

Handheld Chemical and Metal Detector Market with COVID-19 Impact Analysis by Technology (Raman Spectroscopy, Ion Mobility Spectrometry), Application (Chemical Detection, Explosive Detection), End User, and Geography - Global Forecast to 2027

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Abstracts

The global handheld chemical and metal detector market is expected to reach USD 4.1 billion by 2027 from an estimated USD 2.3 billion in 2022, at a CAGR of 12.4% from 2022 to 2027. The growth of the handheld chemical and metal detector market can also be attributed to the growing number of terrorist and criminal attacks resulting from geopolitical unrest.

“The chemical detection application is projected to lead the global handheld chemical and metal detector market during the forecast period”

According to the New York State Department of Health, chemicals can be toxic as they harm humans and animals by causing damage to vital organs or body functions when they enter the body. Exposure to such toxic chemicals can severely affect human health, or in some cases, it can lead to fatality. Some chemicals can explode, burn, or react easily with other chemicals and become hazardous for humans and the environment. Thus, reliable and accurate chemical detection devices are essential to curb the spread of such toxic chemicals. Handheld chemical detectors offer several advantages, such as rapid response time, easy operation, and the ability to scan through glass, plastic, and other container materials. They also help minimize the operator exposure to the chemical—keeping the first responder and community safer. According to the American Chemistry Council (ACC), the total chemical production volume in the US rose by 1.4% post COVID after a contraction of 3.5% in 2020. The chemical production volume is estimated to increase by 4.3% in FY 2022. Thus, the

increase in the production of chemicals is expected to increase the demand for handheld chemical detectors by the end users to safeguard workers and communities. Owing to this, the chemical detection segment accounted for the largest share of the handheld chemical and metal detector market in 2021 and is expected to dominate the market during the forecast period.

“Law enforcement agencies & forensic departments to witness the highest CAGR in handheld chemical and metal detector market during the forecast period.”

First responders highly rely on robust systems that not only enhance their capabilities in the field but also reduce the potential security risks. Thus, there is a high demand for highly accurate and reliable handheld chemical, explosive, narcotics, and metal detectors by law enforcement agencies & forensic teams to safely detect chemicals, explosives, metals, and priority drugs in minimal time. Furthermore, the increase in drug abuse during the pandemic and the emergence of carfentanyl, a synthetic opioid 10,000 times more potent than morphine and 100 times more potent than fentanyl, has increased the threat to communities and law enforcement agencies. This has led to increased demand for handheld narcotics detectors, which enable safe and accurate detection of such highly potent drugs. Owing to these, law enforcement agencies & forensic departments held the largest share of the handheld chemical and metal detector market in 2021. Also, these end users are projected to dominate the market during the forecast period and are likely to witness the highest CAGR from 2022 to 2027.

“Based on region, North America is expected to account for the largest share of the handheld chemical and metal detector market by 2027”

In 2027, North America is projected to hold the largest share of the overall handheld chemical and metal detector market. The major factor contributing to this growth is the dominance of the US with the presence of numerous chemical, explosive, narcotics, and metal detector manufacturers, including OSI Systems, Inc.; Teledyne Technologies Incorporated; Thermo Fisher Scientific Inc.; Agilent Technologies, Inc.; and 908 Devices Inc., in the country. Other factors spurring the growth of the handheld chemical and metal detector market in the region are the high adoption of handheld chemical, explosive, narcotics, and metal detectors by different end users, including law enforcement agencies & forensic departments, customs & borders, military & defense, airports, and the pharmaceuticals industries and increased initiatives by governments in procurement and development of compact and highly advanced handheld detection solutions.

In-depth interviews have been conducted with chief executive officers (CEOs), directors, and other executives from various key organizations operating in the handheld chemical and metal detector marketplace.

By Company Type: Tier 1 – 50%, Tier 2 – 30%, and Tier 3 – 20%

By Designation: C-level Executives – 45%, Directors– 35%, and Others – 20%

By Region: North America – 40%, Europe – 30%, APAC – 20%, and RoW – 10%

OSI Systems, Inc. (US), Teledyne Technologies Incorporated (US), Smiths Group plc (UK), Thermo Fisher Scientific Inc. (US), Agilent Technologies, Inc. (US), Bruker Corporation (US), Leidos (US), Garrett Metal Detectors (US), 908 Devices Inc. (US), and Nuctech Company Limited (China) are some of the key players in the handheld chemical and metal detector market.

