENTS
 - 11.1.1. MERGERS & ACQUISITIONS
 - 11.1.2. PRODUCT LAUNCHES & DEVELOPMENTS
 - 11.1.3. PARTNERSHIPS & AGREEMENTS
 - 11.1.4. BUSINESS EXPANSIONS & DIVESTITURES
 - 11.2. COMPANY PROFILES
 - 11.2.1. ADVANTECH CO LTD
 - 11.2.1.1. COMPANY OVERVIEW
 - 11.2.1.2. PRODUCTS
 - 11.2.1.3. STRENGTHS & CHALLENGES
 - 11.2.2. BARCO
 - 11.2.2.1. COMPANY OVERVIEW
 - 11.2.2.2. PRODUCTS
 - 11.2.2.3. STRENGTHS & CHALLENGES
 - 11.2.3. CANVYS
 - 11.2.3.1. COMPANY OVERVIEW
 - 11.2.3.2. PRODUCTS
 - 11.2.3.3. STRENGTHS & CHALLENGES
 - 11.2.4. DOUBLE BLACK IMAGING
 - 11.2.4.1. COMPANY OVERVIEW
 - 11.2.4.2. PRODUCTS
 - 11.2.4.3. STRENGTHS & CHALLENGES
 - 11.2.5. EIZO CORPORATION
 - 11.2.5.1. COMPANY OVERVIEW
 - 11.2.5.2. PRODUCTS
 - 11.2.5.3. STRENGTHS & CHALLENGES
 - 11.2.6. HP DEVELOPMENT COMPANY LP
 - 11.2.6.1. COMPANY OVERVIEW
 - 11.2.6.2. PRODUCTS
 - 11.2.6.3. STRENGTHS & CHALLENGES
 - 11.2.7. NDS SURGICAL IMAGING
 - 11.2.7.1. COMPANY OVERVIEW

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- 11.2.7.2. PRODUCTS
- 11.2.7.3. STRENGTHS & CHALLENGES
- 11.2.8. QUEST INTERNATIONAL
 - 11.2.8.1. COMPANY OVERVIEW
 - 11.2.8.2. PRODUCTS
 - 11.2.8.3. STRENGTHS & CHALLENGES
- 11.2.9. STERIS
 - 11.2.9.1. COMPANY OVERVIEW
 - 11.2.9.2. PRODUCTS
 - 11.2.9.3. STRENGTHS & CHALLENGES
- 11.2.10. STRYKER
 - 11.2.10.1. COMPANY OVERVIEW
 - 11.2.10.2. PRODUCTS
 - 11.2.10.3. STRENGTHS & CHALLENGES
- 11.2.11. UTI TECHNOLOGY INC
 - 11.2.11.1. COMPANY OVERVIEW
 - 11.2.11.2. PRODUCTS
 - 11.2.11.3. STRENGTHS & CHALLENGES
- 11.2.12. LG ELECTRONICS
 - 11.2.12.1. COMPANY OVERVIEW
 - 11.2.12.2. PRODUCTS
 - 11.2.12.3. STRENGTHS & CHALLENGES
- 11.2.13. SONY ELECTRONICS INC
 - 11.2.13.1. COMPANY OVERVIEW
 - 11.2.13.2. PRODUCTS
 - 11.2.13.3. STRENGTHS & CHALLENGES
- 11.2.14. KONINKLIJKE PHILIPS NV
 - 11.2.14.1. COMPANY OVERVIEW
 - 11.2.14.2. PRODUCTS
 - 11.2.14.3. STRENGTHS & CHALLENGES
- 11.2.15. NEC DISPLAY SOLUTIONS (SHARP NEC DISPLAY SOLUTIONS)
 - 11.2.15.1. COMPANY OVERVIEW
 - 11.2.15.2. PRODUCTS
 - 11.2.15.3. STRENGTHS & CHALLENGES

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LIST OF TABLES

TABLE 1: MARKET SNAPSHOT - MEDICAL DISPLAY MONITORS

TABLE 2: MARKET BY DISPLAY COLOUR, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 3: MARKET BY DISPLAY COLOUR, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 4: GREYSCALE MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 5: GREYSCALE MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 6: COLOR MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 7: COLOR MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 8: MARKET BY RESOLUTION, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 9: MARKET BY RESOLUTION, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 10: UP TO 2MP MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 11: UP TO 2MP MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 12: 2.1-4MP MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 13: 2.1-4MP MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 14: 4.1-8MP MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 15: 4.1-8MP MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 16: ABOVE 8MP MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 17: ABOVE 8MP MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 18: MARKET BY TECHNOLOGY, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 19: MARKET BY TECHNOLOGY, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 20: CCFL-BACKLIT LCD DISPLAYS MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 21: CCFL-BACKLIT LCD DISPLAYS MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 22: LED-BACKLIT LCD DISPLAYS MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 23: LED-BACKLIT LCD DISPLAYS MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 24: OLED DISPLAYS MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 25: OLED DISPLAYS MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 26: MARKET BY PANEL SIZE, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 27: MARKET BY PANEL SIZE, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 28: UNDER 22.9 INCHES MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 29: UNDER 22.9 INCHES MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 30: 23.0-26.9 INCHES MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

TABLE 31: 23.0-26.9 INCHES MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)

TABLE 32: 27.0-41.9 INCHES MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)

