

Digital Holography Market by Offering (Hardware and Software), Application (Microscopy, Holographic Display, Holographic Telepresence), Vertical (Commercial, Medical, Automotive), Technique, Process, Region - Global Forecast to 2024

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Abstracts

“Rising demand for digital holography systems in commercial and medical applications to drive overall growth of digital holography market”

The digital holography market is projected to reach USD 5.4 billion by 2024 from USD 2.2 billion in 2019; growing at a CAGR of 19.8%. The growth of the digital holography market is driven by factors such as rising demand for digital holography in medical and commercial applications; and increasing use of digital holography microscopy for precise measurements. Moreover, the growing adoption of digital holography in the financial sector for security purposes is expected to drive the digital holography market. On the other hand, factors such as the high cost of digital holographic systems, and computational complexities in the acquisition and reconstruction of holograms are barriers inhibiting the growth of this market.

“Hardware segment to hold largest share of digital holography market during forecast period”

The digital holography technique requires several hardware components, including lasers, CMOS/CCD cameras, spatial filters, mirrors, beam splitters, and others. In recent years, there have been rapid improvements in electronic devices such as image sensors, spatial light modulators (SLM), and computers. An SLM with high-pixel density enables the formation of a natural, colorful, and high-quality 3D motion-picture image on a holographic display without the requirement for lenses. These hardware components

help to capture the specimen. The initial cost required for these hardware components is quite high.

“Digital holographic displays to lead the market, in terms of size, by 2024 “

Holographic display technology has the ability to provide all four-eye mechanisms: binocular disparity, motion parallax, accommodation, and convergence. 3D objects can be viewed without wearing any special glasses and no visual fatigue is caused to human eyes.

3D imagery has attracted people for a long time and it is the next major thing in the advertisement sector. These displays help in enhancing the customer experience. Holographic displays in the commercial vertical are expected to be in high demand in the coming years. The growing adoption of 3D holographic display solutions in the retail vertical for advertisements and marketing is propelling the growth of the digital holographic display market.

“North America to hold largest size of digital holography market during forecast period”

The leading position of North America, in terms of size, can be attributed to the high demand for digital holography systems in this region due to the presence of a large number of life science & biomedical research and testing centers. Moreover, there is an escalated demand for holographic displays in commercial applications, which is further propelling the market in the region. The region is also one of the early adopters of the technology, and the demand is mainly derived from the growing adoption of digital holographic systems for commercial applications in the US.

In-depth interviews were conducted with chief executive officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the digital holography ecosystem.

Breakdown of primary participants' profile:

By Company Type: Tier 1 = 30%, Tier 2 = 45%, and Tier 3 = 25%

By Designation: C-Level Executives = 25%, Directors = 40%, and Others = 35%

By Region: North America = 35%, Europe = 30%, APAC = 25%, and RoW = 10%

Lyncee Tec (Switzerland), Holoxica Limited (UK), RealView Imaging (Israel), HoloTech Switzerland AG (Switzerland), EON Reality (US), Geola Technologies (Lithuania), Holmarc Opto-Mechatronics (India), Ovizio Imaging Systems (Belgium), Leia (US), and Phase Holographic Imaging (Sweden) are a few of the leading players in this market. The other players operating in the digital holography market include MetroLaser (US), MDH Hologram (UK), Realfiction (Sweden), Intelligent Imaging Innovations (US), Holotronica (UK), Light Logics Holography and Optics (India) Digitos Technologies (India), and Trimos (Switzerland). Whereas, Jasper Display Corp. (Taiwan), HOLOEYE Photonics (Germany), MIT Media Lab (US), and Fraunhofer IMP (Germany), are key innovators operating in this space.

Research Coverage:

Offering, application, vertical, and geography are the segments covered in this report. It also gives a detailed view of the market across 4 main regions: North America, Europe, APAC, and RoW.

Reasons to Buy the Report:

This report includes statistics pertaining to the digital holography market in terms of offering, application, vertical, and geography along with their respective market sizes.

Major drivers, restraints, opportunities, and challenges for the digital holography market have been provided in detail in this report.

The report includes illustrative segmentation, analysis, and forecast for the digital holography market based on its segments and subsegments.

