

Remote Towers Market by Operation Type (Single, Multiple, Contingency), System Type (Airport Equipment, Remote Tower Modules, Solutions & Software), Application (Communication, Information & Control, Surveillance) and Region - Global Forecast to 2027

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Abstracts

The global remote towers market is projected to grow from USD 0.3 Billion in 2022 to USD 0.6 Billion by 2027, at a CAGR of 19.6% from 2022 to 2027. Remote towers refer to air traffic control towers that are remotely located, either near or far from airports. They provide Air Traffic Services (ATS) remotely through a real-time visual reproduction of the airport via high-definition cameras. These towers replace an air traffic control operator's direct out-of-the-window view with a live video feed. Remote towers consist of workstations known as Controller Working Positions (CWPs) that can control multiple airports simultaneously or on in a sequence as per a pre-determined schedule. This report also discusses the benefits of digital towers. A digital tower is a larger airport with numerous digital data sources such as surveillance and ATM data, where the opportunity to integrate fruitful data can prove beneficial.

This market report covers various applications and systems related to remote towers that are used in commercial and military airports. Remote towers are evolving rapidly in terms of technology, with the development of new, advanced, and high-speed cameras, remote modules, and communication systems. Increased cost saving, efficiency, and safety fuel the demand for remote towers.

The operational and financial effect of COVID-19 on the aviation industry is unparalleled. Air travel worldwide almost entirely ceased in April 2020, and this

negatively impacted the remote towers market as well. Domestic air travel has improved to around 65% of pre-crisis levels, while international air travel is still down roughly 70% due to travel restrictions. Additionally, profiles for traffic recovery vary dramatically by region and country. However, with the revival of COVID-19 variants in some regions, there remains ambiguity over how soon international traffic will recover regardless of the roll out of vaccinations. Business development opportunity of multiple remote tower firms has been severely impacted due to the overall shortage in demand of remote tower systems due to COVID-19 pandemic.

By operation type, the multiple segment is projected to grow at the highest CAGR during the forecast period.

In the simultaneous or a multiple configuration, the module and CWP enable Air traffic Service (ATS) to operate for two or more airports at the same time. In order to operate airport safely and to save build cost, equipment and manpower, major airport operators and Air Navigation Service together are working towards connecting various small airport with low traffic and making centralized to manage.

Based on investment, the expansion & modernization segment is projected to lead the remote towers market during the forecast period. Various European and American airports, including London City Airport (UK), Heathrow Airport (UK), Saarbrücken (Germany), Erfurt (Germany), and Dresden (Germany) are operating through expansion and modernization programs. The key priority of airport operators and air navigation service providers is to centralize 2-3 airports with low and medium air traffic with remote towers infrastructure.

Communication segment would lead based on application, because it is a crucial component for air traffic management. Communication between air traffic controllers and aircraft is in the form of voice and text. Remote towers are equipped with specific systems that process and display communication data. These systems collect and relay communications between control working positions (CWPs) and the aircraft.

Europe to lead the remote tower market in 2022, with the UK, and Sweden accounting for the significant share of the regional market. The growing demand for remote towers in the European region with the development of new and technologically advanced remote towers component such as high resolution cameras and panoramic display and communication systems are the key factors driving the market in Europe.

The break-up of profile of primary participants in the remote towers market:

Remote Towers Market by Operation Type (Single, Multiple, Contingency), System Type (Airport Equipment, Remote...

By Company Type: Tier 1 – 49%, Tier 2 – 37%, and Tier 3 – 14%

By Designation: C Level – 55%, Director Level – 27%, and Others – 18%

By Region: North America – 55%, Europe – 27%, Asia Pacific – 9%, RoW – 9%

Saab (Sweden), Thales Group (France), Frequentis Group (Austria), Indra Sistemas (Spain), and L3Harris Technologies (US) are some of the leading players operating in the remote towers market. These key players offer remote towers technology across the North America, European, Asia Pacific, Middle East & Africa and South America.

Research Coverage:

This report categories remote towers based on end users (military airport and commercial airport), based on application (communication, information & control, flight data handling, surveillance and visualization), based on operation type (single/sequential, multiple/ simultaneous, contingency, supplementary remote tower), based on system type (airport equipment, remote towers module and solutions & software) and based on investment (new installations and modernization & expansion). Also, this report discusses major regions of the world where leading service providers, suppliers and manufacturers of remote towers are located, namely Europe, North America, Europe, Asia Pacific and Rest of the World, along with their key countries. The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the remote towers market. A detailed analysis of the key industry players has been done to provide insights into their business overviews; solutions and services; key strategies; agreements, collaborations, new product launches, contracts, expansion, acquisitions, and partnerships associated with the remote towers market.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall remote towers market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Market Penetration: Comprehensive information on remote towers offered by the top players in the market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the remote towers market