The study includes an in-depth competitive analysis of these key players in the handheld chemical and metal detector market, with their company profiles, recent developments, and key market strategies.

Research Coverage

The report defines, describes, and forecasts the handheld chemical and metal detector market based on technology, application, end user, and region. It provides detailed information regarding factors such as drivers, restraints, opportunities, and challenges influencing the growth of the handheld chemical and metal detector market. It also analyzes contracts, product launches, collaborations, partnerships, agreements, expansions, and acquisitions, carried out by the key players to grow in the market.

Key Benefits of Buying the Report

This report will help market leaders/new entrants in this industry with information on the closest approximations of the revenue numbers for the overall handheld chemical and metal detector market and the subsegments. The report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report will also help stakeholders to understand the pulse of the market and provide them with information

on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION AND SCOPE

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 HANDHELD CHEMICAL AND METAL DETECTOR MARKET SEGMENTATION

1.3.2 YEARS CONSIDERED

1.4 CURRENCY

1.5 UNIT CONSIDERED

1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 HANDHELD CHEMICAL AND METAL DETECTOR MARKET: RESEARCH DESIGN

FIGURE 3 HANDHELD CHEMICAL AND METAL DETECTOR MARKET: RESEARCH APPROACH

2.1.1 SECONDARY DATA

2.1.1.1 List of key secondary sources

2.1.1.2 Secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Primary interviews with experts

2.1.2.2 Breakdown of primaries

2.1.2.3 Key data from primary sources

2.1.2.4 Key industry insights

2.2 FACTOR ANALYSIS

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1 – TOP-DOWN (SUPPLY SIDE): REVENUES GENERATED BY COMPANIES FROM SALES OF HANDHELD CHEMICAL, EXPLOSIVE, NARCOTICS, AND METAL DETECTORS

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1 – TOP-DOWN (SUPPLY SIDE): ILLUSTRATION OF REVENUE ESTIMATIONS FOR ONE COMPANY IN HANDHELD CHEMICAL AND METAL DETECTOR MARKET

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2 – BOTTOM-

UP (DEMAND SIDE): DEMAND FOR HANDHELD CHEMICAL, EXPLOSIVE, NARCOTICS, AND METAL DETECTORS BY VARIOUS END USERS

2.3 MARKET SIZE ESTIMATION

2.3.1 BOTTOM-UP APPROACH

2.3.1.1 Approach for obtaining market share using bottom-up analysis (demand side)

FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.3.2 TOP-DOWN APPROACH

2.3.2.1 Approach for obtaining market share using top-down analysis (supply side)

FIGURE 8 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.4 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 9 DATA TRIANGULATION

2.5 RESEARCH ASSUMPTIONS AND LIMITATIONS

2.5.1 ASSUMPTIONS

2.5.2 LIMITATIONS

2.6 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

3.1 IMPACT OF COVID-19 PANDEMIC ON HANDHELD CHEMICAL AND METAL DETECTOR MARKET

FIGURE 10 GLOBAL PROPAGATION OF COVID-19

TABLE 1 RECOVERY SCENARIOS FOR GLOBAL ECONOMY

3.2 REALISTIC SCENARIO

3.3 OPTIMISTIC SCENARIO

3.4 PESSIMISTIC SCENARIO

FIGURE 11 GROWTH PROJECTIONS OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN REALISTIC, OPTIMISTIC, AND PESSIMISTIC SCENARIOS

TABLE 2 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, IN TERMS OF VALUE AND VOLUME, 2018–2027

TABLE 3 PRE- AND POST-COVID-19 SCENARIOS OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET, 2018–2027 (USD MILLION)

FIGURE 12 PRE- AND POST-COVID-19 SCENARIOS OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET

FIGURE 13 RAMAN SPECTROSCOPY TECHNOLOGY TO DOMINATE HANDHELD CHEMICAL AND METAL DETECTOR MARKET FROM 2022 TO 2027

FIGURE 14 NARCOTICS DETECTION APPLICATION TO RECORD HIGHEST CAGR FROM 2022 TO 2027

FIGURE 15 LAW ENFORCEMENT AGENCIES & FORENSIC DEPARTMENTS TO REGISTER HIGHEST CAGR IN HANDHELD CHEMICAL AND METAL DETECTOR

MARKET DURING FORECAST PERIOD

FIGURE 16 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ASIA PACIFIC TO GROW AT FASTEST RATE FROM 2022-2027

4 PREMIUM INSIGHTS

4.1 HANDHELD CHEMICAL AND METAL DETECTOR MARKET OPPORTUNITIES

FIGURE 17 INCREASED GLOBAL ADOPTION OF HANDHELD CHEMICAL, EXPLOSIVE, NARCOTICS, AND METAL DETECTORS IN DIFFERENT REGIONS TO FUEL MARKET GROWTH FROM 2022 TO 2027

4.2 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY TECHNOLOGY

FIGURE 18 RAMAN SPECTROSCOPY TO ACCOUNT FOR LARGEST SHARE OF GLOBAL HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN 2027

4.3 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY APPLICATION

FIGURE 19 CHEMICAL DETECTION APPLICATION TO ACCOUNT FOR LARGEST SHARE OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN 2027

4.4 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY END USER

FIGURE 20 LAW ENFORCEMENT AGENCIES & FORENSIC DEPARTMENTS TO ACCOUNT FOR LARGEST SHARE OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN 2027

4.5 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY REGION

FIGURE 21 NORTH AMERICA TO ACCOUNT FOR LARGEST SHARE OF GLOBAL HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN 2027

4.6 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY COUNTRY

FIGURE 22 CHINA TO WITNESS HIGHEST CAGR IN GLOBAL HANDHELD CHEMICAL AND METAL DETECTOR MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 23 HANDHELD CHEMICAL AND METAL DETECTOR MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Increasing threat of chemical and explosives terrorism

FIGURE 24 EXPLOSION INCIDENTS IN US FROM 2016 TO 2020

5.2.1.2 Rising focus of governments worldwide on imposing stringent regulations to ensure human and environmental safety

FIGURE 25 HANDHELD CHEMICAL AND METAL MARKET DRIVERS AND THEIR

IMPACT

5.2.2 RESTRAINTS

5.2.2.1 Extremely high cost of handheld chemical, explosive, and narcotics detectors, along with longer time to market

FIGURE 26 HANDHELD CHEMICAL AND METAL DETECTOR MARKET RESTRAINTS AND THEIR IMPACT

5.2.3 OPPORTUNITIES

5.2.3.1 Increasing efforts of law enforcement agencies to fight against drug trafficking

5.2.3.2 Surging need to improve airport security

FIGURE 27 GLOBAL AIR PASSENGER VOLUME, 2015–2020

FIGURE 28 HANDHELD CHEMICAL AND METAL MARKET OPPORTUNITIES AND THEIR IMPACT

5.2.4 CHALLENGES

5.2.4.1 Interference caused in functioning of certain medical devices when end users are scanned using metal detectors

FIGURE 29 HANDHELD CHEMICAL AND METAL MARKET CHALLENGES AND THEIR IMPACT

5.3 SUPPLY CHAIN ANALYSIS

FIGURE 30 SUPPLY CHAIN OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET

5.4 TRENDS/DISRUPTIONS IMPACTING BUSINESS OF MARKET PLAYERS AND RAW MATERIAL SUPPLIERS

5.4.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR HANDHELD CHEMICAL AND METAL DETECTOR MARKET PLAYERS

FIGURE 31 REVENUE SHIFT IN HANDHELD CHEMICAL AND METAL DETECTOR MARKET

5.5 HANDHELD CHEMICAL AND METAL DETECTOR ECOSYSTEM

FIGURE 32 HANDHELD CHEMICAL AND METAL DETECTOR ECOSYSTEM

TABLE 4 LIST OF HANDHELD CHEMICAL, EXPLOSIVE, NARCOTICS, AND METAL DETECTOR MANUFACTURERS, SUPPLIERS, AND DISTRIBUTORS

5.6 PORTER'S FIVE FORCES MODEL

TABLE 5 HANDHELD CHEMICAL AND METAL DETECTOR MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 33 PORTER'S FIVE FORCES ANALYSIS