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION & SCOPE
 - 1.2.1 INCLUSIONS AND EXCLUSIONS
- 1.3 STUDY SCOPE
 - 1.3.1 MARKETS COVERED
 - 1.3.2 YEARS CONSIDERED
- 1.4 CURRENCY
- 1.5 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Breakdown of primaries
 - 2.1.2.2 Key data from primary sources
 - 2.1.2.3 Key industry insights
 - 2.1.3 SECONDARY AND PRIMARY RESEARCH
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.1.1 Approach for capturing market size by bottom-up analysis
 - 2.2.2 TOP-DOWN APPROACH
 - 2.2.2.1 Approach for capturing market size by top-down analysis
- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES FOR GROWTH OF DIGITAL HOLOGRAPHY MARKET
- 4.2 GLOBAL DIGITAL HOLOGRAPHY MARKET, BY OFFERING
- 4.3 GLOBAL DIGITAL HOLOGRAPHY MARKET, BY APPLICATION

4.4 GLOBAL DIGITAL HOLOGRAPHY MARKET, BY VERTICAL

4.5 GLOBAL DIGITAL HOLOGRAPHY MARKET, BY GEOGRAPHY

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Rising demand for digital holography in medical and commercial applications

5.2.1.2 Growing adoption of digital holography in financial sector for security purposes

5.2.1.3 Increasing use of digital holography microscopy for precise measurements

5.2.2 RESTRAINTS

5.2.2.1 High cost of digital holographic products

5.2.3 OPPORTUNITIES

5.2.3.1 Potential demand for holographic displays for near to eye applications

5.2.3.2 Latent opportunities for digital holographic solutions from countries in APAC particularly, China, Japan, and South Korea

5.2.4 CHALLENGES

5.2.4.1 Computational complexities in acquisition and reconstruction of holograms

5.2.4.2 Lack of technological awareness in market

6 INDUSTRY ANALYSIS

6.1 INTRODUCTION

6.2 VALUE CHAIN ANALYSIS

6.2.1 RESEARCH AND DEVELOPMENT

6.2.2 COMPONENT MANUFACTURING

6.2.3 ASSEMBLY AND PRODUCT INTEGRATION

6.2.4 DISTRIBUTION

6.2.5 END USERS

6.3 STRATEGIC PARTNERSHIPS/COLLABORATIONS

6.4 ADJACENT/CONNECTED MARKETS

6.4.1 INTRODUCTION

6.4.2 MICRODISPLAY

7 DIGITAL HOLOGRAPHY MARKET, BY PROCESS TYPE

7.1 INTRODUCTION

7.2 DIGITAL RECORDING

7.2.1 OWING TO AVAILABILITY OF CCDS WITH SUITABLE PIXELS AND HIGH-SPEED COMPUTERS, RECORDING OF DIGITAL HOLOGRAMS HAS BECOME MORE FEASIBLE

7.3 RECONSTRUCTION

7.3.1 IN RECONSTRUCTION, HOLOGRAM IS ILLUMINATED BY LASER BEAM

8 DIGITAL HOLOGRAPHY TECHNIQUES

8.1 OVERVIEW

8.2 OFF-AXIS HOLOGRAPHY

8.2.1 IN OFF-AXIS TECHNIQUE, REFERENCE BEAM AND OBJECT BEAM COME FROM DIFFERENT DIRECTIONS

8.3 IN-LINE (GABOR) HOLOGRAPHY

8.3.1 IN-LINE HOLOGRAPHY IS PROCESS OF RECORDING A HOLOGRAM BY ILLUMINATING A PHOTOGRAPHIC PLATE WITH TWO IN-LINE WAVES

8.4 OTHERS

9 DIGITAL HOLOGRAPHY MARKET, BY OFFERING

9.1 INTRODUCTION

9.2 HARDWARE

9.2.1 LASER

9.2.1.1 Laser holographic techniques can be used to detect small deformations of three-dimensional objects

9.2.2 BEAM SPLITTER

9.2.2.1 Beam splitters divide laser light into two separate beams

9.2.3 CCD/CMOS CAMERA

9.2.3.1 CCD image sensors are used in this camera to obtain high-quality images

9.2.4 OTHER COMPONENTS

9.3 SOFTWARE

9.3.1 INCREASING DEMAND FOR DATA ANALYTICS AND AUTOMATION TO DRIVE MARKET FOR SOFTWARE OFFERING

10 DIGITAL HOLOGRAPHY MARKET, BY APPLICATION

10.1 INTRODUCTION

10.2 DIGITAL HOLOGRAPHIC MICROSCOPY

10.2.1 INCREASING ADOPTION & UTILITY OF 3D MEDICAL AND SURGICAL IMAGING PLATFORMS TO CREATE OPPORTUNITIES FOR DHM VENDORS