Market Development: Comprehensive information about lucrative markets – the report analyzes the remote towers market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the remote towers market

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players in the remote towers market

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
 - 1.2.1 INCLUSIONS & EXCLUSIONS
- 1.3 MARKET SCOPE
 - 1.3.1 REMOTE TOWERS MARKET SEGMENTATION
 - 1.3.2 REGIONAL SCOPE
 - 1.3.3 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY & PRICING
- 1.5 USD EXCHANGE RATES
- 1.6 LIMITATIONS
- 1.7 LIMITATIONS
- 1.8 MARKET STAKEHOLDERS
- 1.9 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - FIGURE 1 RESEARCH PROCESS FLOW
 - FIGURE 2 RESEARCH DESIGN
 - 2.1.1 SECONDARY DATA
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key data from primary sources
 - 2.1.2.2 Key primary sources
 - 2.1.3 PRIMARY DATA
 - 2.1.3.1 Breakdown of primaries
 - 2.1.4 DEMAND-SIDE INDICATORS
 - 2.1.5 SUPPLY-SIDE ANALYSIS
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 MARKET DEFINITION & SCOPE
 - 2.2.2 EXCLUSIONS
 - 2.2.3 SEGMENTS AND SUBSEGMENTS
 - 2.2.4 BOTTOM-UP APPROACH
 - 2.2.4.1 Regional remote towers market
 - 2.2.4.2 Remote towers market, by operation type
 - 2.2.5 TOP-DOWN APPROACH

2.2.5.1 Remote towers market, by application

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 3 DATA TRIANGULATION METHODOLOGY

2.3.1 TRIANGULATION THROUGH PRIMARY AND SECONDARY RESEARCH

2.4 GROWTH RATE ASSUMPTIONS

2.5 ASSUMPTIONS FOR THE RESEARCH STUDY

2.6 RISKS

3 EXECUTIVE SUMMARY

FIGURE 4 BY OPERATION TYPE, MULTIPLE SEGMENT IN EUROPE PROJECTED TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 5 BY INVESTMENT, EXPANSION & MODERNIZATION SEGMENT PROJECTED TO LEAD MARKET DURING FORECAST PERIOD

FIGURE 6 BY APPLICATION, COMMUNICATION SEGMENT ESTIMATED TO LEAD MARKET DURING FORECAST PERIOD

FIGURE 7 EUROPE ESTIMATED TO ACCOUNT FOR LARGEST MARKET SHARE IN 2022

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES IN REMOTE TOWERS MARKET

FIGURE 8 INCREASED COST-SAVING AND EFFICIENCY & SAFETY DRIVE MARKET GROWTH

4.2 REMOTE TOWERS MARKET, BY APPLICATION

FIGURE 9 BY APPLICATION, COMMUNICATION SEGMENT PROJECTED TO LEAD MARKET DURING FORECAST PERIOD

4.3 REMOTE TOWERS MARKET, BY SYSTEM TYPE

FIGURE 10 BY SYSTEM TYPE, REMOTE TOWER MODULE SEGMENT PROJECTED TO LEAD MARKET DURING FORECAST PERIOD

4.4 REMOTE TOWERS MARKET, BY OPERATION TYPE

FIGURE 11 BY OPERATION TYPE, CONTINGENCY SEGMENT PROJECTED TO LEAD MARKET DURING FORECAST PERIOD

4.5 REMOTE TOWERS MARKET, BY END USER

FIGURE 12 MILITARY AIRPORT SEGMENT PROJECTED TO WITNESS UPWARD TREND DURING FORECAST PERIOD

4.6 REMOTE TOWERS MARKET, BY COUNTRY

FIGURE 13 CHINA PROJECTED TO BE FASTEST-GROWING MARKET FROM 2022 TO 2027

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 14 MARKET DYNAMICS IN REMOTE TOWERS MARKET