5.6.1 INTENSITY OF COMPETITIVE RIVALRY

5.6.2 BARGAINING POWER OF SUPPLIERS

5.6.3 BARGAINING POWER OF BUYERS

5.6.4 THREAT OF SUBSTITUTES

5.6.5 THREAT OF NEW ENTRANTS

5.7 CASE STUDY

5.7.1 THERMO FISHER SCIENTIFIC INC. HELPS SWEDISH CUSTOMS TO INTERCEPT AND INTERDICT ILLEGAL AND DANGEROUS ITEMS SMUGGLED INTO SWEDEN

5.7.2 MS TECHNOLOGIES INC. ASSISTS SHOPPING CENTER OWNER TO REINFORCE SECURITY IN SHOPPING CENTER AND UNDERGROUND PARKING

5.8 TECHNOLOGY ANALYSIS

5.8.1 COMPLEMENTARY TECHNOLOGIES

5.8.1.1 Bluetooth Low Energy (BLE)

5.8.2 ADJACENT TECHNOLOGIES

5.8.2.1 X-ray imaging

5.8.2.2 Fluorescence spectroscopy

5.9 AVERAGE SELLING PRICE ANALYSIS

TABLE 6 AVERAGE SELLING PRICES OF HANDHELD DETECTORS, BY TYPE

5.10 TRADE ANALYSIS

5.10.1 IMPORT SCENARIO

TABLE 7 IMPORT DATA, BY COUNTRY, 2016–2020 (USD MILLION)

5.10.2 EXPORT SCENARIO

TABLE 8 EXPORT DATA, BY COUNTRY, 2016–2020 (USD MILLION)

5.11 PATENT ANALYSIS, 2015–2021

FIGURE 34 PATENTS GRANTED WORLDWIDE, 2011–2021

TABLE 9 TOP 20 PATENT OWNERS IN US, 2011–2021

FIGURE 35 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS, 2011–2021

5.12 TARIFFS AND REGULATIONS

5.12.1 TARIFFS

5.12.2 REGULATORY COMPLIANCE

5.12.3 STANDARDS

6 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY TECHNOLOGY

6.1 INTRODUCTION

FIGURE 36 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY TECHNOLOGY

FIGURE 37 RAMAN SPECTROSCOPY TO ACCOUNT FOR LARGEST SHARE OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN 2022

TABLE 10 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 11 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY

TECHNOLOGY, 2022–2027 (USD MILLION)

6.2 RAMAN SPECTROSCOPY

6.2.1 HANDHELD RAMAN-BASED DETECTORS WERE PRIMARILY USED TO IDENTIFY WHITE POWDERS AND CLEAR LIQUIDS

6.3 ION MOBILITY SPECTROMETRY

6.3.1 ION MOBILITY SPECTROMETRY IS WIDELY USED TO IDENTIFY EXPLOSIVES AND NARCOTICS

FIGURE 38 ION MOBILITY SPECTROMETRY WORKING PRINCIPLE

6.4 METAL IDENTIFICATION

6.4.1 HANDHELD METAL DETECTORS USE ELECTROMAGNETIC FIELDS TO DETECT METALLIC OBJECTS

6.5 OTHERS

7 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY APPLICATION

7.1 INTRODUCTION

FIGURE 39 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY APPLICATION

FIGURE 40 CHEMICAL DETECTION APPLICATION TO ACCOUNT FOR LARGEST SHARE OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN 2022

TABLE 12 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 13 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

7.2 CHEMICAL DETECTION

7.2.1 DEMAND FOR HANDHELD CHEMICAL DETECTORS IS FUELED BY INCREASING USE OF CHEMICALS IN TERRORIST ACTIVITIES

TABLE 14 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR CHEMICAL DETECTION, BY END USER, 2018–2021 (USD MILLION)