10.3 DIGITAL HOLOGRAPHIC DISPLAYS

10.3.1 INCREASING ADOPTION OF DIGITAL HOLOGRAPHIC DISPLAYS BY COMMERCIAL VERTICAL TO DRIVE SAID MARKET

10.4 HOLOGRAPHIC TELEPRESENCE

10.4.1 ADVENT OF 5G TO CREATE OPPORTUNITIES FOR HOLOGRAPHIC TELEPRESENCE

11 DIGITAL HOLOGRAPHY MARKET, BY VERTICAL

11.1 INTRODUCTION

11.2 MEDICAL

11.2.1 INCREASING DEMAND OF DHM FOR BIOMEDICAL/CLINICAL/ MEDICAL APPLICATIONS TO DRIVE DIGITAL HOLOGRAPHY MARKET

11.3 COMMERCIAL

11.3.1 GROWING ADOPTION OF DIGITAL HOLOGRAPHIC DISPLAYS IN COMMERCIAL VERTICAL TO PROPEL SAID MARKET DURING FORECAST PERIOD

11.4 AEROSPACE & DEFENSE

11.4.1 RISING GOVERNMENT FUNDING TO DRIVE DIGITAL HOLOGRAPHY MARKET FOR AEROSPACE & DEFENSE VERTICAL

11.5 AUTOMOTIVE

11.5.1 ACCELERATING DEMAND FOR MEASURING VIBRATORY AND STATIC DEFORMATIONS TO PROPEL SAID MARKET GROWTH

11.6 CONSUMER

11.6.1 NORTH AMERICA TO HOLD THE LARGEST SIZE OF MARKET FOR CONSUMER VERTICAL

11.7 OTHERS

12 GEOGRAPHIC ANALYSIS

12.1 INTRODUCTION

12.2 NORTH AMERICA

12.2.1 US

12.2.1.1 Growing commercial spaces coupled with escalated demand for holographic

displays to propel said market

12.2.2 REST OF NORTH AMERICA

12.2.2.1 Increasing demand for digital holography systems in commercial and medical verticals to propel DH market in region

12.3 EUROPE

12.3.1 UK

12.3.1.1 Strong government support and presence of major digital holography system vendors to boost market growth

12.3.2 GERMANY

12.3.2.1 Established automotive and medical sectors to create opportunities for digital holography system vendors in Germany

12.3.3 FRANCE

12.3.3.1 Rising adoption of DHM for industrial inspection and measurement to drive market in France

12.3.4 ITALY

12.3.4.1 Growing adoption of digital holography in commercial vertical to drive Italian DH market

12.3.5 REST OF EUROPE

12.3.5.1 Commercial, medical, and industrial verticals are key contributors of DH market in Rest of Europe

12.4 APAC

12.4.1 CHINA

12.4.1.1 Digital holographic microscopy to exhibit high growth in China

12.4.2 JAPAN

12.4.2.1 DH market in Japan to be driven by increasing adoption of digital holography in automotive and medical verticals

12.4.3 SOUTH KOREA

12.4.3.1 Surge in demand for holographic displays from retail sector to boost South Korean market

12.4.4 INDIA

12.4.4.1 High demand for holographic displays to be witnessed in India during forecast period

12.4.5 REST OF APAC

12.4.5.1 Market in region to be propelled by increasing commercial space coupled with increasing spending on improving medical imaging

12.5 ROW

12.5.1 SOUTH AMERICA

12.5.1.1 Emerging economies such as Brazil, Chile, and Argentina are among key contributors in South American market

12.5.2 MIDDLE EAST & AFRICA

12.5.2.1 Market in Middle East & Africa is driven by rising demand for digital holography systems in medical, commercial, and oil & gas applications