5.2.1 DRIVERS

5.2.1.1 Increased cost savings

5.2.1.2 Enhanced efficiency and safety

5.2.1.3 Growth in air passenger traffic fueling demand for new airlines

FIGURE 15 NEW AIRPORT INVESTMENT, BY REGION, AS OF OCTOBER 2021

5.2.1.4 Growing investments across aviation industry

TABLE 1 ANSP INVESTMENTS FOR REMOTE TOWER PROJECTS WORLDWIDE, 2010-2020

5.2.1.5 Improved situational awareness with digital towers for military sector

5.2.2 RESTRAINTS

5.2.2.1 Limited network infrastructure

5.2.2.2 Capacity issues of big airports

5.2.3 OPPORTUNITIES

5.2.3.1 Modernization of current air traffic management infrastructure

5.2.3.2 Growth of overall air traffic management industry

5.2.3.3 Digitalization in air traffic management

5.2.4 CHALLENGES

5.2.4.1 Rise in cyber threats to air traffic management

5.2.4.2 Risks associated with automation and need for extensive training & familiarity with new remote towers

5.3 COVID-19 IMPACT ON REMOTE TOWERS MARKET

FIGURE 16 COVID-19 IMPACT ON REMOTE TOWERS MARKET

FIGURE 17 COVID-19 IMPACT ON SUPPLY AND DEMAND SIDES OF REMOTE TOWERS MARKET

5.3.1 RANGES AND SCENARIOS

FIGURE 18 DEPENDING ON HOW UNCERTAINTIES UNFOLD, SPECTRUM OF SCENARIOS FOR REMOTE TOWERS MARKET

5.4 SUPPLY CHAIN ANALYSIS OF REMOTE TOWERS MARKET

FIGURE 19 SUPPLY CHAIN ANALYSIS

5.5 REMOTE TOWERS MARKET ECOSYSTEM

FIGURE 20 MARKET ECOSYSTEM MAP: REMOTE TOWERS MARKET

5.6 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.6.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR REMOTE TOWERS

MARKET PLAYERS

5.7 AVERAGE SELLING PRICES OF REMOTE TOWERS AND RELATED PRODUCTS, 2021-2022

TABLE 2 REMOTE TOWERS MARKET: AVERAGE SELLING PRICES, 2021-2022

5.8 PORTER'S FIVE FORCES ANALYSIS

TABLE 3 REMOTE TOWERS MARKET: PORTER'S FIVE FORCES ANALYSIS

5.8.1 THREAT OF NEW ENTRANTS

5.8.2 THREAT OF SUBSTITUTES

5.8.3 BARGAINING POWER OF SUPPLIERS

5.8.4 BARGAINING POWER OF BUYERS

5.8.5 DEGREE OF COMPETITION

5.9 TARIFF AND REGULATORY LANDSCAPE

5.9.1 AIR TRAFFIC CONTROL (ATC) CHARGES

5.9.1.1 Safety, Efficiency, & Transparency

5.9.1.2 International Campaigns

5.9.1.3 Exception Still Exists:

5.9.2 REGULATORY LANDSCAPE FOR DEPLOYMENT OF REMOTE AND DIGITAL TOWER TECHNOLOGY

FIGURE 21 REGULATORY ENVIRONMENT FOR REMOTE VIRTUAL TOWER

5.10 EVENTS AND CONFERENCES IN 2022-2023

TABLE 4 LIST OF UPCOMING REMOTE TOWER OR AIR TRAFFIC MANAGEMENT EVENTS AND CONFERENCES, 2022-2023

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 TECHNOLOGY TRENDS

6.2.1 5G NETWORK

6.2.2 DIGITALIZATION

6.2.3 ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, AND QUANTUM COMPUTING

6.2.4 STANDARD TERMINAL AUTOMATION REPLACEMENT SYSTEM (STARS)

6.2.5 AIRPORT SAFETY NETS

6.3 TECHNOLOGY ANALYSIS

6.3.1 ADS-B STREAMLINING SURVEILLANCE TECHNOLOGIES

6.3.2 AI INNOVATIONS PROVIDE CUTTING-EDGE SOLUTIONS IN AIR TRAFFIC CONTROL

6.3.3 AUTOMATION IN ATC

6.4 USE CASES

6.4.1 AIR TRAFFIC CONTROL THE NETHERLANDS (LVNL)'S AIR TRAFFIC CONTROL INITIATIVE FOR REGIONAL AIRPORTS

6.4.2 JERSEY AIRPORT'S DIGITAL AIR TRAFFIC CONTROL TOWER

6.4.3 SEARIDGE TECHNOLOGIES' ENHANCED AIRPORT VISION DISPLAY (EAVD)

6.4.4 ISAVIA AND FREQUENTIS GROUP PARTNERSHIP

6.4.5 CRANFIELD UNIVERSITY AND SAAB PARTNERSHIP

6.5 IMPACT OF MEGATRENDS

6.5.1 INTERNET OF THINGS (IOT)

TABLE 5 IOT INFRASTRUCTURE FOR REMOTE TOWERS & ATM

6.5.2 ENHANCED SITUATIONAL AWARENESS

6.6 INNOVATIONS & PATENT REGISTRATIONS

TABLE 6 INNOVATIONS & PATENT REGISTRATIONS, 2012-2020

7 REMOTE TOWERS MARKET, BY OPERATION TYPE

7.1 INTRODUCTION

FIGURE 22 REMOTE TOWERS MARKET SIZE, BY OPERATION TYPE, 2022–2027 (USD MILLION)