TABLE 15 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR CHEMICAL DETECTION, BY END USER, 2022–2027 (USD MILLION)

TABLE 16 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR CHEMICAL DETECTION, BY REGION, 2018–2021 (USD MILLION)

TABLE 17 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR CHEMICAL DETECTION, BY REGION, 2022–2027 (USD MILLION)

7.3 EXPLOSIVE DETECTION

7.3.1 HANDHELD EXPLOSIVE DETECTORS ARE USED BY LAW ENFORCEMENT AGENCIES, HAZMAT TEAMS, BOMB SQUADS TO PROTECT BUILDINGS AND ASSETS

TABLE 18 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR EXPLOSIVE DETECTION, BY END USER, 2018–2021 (USD MILLION)

TABLE 19 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR EXPLOSIVE DETECTION, BY END USER, 2022–2027 (USD MILLION)

TABLE 20 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR EXPLOSIVE DETECTION, BY REGION, 2018–2021 (USD MILLION)

TABLE 21 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR EXPLOSIVE DETECTION, BY REGION, 2022–2027 (USD MILLION)

7.4 NARCOTICS DETECTION

7.4.1 MARKET FOR NARCOTICS DETECTION APPLICATION IS EXPECTED TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

FIGURE 41 LAW ENFORCEMENT AGENCIES & FORENSIC DEPARTMENTS TO ACCOUNT FOR LARGEST MARKET SHARE FOR NARCOTICS DETECTION APPLICATION IN 2022

TABLE 22 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR NARCOTICS DETECTION, BY END USER, 2018–2021 (USD MILLION)

TABLE 23 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR NARCOTICS DETECTION, BY END USER, 2022–2027 (USD MILLION)

TABLE 24 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR NARCOTICS DETECTION, BY REGION, 2018–2021 (USD MILLION)

TABLE 25 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR NARCOTICS DETECTION, BY REGION, 2022–2027 (USD MILLION)

7.5 METAL DETECTION

7.5.1 HANDHELD METAL DETECTORS ARE INTEGRAL PART OF PHYSICAL SECURITY SCREENING PROCESS

TABLE 26 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR METAL DETECTION, BY END USER, 2018–2021 (USD MILLION)

TABLE 27 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR METAL DETECTION, BY END USER, 2022–2027 (USD MILLION)

TABLE 28 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR METAL DETECTION, BY REGION, 2018–2021 (USD MILLION)

TABLE 29 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR METAL DETECTION, BY REGION, 2022–2027 (USD MILLION)

8 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY END USER

8.1 INTRODUCTION

FIGURE 42 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY END USER

FIGURE 43 LAW ENFORCEMENT AGENCIES & FORENSIC DEPARTMENTS TO EXHIBIT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 30 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 31 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY END USER, 2022–2027 (USD MILLION)

8.2 LAW ENFORCEMENT AGENCIES & FORENSIC DEPARTMENTS

8.2.1 INCREASE IN TERRORISM AND POTENTIAL THREATS MAKE LAW ENFORCEMENT AGENCIES MAJOR END USERS OF HANDHELD DETECTORS

TABLE 32 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR LAW ENFORCEMENT & FORENSIC DEPARTMENTS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 33 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR LAW ENFORCEMENT & FORENSIC DEPARTMENTS, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 34 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR LAW ENFORCEMENT & FORENSIC DEPARTMENTS, BY REGION, 2018–2021 (USD MILLION)

TABLE 35 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR LAW ENFORCEMENT & FORENSIC DEPARTMENTS, BY REGION, 2022–2027 (USD MILLION)

8.3 CUSTOMS & BORDERS

8.3.1 HANDHELD DETECTORS ENABLE QUICK AND NON-DESTRUCTIVE DETECTION OF METALS AND CHEMICALS USED IN MASS DESTRUCTION WEAPONS

FIGURE 44 CHEMICAL DETECTION APPLICATION TO CAPTURE LARGEST SHARE OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR CUSTOMS & BORDERS IN 2022

TABLE 36 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR CUSTOMS & BORDERS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 37 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR CUSTOMS & BORDERS, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 38 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR CUSTOMS & BORDERS, BY REGION, 2018–2021 (USD MILLION)