13 COMPETITIVE LANDSCAPE

13.1 OVERVIEW

13.2 DIGITAL HOLOGRAPHY MARKET: MARKET RANKING ANALYSIS 2019

13.3 COMPETITIVE SITUATIONS AND TRENDS

13.3.1 PRODUCT DEVELOPMENTS & LAUNCHES, AND EXPANSIONS

13.3.2 AGREEMENTS, PARTNERSHIPS, COLLABORATIONS, & CONTRACTS

13.3.3 ACQUISITIONS

13.4 COMPETITIVE LEADERSHIP MAPPING

13.4.1 VISIONARY LEADERS

13.4.2 INNOVATORS

13.4.3 DYNAMIC DIFFERENTIATORS

13.4.4 EMERGING COMPANIES

14 COMPANY PROFILES

14.1 INTRODUCTION

14.2 KEY PLAYERS

(Business Overview, Products Offered, Recent Developments, SWOT Analysis, and MnM View)*

14.2.1 LYNCEE TEC SA

14.2.2 HOLOXICA LIMITED

14.2.3 REALVIEW IMAGING

14.2.4 EON REALITY

14.2.5 PHASE HOLOGRAPHIC IMAGING AB (PHI)

14.2.6 HOLOTECH SWITZERLAND AG (ZEBRA IMAGING)

14.2.7 HOLMARC OPTO-MECHATRONICS

14.2.8 GEOLA DIGITAL UAB

14.2.9 OVIZIO IMAGING SYSTEMS

14.2.10 LEIA INC

* Business Overview, Products Offered, Recent Developments, SWOT Analysis, and MnM View might not be captured in case of unlisted companies.