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TABLE 33: 27.0-41.9 INCHES MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 34: 42 INCHES AND ABOVE MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 35: 42 INCHES AND ABOVE MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 36: MARKET BY APPLICATION, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 37: MARKET BY APPLICATION, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 38: CLINICAL MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 39: CLINICAL MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 40: DENTAL MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 41: DENTAL MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 42: DIAGNOSTIC MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 43: DIAGNOSTIC MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 44: EDUCATION & TRAINING MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 45: EDUCATION & TRAINING MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 46: SURGICAL MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 47: SURGICAL MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 48: TELEMEDICINE MARKET, BY REGION, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 49: TELEMEDICINE MARKET, BY REGION, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 50: MARKET BY GEOGRAPHICAL ANALYSIS, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 51: MARKET BY GEOGRAPHICAL ANALYSIS, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 52: NORTH AMERICA MARKET, COUNTRY ANALYSIS, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 53: NORTH AMERICA MARKET, COUNTRY ANALYSIS, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 54: KEY PLAYERS OPERATING IN THE NORTH AMERICAN MARKET
TABLE 55: EUROPE MARKET, COUNTRY ANALYSIS, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 56: EUROPE MARKET, COUNTRY ANALYSIS, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 57: KEY PLAYERS OPERATING IN THE EUROPEAN MARKET
TABLE 58: ASIA-PACIFIC MARKET, COUNTRY ANALYSIS, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 59: ASIA-PACIFIC MARKET, COUNTRY ANALYSIS, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 60: KEY PLAYERS OPERATING IN THE ASIA-PACIFIC MARKET
TABLE 61: REST OF WORLD MARKET, REGIONAL ANALYSIS, HISTORICAL YEARS, 2022-2024 (IN \$ MILLION)
TABLE 62: REST OF WORLD MARKET, REGIONAL ANALYSIS, FORECAST YEARS, 2026-2034 (IN \$ MILLION)
TABLE 63: KEY PLAYERS OPERATING IN THE REST OF WORLD MARKET
TABLE 64: LIST OF MERGERS & ACQUISITIONS
TABLE 65: LIST OF PRODUCT LAUNCHES & DEVELOPMENTS
TABLE 66: LIST OF PARTNERSHIPS & AGREEMENTS
TABLE 67: LIST OF BUSINESS EXPANSIONS & DIVESTITURES
LIST OF FIGURES
FIGURE 1: KEY MARKET TRENDS
FIGURE 2: PORTER'S FIVE FORCES ANALYSIS
FIGURE 3: GROWTH PROSPECT MAPPING FOR NORTH AMERICA
FIGURE 4: GROWTH PROSPECT MAPPING FOR EUROPE
FIGURE 5: GROWTH PROSPECT MAPPING FOR ASIA-PACIFIC
FIGURE 6: GROWTH PROSPECT MAPPING FOR REST OF WORLD
FIGURE 7: MARKET MATURITY ANALYSIS
FIGURE 8: MARKET CONCENTRATION ANALYSIS
FIGURE 9: VALUE CHAIN ANALYSIS
FIGURE 10: KEY BUYING CRITERIA
FIGURE 11: SEGMENT GROWTH POTENTIAL, BY DISPLAY COLOUR, IN 2025

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FIGURE 12: GREYSCALE MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 13: COLOR MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 14: SEGMENT GROWTH POTENTIAL, BY RESOLUTION, IN 2025
FIGURE 15: UP TO 2MP MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 16: 2.1-4MP MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 17: 4.1-8MP MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 18: ABOVE 8MP MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 19: SEGMENT GROWTH POTENTIAL, BY TECHNOLOGY, IN 2025
FIGURE 20: CCFL-BACKLIT LCD DISPLAYS MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 21: LED-BACKLIT LCD DISPLAYS MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 22: OLED DISPLAYS MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 23: SEGMENT GROWTH POTENTIAL, BY PANEL SIZE, IN 2025
FIGURE 24: UNDER 22.9 INCHES MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 25: 23.0-26.9 INCHES MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 26: 27.0-41.9 INCHES MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 27: 42 INCHES AND ABOVE MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 28: SEGMENT GROWTH POTENTIAL, BY APPLICATION, IN 2025
FIGURE 29: CLINICAL MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 30: DENTAL MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 31: DIAGNOSTIC MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 32: EDUCATION & TRAINING MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 33: SURGICAL MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 34: TELEMEDICINE MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 35: NORTH AMERICA MEDICAL DISPLAY MONITORS MARKET, COUNTRY OUTLOOK, 2025 & 2034 (IN %)
FIGURE 36: UNITED STATES MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 37: CANADA MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 38: EUROPE MEDICAL DISPLAY MONITORS MARKET, COUNTRY OUTLOOK, 2025 & 2034 (IN %)
FIGURE 39: GERMANY MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 40: UNITED KINGDOM MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 41: FRANCE MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 42: ITALY MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 43: SPAIN MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 44: BELGIUM MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 45: POLAND MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 46: REST OF EUROPE MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 47: ASIA-PACIFIC MEDICAL DISPLAY MONITORS MARKET, COUNTRY OUTLOOK, 2025 & 2034 (IN %)
FIGURE 48: CHINA MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 49: INDIA MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 50: JAPAN MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 51: AUSTRALIA & NEW ZEALAND MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 52: SOUTH KOREA MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 53: THAILAND MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 54: INDONESIA MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 55: VIETNAM MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 56: REST OF ASIA-PACIFIC MARKET SIZE, 2026-2034 (IN \$ MILLION)
FIGURE 57: REST OF WORLD MEDICAL DISPLAY MONITORS MARKET, REGIONAL OUTLOOK, 2025 & 2034 (IN %)
FIGURE 58: LATIN AMERICA MARKET SIZE, 2026-2034 (IN \$ MILLION)

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FIGURE 59: MIDDLE EAST & AFRICA MARKET SIZE, 2026-2034 (IN \$ MILLION)

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