TABLE 39 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR CUSTOMS & BORDERS, BY REGION, 2022–2027 (USD MILLION)

8.4 MILITARY & DEFENSE

8.4.1 CONVENTIONAL AND HOMEMADE CBRN WEAPONS AND TOXIC INDUSTRIAL HAZARDS ARE COMPLEX THREATS

TABLE 40 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR MILITARY & DEFENSE, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 41 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR MILITARY & DEFENSE, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 42 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR MILITARY & DEFENSE, BY REGION, 2018–2021 (USD MILLION)

TABLE 43 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR MILITARY & DEFENSE, BY REGION, 2022–2027 (USD MILLION)

8.5 AIRPORTS

8.5.1 GROWING NUMBER OF AIR PASSENGERS AND INCREASING INTERNATIONAL CRIME RATE TO FUEL MARKET GROWTH

TABLE 44 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR AIRPORTS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 45 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR AIRPORTS, BY APPLICATION, 2022–2027 (USD MILLION)

FIGURE 45 NORTH AMERICA TO ACCOUNT FOR LARGEST SHARE OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR AIRPORTS IN 2022

TABLE 46 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR AIRPORTS, BY REGION, 2018–2021 (USD MILLION)

TABLE 47 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR AIRPORTS, BY REGION, 2022–2027 (USD MILLION)

8.6 OTHERS

TABLE 48 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR OTHERS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 49 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR OTHERS, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 50 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR OTHERS, BY REGION, 2018–2021 (USD MILLION)

TABLE 51 HANDHELD CHEMICAL AND METAL DETECTOR MARKET FOR OTHERS, BY REGION, 2022–2027 (USD MILLION)

9 GEOGRAPHIC ANALYSIS

9.1 INTRODUCTION

FIGURE 46 REGIONAL SPLIT OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET

FIGURE 47 NORTH AMERICA TO CAPTURE LARGEST SHARE OF HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN 2022

TABLE 52 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY REGION,

2018–2021 (USD MILLION)

TABLE 53 HANDHELD CHEMICAL AND METAL DETECTOR MARKET, BY REGION, 2022–2027 (USD MILLION)

9.2 NORTH AMERICA

FIGURE 48 NORTH AMERICA: HANDHELD CHEMICAL AND METAL DETECTOR MARKET SNAPSHOT

FIGURE 49 US TO CAPTURE MAJOR SHARE OF NORTH AMERICAN HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN 2027

TABLE 54 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN NORTH AMERICA, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 55 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN NORTH AMERICA, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 56 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN NORTH AMERICA, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 57 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN NORTH AMERICA, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 58 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN NORTH AMERICA, BY END USER, 2018–2021 (USD MILLION)

TABLE 59 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN NORTH AMERICA, BY END USER, 2022–2027 (USD MILLION)

9.2.1 US

9.2.1.1 US to dominate handheld chemical and metal detector market in North America

9.2.2 CANADA

9.2.2.1 Initiatives taken by government and Canada Border Services Agency for prohibiting entry of illegal goods to stimulate market growth in Canada

9.2.3 MEXICO

9.2.3.1 Increased use of handheld narcotics detectors for detection of illegal drugs in Mexico to fuel market growth

9.3 EUROPE

FIGURE 50 EUROPE: HANDHELD CHEMICAL AND METAL DETECTOR MARKET SNAPSHOT

FIGURE 51 GERMANY TO EXHIBIT HIGHEST CAGR IN EUROPEAN HANDHELD CHEMICAL AND METAL DETECTOR MARKET DURING FORECAST PERIOD

TABLE 60 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN EUROPE, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 61 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN EUROPE, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 62 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN EUROPE,

BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 63 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN EUROPE, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 64 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN EUROPE, BY END USER, 2018–2021 (USD MILLION)

TABLE 65 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN EUROPE, BY END USER, 2022–2027 (USD MILLION)

9.3.1 UK

9.3.1.1 Strong presence of handheld chemical, explosive, narcotics, and metal detector manufacturers to boost market growth