14.3 OTHER KEY PLAYERS

14.3.1 REALFICTION

14.3.2 INTELLIGENT IMAGING INNOVATIONS (3I)

14.3.3 METROLASER

14.3.4 MDH HOLOGRAM

14.3.5 HOLOTRONICA

14.3.6 LIGHT LOGICS HOLOGRAPHY AND OPTICS

14.3.7 DIGITOS TECHNOLOGIES

14.3.8 TRIMOS

14.4 KEY INNOVATORS

14.4.1 JASPER DISPLAY CORP. (JDC)

14.4.2 HOLOEYE PHOTONICS

14.4.3 MIT MEDIA LAB (MASSACHUSETTS INSTITUTE OF TECHNOLOGY)

14.4.4 FRAUNHOFER IPM

15 APPENDIX

15.1 DISCUSSION GUIDE

15.2 KNOWLEDGE STORE: MARKETSSANDMARKETS' SUBSCRIPTION PORTAL

15.3 AVAILABLE CUSTOMIZATIONS

15.4 RELATED REPORTS

15.5 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

- TABLE 1 ADVANTAGES OF HOLOGRAPHIC DISPLAYS OVER BINOCULAR VISION DISPLAYS AND LIGHT-FIELD DISPLAYS
- TABLE 2 USE-CASES OF VR IN CONSUMER APPLICATION
- TABLE 3 USE-CASES OF AUGMENTED REALITY IN ENTERPRISE APPLICATION
- TABLE 4 LIST OF COMPANIES WITH SCIENTIFIC PARTNERS
- TABLE 5 COMPARISON OF MICRODISPLAYS
- TABLE 6 GLOBAL MICRODISPLAY MARKET, 2016–2024 (MILLION UNITS)
- TABLE 7 MICRODISPLAY MARKET, BY TECHNOLOGY, 2016–2024 (USD MILLION)
- TABLE 8 LCD MICRODISPLAY MARKET, BY REGION, 2016–2024 (USD MILLION)
- TABLE 9 LCOS MICRODISPLAY MARKET, BY REGION, 2016–2024 (USD MILLION)
- TABLE 10 OLED MICRODISPLAY MARKET, BY REGION, 2016–2024 (USD MILLION)
- TABLE 11 DLP MICRODISPLAY MARKET, BY REGION, 2016–2024 (USD MILLION)
- TABLE 12 MICRODISPLAY MARKET, BY INDUSTRY, 2016–2024 (USD MILLION)
- TABLE 13 MICRODISPLAY MARKET FOR CONSUMER INDUSTRY, BY PRODUCT TYPE, 2016–2024 (USD MILLION)
- TABLE 14 MICRODISPLAY MARKET FOR INDUSTRIAL AND ENTERPRISE INDUSTRY, BY PRODUCT, 2016–2024 (USD MILLION)
- TABLE 15 MICRODISPLAY MARKET FOR AUTOMOTIVE INDUSTRY, BY PRODUCT, 2016–2024 (USD MILLION)
- TABLE 16 MICRODISPLAY MARKET FOR MILITARY, DEFENSE, AND AEROSPACE INDUSTRY, BY PRODUCT, 2016–2024 (USD MILLION)
- TABLE 17 MICRODISPLAY MARKET FOR SPORTS AND ENTERTAINMENT INDUSTRY, BY PRODUCT, 2016–2024 (USD MILLION)
- TABLE 18 MICRODISPLAY MARKET FOR RETAIL AND HOSPITALITY INDUSTRY, BY PRODUCT, 2016–2024 (USD MILLION)
- TABLE 19 MICRODISPLAY MARKET FOR MEDICAL INDUSTRY, BY PRODUCT, 2016–2024 (USD MILLION)
- TABLE 20 MICRODISPLAY MARKET FOR EDUCATION INDUSTRY, BY PRODUCT, 2016–2024 (USD MILLION)
- TABLE 21 MICRODISPLAY MARKET FOR OTHER INDUSTRIES, BY PRODUCT, 2016–2024 (USD MILLION)
- TABLE 22 MICRODISPLAY MARKET, BY REGION, 2016–2024 (USD MILLION)
- TABLE 23 MICRODISPLAY MARKET IN APAC, BY COUNTRY, 2015–2024 (USD MILLION)
- TABLE 24 MICRODISPLAY MARKET IN NORTH AMERICA, BY COUNTRY (USD

MILLION)

TABLE 25 MICRODISPLAY MARKET IN EUROPE, BY COUNTRY (USD MILLION)

TABLE 26 MICRODISPLAY MARKET IN ROW, BY REGION (USD MILLION)

TABLE 27 CATEGORIES OF HOLOGRAPHY

TABLE 28 GENERAL PROPERTIES OF RECORDING MATERIALS USED IN HOLOGRAPHY

TABLE 29 DIGITAL HOLOGRAPHY MARKET, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 30 DIGITAL HOLOGRAPHY MARKET FOR HARDWARE, BY REGION, 2016–2024 (USD MILLION)

TABLE 31 LASER TECHNOLOGY MARKET, BY LASER TYPE, 2015–2024 (USD BILLION)

TABLE 32 COMPARISON BETWEEN CCD AND CMOS CAMERAS FOR DIGITAL HOLOGRAPHIC MICROSCOPY APPLICATIONS

TABLE 33 DIGITAL HOLOGRAPHY MARKET FOR SOFTWARE, BY REGION, 2016–2024 (USD MILLION)

TABLE 34 DIGITAL HOLOGRAPHY MARKET, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 35 DIGITAL HOLOGRAPHIC MICROSCOPY MARKET, BY REGION, 2016–2024 (USD MILLION)

TABLE 36 DIGITAL HOLOGRAPHIC DISPLAY MARKET, BY REGION, 2016–2024 (USD MILLION)

TABLE 37 DIGITAL HOLOGRAPHIC TELEPRESENCE MARKET, BY REGION, 2016–2024 (USD MILLION)

TABLE 38 DIGITAL HOLOGRAPHY MARKET, BY VERTICAL, 2016–2024 (USD MILLION)

TABLE 39 DIGITAL HOLOGRAPHY MARKET FOR MEDICAL VERTICAL, BY REGION, 2016–2024 (USD MILLION)

TABLE 40 DIGITAL HOLOGRAPHY MARKET FOR COMMERCIAL VERTICAL, BY REGION, 2016–2024 (USD MILLION)

TABLE 41 DIGITAL HOLOGRAPHY MARKET FOR AEROSPACE & DEFENSE, BY REGION, 2016–2024 (USD MILLION)

TABLE 42 DIGITAL HOLOGRAPHY MARKET FOR AUTOMOTIVE, BY REGION, 2016–2024 (USD MILLION)