TABLE 7 REMOTE TOWERS MARKET SIZE, BY OPERATION TYPE, 2018–2021 (USD MILLION)

TABLE 8 REMOTE TOWERS MARKET SIZE, BY OPERATION TYPE, 2022–2027 (USD MILLION)

7.2 SINGLE

7.2.1 MEDIUM-SIZE AIRPORTS REQUIRE DEDICATED SINGLE REMOTE TOWERS

7.3 MULTIPLE

7.3.1 LARGE AND MEDIUM-SIZED AIRPORTS REQUIRE SIMULTANEOUSLY OR SEQUENTIALLY CONTROLLING REMOTE TOWERS

7.4 CONTINGENCY

7.4.1 EMERGENCY AND BACKUP REMOTE TOWERS

7.5 SUPPLEMENTARY REMOTE TOWER

7.5.1 PROVIDES EXTRA VIEW FOR NEW RUNWAYS

8 REMOTE TOWERS MARKET, BY SYSTEM TYPE

8.1 INTRODUCTION

FIGURE 23 REMOTE TOWERS MARKET SIZE, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

TABLE 9 REMOTE TOWERS MARKET SIZE, BY SYSTEM TYPE, 2018–2021 (USD MILLION)

TABLE 10 REMOTE TOWERS MARKET SIZE, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

8.2 AIRPORT EQUIPMENT

8.2.1 HELPS GAIN REAL-TIME AIRPORT VIEW AT REMOTE LOCATION

8.2.2 CAMERAS (180/360/PAN)

8.2.3 DISPLAY

8.2.4 VHF/UHF RADIOS

8.2.5 NAVAIDS

8.2.6 MET SENSORS

8.3 REMOTE TOWER MODULE

8.3.1 INCLUDES CONTROL WORKING POSITION AND VISUAL SYSTEMS

8.3.2 HEADS-UP DISPLAY (HUD)

8.3.3 HEADS-DOWN-DISPLAY (HDD)

8.4 SOLUTION & SOFTWARE

8.4.1 WIDE AREA NETWORK TO CONNECT REMOTE TOWER MODULES

WITH AIRPORT EQUIPMENT

8.4.2 WIDE AREA NETWORK (WAN)

8.4.2.1 WAN provides a connection between the airport and remote virtual tower to share communication

8.4.3 HIGH-SPEED IP NETWORK

8.4.3.1 High-speed IP network could be utilized in several fruitful live trials, delivering essential voice

8.4.4 DATA GATHERING AND ALERT SYSTEMS

8.4.4.1 Capturing & sensing surroundings, collecting data, and alerting control towers

8.4.5 INTERFACING AND INTEGRATION

8.4.5.1 Integration of individual systems with each other

8.4.6 PLATFORM AND SUITS

8.4.6.1 Present operational overview interactively

9 REMOTE TOWERS MARKET, BY APPLICATION

9.1 INTRODUCTION

FIGURE 24 REMOTE TOWERS MARKET SIZE, BY APPLICATION, 2022-2027 (USD MILLION)

TABLE 11 REMOTE TOWERS MARKET SIZE, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 12 REMOTE TOWERS MARKET SIZE, BY APPLICATION, 2022–2027 (USD

MILLION)

9.2 COMMUNICATION

9.2.1 CONNECTS AIR TRAFFIC AND GROUND-BASED SYSTEMS

9.3 INFORMATION & CONTROL

9.3.1 DATA PROCESSING AND PROVIDING OUTPUT FOR DECISION MAKING

9.4 FLIGHT DATA HANDLING

9.4.1 FLIGHT DATA INPUT TO CONTROLLERS AT CWPA

9.5 SURVEILLANCE

9.5.1 RADARS AND TRANSPONDERS AID WITH DATA FOR SURVEILLANCE

9.6 VISUALIZATION

9.6.1 DISPLAY SYSTEMS ARE INTEGRAL PART OF REMOTE TOWER SETUP

10 REMOTE TOWERS MARKET, BY END USER

10.1 INTRODUCTION

FIGURE 25 REMOTE TOWERS MARKET SIZE, BY END USER, 2022-2027 (USD MILLION)

TABLE 13 REMOTE TOWERS MARKET SIZE, BY END USER, 2018–2021 (USD MILLION)

TABLE 14 REMOTE TOWERS MARKET SIZE, BY END USER, 2022–2027 (USD MILLION)

10.2 MILITARY AIRPORT

10.3 COMMERCIAL AIRPORT

10.3.1 CLASS A (>20 MILLION)

10.3.2 CLASS B (10-20 MILLION)

10.3.3 CLASS C (1-10 MILLION)

10.3.4 CLASS D (

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