9.3.2 GERMANY

9.3.2.1 Increased drug trafficking activities and terrorism threats to foster market growth

9.3.3 FRANCE

9.3.3.1 Urgent need for strong security measures and public safety in France to spur market growth

9.3.4 REST OF EUROPE

9.4 ASIA PACIFIC

FIGURE 52 ASIA PACIFIC: HANDHELD CHEMICAL AND METAL DETECTOR MARKET SNAPSHOT

FIGURE 53 CHINA TO COMMAND HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ASIA PACIFIC IN 2022

TABLE 66 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ASIA PACIFIC, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 67 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ASIA PACIFIC, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 68 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ASIA PACIFIC, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 69 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ASIA PACIFIC, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 70 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ASIA PACIFIC, BY END USER, 2018–2021 (USD MILLION)

TABLE 71 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ASIA PACIFIC, BY END USER, 2022–2027 (USD MILLION)

9.4.1 CHINA

9.4.1.1 Robust presence of many chemical plants and airports to propel demand for handheld detectors

9.4.2 JAPAN

9.4.2.1 High security at airports and country borders to promote use of handheld

detectors in Japan

9.4.3 SOUTH KOREA

9.4.3.1 Increased number of workplace accidents and significant number of casualties while handling chemicals to fuel market growth in South Korea

9.4.4 REST OF ASIA PACIFIC

9.5 ROW

FIGURE 54 SOUTH AMERICA TO RECORD HIGHER CAGR DURING FORECAST PERIOD

TABLE 72 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ROW, BY REGION, 2018–2021 (USD MILLION)

TABLE 73 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ROW, BY REGION, 2022–2027 (USD MILLION)

TABLE 74 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ROW, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 75 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ROW, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 76 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ROW, BY END USER, 2018–2021 (USD MILLION)

TABLE 77 HANDHELD CHEMICAL AND METAL DETECTOR MARKET IN ROW, BY END USER, 2022–2027 (USD MILLION)

9.5.1 MIDDLE EAST & AFRICA

9.5.1.1 Drug trafficking and precious metal thefts to propel market growth

9.5.2 SOUTH AMERICA

9.5.2.1 Drug production, trafficking, and distribution to create opportunities for providers of handheld chemical and metal detectors

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW

10.2 MARKET EVALUATION FRAMEWORK

TABLE 78 OVERVIEW OF STRATEGIES DEPLOYED BY KEY HANDHELD CHEMICAL, EXPLOSIVE, NARCOTICS, AND METAL DETECTOR MANUFACTURERS

10.2.1 PRODUCT PORTFOLIO

10.2.2 REGIONAL FOCUS

10.2.3 MANUFACTURING FOOTPRINT

10.2.4 ORGANIC/INORGANIC STRATEGIES

10.3 MARKET SHARE ANALYSIS, 2021

TABLE 79 MARKET SHARE ANALYSIS OF TOP 5 COMPANIES (2021)

10.4 5-YEAR COMPANY REVENUE ANALYSIS

FIGURE 55 5-YEAR REVENUE ANALYSIS OF TOP 5 PLAYERS IN HANDHELD CHEMICAL AND METAL DETECTOR MARKET, 2017–2021

10.5 COMPANY EVALUATION QUADRANT

10.5.1 STAR

10.5.2 EMERGING LEADER

10.5.3 PERVASIVE

10.5.4 PARTICIPANT

FIGURE 56 HANDHELD CHEMICAL AND METAL DETECTOR: COMPANY EVALUATION QUADRANT, 2021

10.6 START-UP AND SME IN HANDHELD CHEMICAL AND METAL DETECTOR MARKET

TABLE 80 MANUFACTURERS OF HANDHELD CHEMICAL, EXPLOSIVE, AND NARCOTICS DETECTORS

TABLE 81 MANUFACTURERS OF HANDHELD METAL DETECTOR

10.7 COMPANY FOOTPRINT

TABLE 82 COMPANY FOOTPRINT

TABLE 83 COMPANY APPLICATION FOOTPRINT

TABLE 84 COMPANY END USER FOOTPRINT

TABLE 85 COMPANY REGION FOOTPRINT

10.8 COMPETITIVE SITUATIONS AND TRENDS

10.8.1 PRODUCT LAUNCHES

TABLE 86 PRODUCT LAUNCHES, JANUARY 2019–DECEMBER 2021

10.8.2 DEALS

TABLE 87 DEALS, JANUARY 2019–DECEMBER 2021

10.8.3 OTHERS

TABLE 88 EXPANSION, JANUARY 2019–DECEMBER 2021

11 COMPANY PROFILES

11.1 KEY PLAYERS

(Business overview, Products/solutions offered, Recent developments: Deals, MNM View, Right to win, Strategic choices made, and Weaknesses and competitive threats)*