TABLE 43 DIGITAL HOLOGRAPHY MARKET FOR CONSUMER VERTICAL, BY REGION, 2016–2024 (USD MILLION)

TABLE 44 DIGITAL HOLOGRAPHY MARKET FOR OTHER VERTICALS, BY REGION, 2016–2024 (USD MILLION)

TABLE 45 DIGITAL HOLOGRAPHY MARKET, BY REGION, 2016–2024 (USD

MILLION)

TABLE 46 DIGITAL HOLOGRAPHY MARKET IN NORTH AMERICA, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 47 DIGITAL HOLOGRAPHY MARKET IN NORTH AMERICA, BY VERTICAL, 2016–2024 (USD MILLION)

TABLE 48 DIGITAL HOLOGRAPHY MARKET IN NORTH AMERICA, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 49 NORTH AMERICAN DIGITAL HOLOGRAPHY MARKET FOR DIGITAL HOLOGRAPHIC DISPLAY, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 50 NORTH AMERICAN DIGITAL HOLOGRAPHIC MICROSCOPY MARKET, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 51 NORTH AMERICAN DIGITAL HOLOGRAPHIC TELEPRESENCE MARKET, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 52 DIGITAL HOLOGRAPHY MARKET IN NORTH AMERICA, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 53 DIGITAL HOLOGRAPHY MARKET IN US, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 54 DIGITAL HOLOGRAPHY MARKET IN US, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 55 DIGITAL HOLOGRAPHY MARKET IN REST OF NORTH AMERICA, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 56 DIGITAL HOLOGRAPHY MARKET IN REST OF NORTH AMERICA, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 57 DIGITAL HOLOGRAPHY MARKET IN EUROPE, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 58 DIGITAL HOLOGRAPHY MARKET IN EUROPE, BY VERTICAL, 2016–2024 (USD MILLION)

TABLE 59 DIGITAL HOLOGRAPHY MARKET IN EUROPE, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 60 EUROPEAN DIGITAL HOLOGRAPHY MARKET FOR DIGITAL HOLOGRAPHIC DISPLAY, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 61 EUROPEAN DIGITAL HOLOGRAPHY MARKET FOR DIGITAL HOLOGRAPHIC MICROSCOPY, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 62 EUROPEAN DIGITAL HOLOGRAPHY MARKET FOR HOLOGRAPHIC TELEPRESENCE, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 63 DIGITAL HOLOGRAPHY MARKET IN EUROPE, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 64 DIGITAL HOLOGRAPHY MARKET IN UK, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 65 DIGITAL HOLOGRAPHY MARKET IN UK, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 66 DIGITAL HOLOGRAPHY MARKET IN GERMANY, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 67 DIGITAL HOLOGRAPHY MARKET IN GERMANY, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 68 DIGITAL HOLOGRAPHY MARKET IN FRANCE, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 69 DIGITAL HOLOGRAPHY MARKET IN FRANCE, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 70 DIGITAL HOLOGRAPHY MARKET IN ITALY, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 71 DIGITAL HOLOGRAPHY MARKET IN ITALY, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 72 DIGITAL HOLOGRAPHY MARKET IN REST OF EUROPE, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 73 DIGITAL HOLOGRAPHY MARKET IN REST OF EUROPE, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 74 DIGITAL HOLOGRAPHY MARKET IN APAC, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 75 DIGITAL HOLOGRAPHY MARKET IN APAC, BY VERTICAL, 2016–2024 (USD MILLION)

TABLE 76 DIGITAL HOLOGRAPHY MARKET IN APAC, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 77 DIGITAL HOLOGRAPHY MARKET IN APAC FOR DIGITAL HOLOGRAPHIC DISPLAY, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 78 DIGITAL HOLOGRAPHY MARKET IN APAC FOR DIGITAL HOLOGRAPHIC MICROSCOPY, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 79 DIGITAL HOLOGRAPHY MARKET IN APAC FOR HOLOGRAPHIC TELEPRESENCE, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 80 DIGITAL HOLOGRAPHY MARKET IN APAC, BY COUNTRY, 2016–2024 (USD MILLION)

TABLE 81 DIGITAL HOLOGRAPHY MARKET IN CHINA, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 82 DIGITAL HOLOGRAPHY MARKET IN CHINA, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 83 DIGITAL HOLOGRAPHY MARKET IN JAPAN, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 84 DIGITAL HOLOGRAPHY MARKET IN JAPAN, BY APPLICATION,

2016—2024 (USD MILLION)

TABLE 85 DIGITAL HOLOGRAPHY MARKET IN SOUTH KOREA, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 86 DIGITAL HOLOGRAPHY MARKET IN SOUTH KOREA, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 87 DIGITAL HOLOGRAPHY MARKET IN INDIA, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 88 DIGITAL HOLOGRAPHY MARKET IN INDIA, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 89 DIGITAL HOLOGRAPHY MARKET IN REST OF APAC, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 90 DIGITAL HOLOGRAPHY MARKET IN REST OF APAC, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 91 DIGITAL HOLOGRAPHY MARKET IN ROW, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 92 DIGITAL HOLOGRAPHY MARKET IN ROW, BY VERTICAL, 2016–2024 (USD MILLION)

TABLE 93 DIGITAL HOLOGRAPHY MARKET IN ROW, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 94 DIGITAL HOLOGRAPHY MARKET FOR DIGITAL HOLOGRAPHIC DISPLAY IN ROW, BY REGION, 2016–2024 (USD MILLION)

TABLE 95 DIGITAL HOLOGRAPHY MARKET FOR DIGITAL HOLOGRAPHIC MICROSCOPY IN ROW, BY REGION, 2016–2024 (USD MILLION)

TABLE 96 DIGITAL HOLOGRAPHY MARKET FOR HOLOGRAPHIC TELEPRESENCE IN ROW, BY REGION, 2016–2024 (USD MILLION)

TABLE 97 DIGITAL HOLOGRAPHY MARKET IN ROW, BY REGION, 2016–2024 (USD MILLION)

TABLE 98 DIGITAL HOLOGRAPHY MARKET IN SOUTH AMERICA, BY OFFERING, 2016–2024 (USD MILLION)

TABLE 99 DIGITAL HOLOGRAPHY MARKET IN SOUTH AMERICA, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 100 DIGITAL HOLOGRAPHY MARKET IN MIDDLE EAST & AFRICA, BY APPLICATION, 2016–2024 (USD MILLION)

TABLE 101 DIGITAL HOLOGRAPHY MARKET IN MIDDLE EAST AND AFRICA, BY OFFERING, 2016–2024 (USD MILLION)

List Of Figures

LIST OF FIGURES

FIGURE 1 DIGITAL HOLOGRAPHY MARKET SEGMENTATION

FIGURE 2 DIGITAL HOLOGRAPHY MARKET: PROCESS FLOW OF MARKET SIZE ESTIMATION

FIGURE 3 DIGITAL HOLOGRAPHY MARKET: RESEARCH DESIGN

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1 (SUPPLY SIDE): REVENUE GENERATED BY COMPANIES FROM SOLUTIONS/PRODUCTS/SERVICES OFFERED IN DIGITAL HOLOGRAPHY MARKET

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2 (DEMAND SIDE): ADOPTION LEVEL OF DIGITAL HOLOGRAPHY SOLUTIONS, BY VERTICAL

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 8 DATA TRIANGULATION

FIGURE 9 GLOBAL DIGITAL HOLOGRAPHY MARKET 2016–2024 (USD BILLION)

FIGURE 10 SOFTWARE TO REGISTER HIGHER CAGR DURING FORECAST PERIOD

FIGURE 11 DIGITAL HOLOGRAPHIC DISPLAY TO HOLD LARGEST SIZE OF DIGITAL HOLOGRAPHY MARKET DURING FORECAST PERIOD

FIGURE 12 COMMERCIAL VERTICAL TO HOLD LARGEST SIZE OF MARKET DURING FORECAST PERIOD

FIGURE 13 APAC TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 14 DIGITAL HOLOGRAPHY MARKET EXPECTED TO EXHIBIT HIGH GROWTH