11.1.1 OSI SYSTEMS, INC.

TABLE 89 OSI SYSTEMS, INC.: BUSINESS OVERVIEW

FIGURE 57 OSI SYSTEMS, INC.: COMPANY SNAPSHOT

11.1.2 TELEDYNE TECHNOLOGIES INCORPORATED

TABLE 90 TELEDYNE TECHNOLOGIES INCORPORATED: BUSINESS OVERVIEW

FIGURE 58 TELEDYNE TECHNOLOGIES INCORPORATED: COMPANY SNAPSHOT

11.1.3 SMITHS GROUP PLC

TABLE 91 SMITHS GROUP PLC: BUSINESS OVERVIEW

FIGURE 59 SMITHS GROUP PLC: COMPANY SNAPSHOT

11.1.4 THERMO FISHER SCIENTIFIC INC.

TABLE 92 THERMO FISHER SCIENTIFIC INC.: BUSINESS OVERVIEW

FIGURE 60 THERMO FISHER SCIENTIFIC INC.: COMPANY SNAPSHOT

11.1.5 AGILENT TECHNOLOGIES, INC.

TABLE 93 AGILENT TECHNOLOGIES, INC.: BUSINESS OVERVIEW

FIGURE 61 AGILENT TECHNOLOGIES, INC.: COMPANY SNAPSHOT

11.1.6 BRUKER CORPORATION

TABLE 94 BRUKER CORPORATION: BUSINESS OVERVIEW

FIGURE 62 BRUKER CORPORATION: COMPANY SNAPSHOT

11.1.7 LEIDOS

TABLE 95 LEIDOS: BUSINESS OVERVIEW

FIGURE 63 LEIDOS: COMPANY SNAPSHOT

11.1.8 GARRETT METAL DETECTORS

TABLE 96 GARRETT METAL DETECTORS: BUSINESS OVERVIEW

11.1.9 908 DEVICES INC.

TABLE 97 908 DEVICES INC.: BUSINESS OVERVIEW

FIGURE 64 908 DEVICES INC.: COMPANY SNAPSHOT

11.1.10 NUCTECH COMPANY LIMITED

TABLE 98 NUCTECH COMPANY LIMITED: BUSINESS OVERVIEW

11.2 OTHER KEY PLAYERS

11.2.1 SAFEWAY INSPECTION SYSTEM LIMITED

11.2.2 RIGAKU CORPORATION

11.2.3 CHEMRING GROUP PLC

11.2.4 ENVIRONICS OY

11.2.5 SHENZHEN SECURITY ELECTRONIC EQUIPMENT CO., LIMITED

11.2.6 PENDAR TECHNOLOGIES

11.2.7 ANTON PAAR GMBH

11.2.8 MS TECHNOLOGIES INC.

11.2.9 SCANNA MSC LTD.

11.2.10 C.E.I.A. S.P.A.

11.2.11 ADAMS ELECTRONICS

11.2.12 WESTMINSTER GROUP PLC

11.2.13 SERSTECH AB

11.2.14 AIRSENSE ANALYTICS GMBH

11.2.15 PKI ELECTRONIC INTELLIGENCE GMBH

*Details on Business overview, Products/solutions offered, Recent developments:

Deals, MNM View, Right to win, Strategic choices made, and Weaknesses and competitive threats might not be captured in case of unlisted companies.

12 APPENDIX

12.1 DISCUSSION GUIDE

12.2 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

12.3 AVAILABLE CUSTOMIZATIONS

12.4 RELATED REPORTS

12.5 AUTHOR DETAILS

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