FROM 2019 TO 2024

FIGURE 15 HARDWARE OFFERING TO HOLD LARGER SIZE OF DIGITAL HOLOGRAPHY MARKET IN 2024

FIGURE 16 DIGITAL HOLOGRAPHIC DISPLAY TO ACCOUNT FOR LARGEST SHARE BY 2024

FIGURE 17 MEDICAL VERTICAL TO EXHIBIT HIGHEST CAGR IN DIGITAL HOLOGRAPHY MARKET DURING FORECAST PERIOD

FIGURE 18 APAC TO EXHIBIT HIGHEST CAGR IN DIGITAL HOLOGRAPHY MARKET

DURING FORECAST PERIOD

FIGURE 19 DIGITAL HOLOGRAPHY MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 20 DIGITAL HOLOGRAPHY MARKET DRIVERS AND THEIR IMPACT

- FIGURE 21 DIGITAL HOLOGRAPHY MARKET: VALUE CHAIN ANALYSIS
- FIGURE 22 DIGITAL HOLOGRAPHY MARKET, BY PROCESS TYPE
- FIGURE 23 BRIEF HISTORY OF HOLOGRAPHY
- FIGURE 24 DIGITAL HOLOGRAPHY TECHNIQUES
- FIGURE 25 DIGITAL HOLOGRAPHY MARKET, BY OFFERING
- FIGURE 26 HARDWARE SEGMENT TO HOLD LARGER SIZE OF DIGITAL HOLOGRAPHY MARKET DURING FORECAST PERIOD
- FIGURE 27 GLOBAL LASER TECHNOLOGY MARKET (USD BILLION)
- FIGURE 28 CMOS SENSORS TO DOMINATE MARKET DURING FORECAST PERIOD
- FIGURE 29 MARKET FOR 3D IMAGE SENSORS TO GROW AT HIGHER CAGR DURING FORECAST PERIOD
- FIGURE 30 DIGITAL HOLOGRAPHY MARKET, BY APPLICATION
- FIGURE 31 DIGITAL HOLOGRAPHIC DISPLAY TO LEAD MARKET, IN TERMS OF SIZE, BY 2024
- FIGURE 32 EVOLUTION OF DISPLAYS
- FIGURE 33 DIGITAL HOLOGRAPHY MARKET, BY VERTICAL
- FIGURE 34 COMMERCIAL VERTICAL TO DOMINATE DIGITAL HOLOGRAPHY MARKET, IN TERMS OF SIZE, DURING FORECAST PERIOD
- FIGURE 35 DIGITAL HOLOGRAPHY MARKET, BY REGION
- FIGURE 36 DIGITAL HOLOGRAPHY MARKET, GEOGRAPHIC SNAPSHOT
- FIGURE 37 NORTH AMERICA TO CONTINUE TO HOLD LARGEST SIZE OF DIGITAL HOLOGRAPHY MARKET BY 2024
- FIGURE 38 NORTH AMERICA: SNAPSHOT OF DIGITAL HOLOGRAPHY MARKET
- FIGURE 39 US TO DOMINATE NORTH AMERICAN DIGITAL HOLOGRAPHY MARKET DURING FORECAST PERIOD
- FIGURE 40 DIGITAL HOLOGRAPHY APPLICATION IMPACT IN US COMMERCIAL SECTOR (2019 VS 2024)
- FIGURE 41 EUROPE: SNAPSHOT OF DIGITAL HOLOGRAPHY MARKET
- FIGURE 42 MARKET IN REST OF EUROPE TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD
- FIGURE 43 APAC: SNAPSHOT OF DIGITAL HOLOGRAPHY MARKET
- FIGURE 44 DIGITAL HOLOGRAPHY MARKET IN CHINA TO REGISTER HIGHEST GROWTH RATE DURING FORECAST PERIOD
- FIGURE 45 MIDDLE EAST AND AFRICA TO REGISTER HIGHER GROWTH RATE DURING FORECAST PERIOD
- FIGURE 46 KEY DEVELOPMENTS BY LEADING PLAYERS IN MARKET FROM 2016

TO 2019

FIGURE 47 MARKET RANKING OF TOP 3 PLAYERS IN DIGITAL HOLOGRAPHY MARKET, 2018

FIGURE 48 DIGITAL HOLOGRAPHY MARKET (GLOBAL) COMPETITIVE LEADERSHIP MAPPING, 2018

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