

Video Encoders Market by Number of Channel (1-Channel, 2-Channel, 4-Channel, 8-Channel, 16-Channel, more than 16-Channel), Type (Standalone, Rack-mounted), Application (Broadcasting, Surveillance) and Geography - Global Forecast to 2027

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Report description:

The video encoder market is estimated to reach USD 3.3 billion by 2027 from USD 2.3 billion in 2022 with a CAGR of 7.6% from 2022 to 2027. The major factors driving the growth of the video encoder market include adoption of high-efficiency video coding (HEVC) standards for video encoding, ease of connecting analog cameras using video encoder to a network, and use of cloud services to store increasing amount of data. Key players in the market focus on research and development (R&D) to enhance the functionalities of the video encoders offered. Moreover, growth in number of mobile-streaming videos and growing market for OTT services in developing countries are also creating immense opportunities for the video encoder market.

"BROADCASTING APPLICATION IS EXPECTED TO GROW AT THE HIGHEST CAGR FROM 2022 TO 2027"

The market for broadcasting application is expected to grow at the highest CAGR between 2022 and 2027. Video encoders are crucial in broadcasting, 4K recording/over IP, and supporting cameras (such as monitoring live events). Most broadcasters are now using video encoders to deliver high-quality video content using lower bandwidth. The installation of video encoders helps broadcasters deliver high-quality video at minimum bit rates. Hence, the need for service providers to transmit high-quality content and ensure better streaming has led to the increased demand for broadcast encoders.

"16-CHANNEL VIDEO ENCODERS IS PROJECTED TO GROW AT A HIGHER CAGR DURING THE FORECAST PERIOD"

The market for 16-channel encoders is projected to grow at a higher CAGR during forecast period. 16-channel video encoders have 16-channel video and audio inputs. The demand for 16-channel video encoder systems is expected to grow primarily due to the ease of 16-channel video encoder deployment rather than switching to expensive IP-based systems. The growing installation of a large number of cameras in commercial and institutional segments is expected to be another key factor supporting the growth of

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this market.

"NORTH AMERICA HELD THE LARGEST SHARE OF THE VIDEO ENCODERS MARKET IN 2021"

The North America held a larger share of the video encoder market in 2021. Collaborations between the government and network arenas, institutional partnerships between video encoder manufacturers and research collaborations, and large-scale investments in cloud-based services in North America drive the demand for video encoders. Moreover, in North America, particularly in the US, the government has taken initiatives to implement surveillance systems at government buildings, public places, and educational institutes. North America is considered a pioneer in adopting video surveillance systems for public safety. Video encoders play a major role in converting the existing analog systems into IP-based systems.

The break-up of the profiles of primary participants for the report has been given below:

- By Company Type: Tier 1 = 25%, Tier 2 = 35%, and Tier 3 = 40%
- By Designation: C-Level Executives = 35%, Directors = 25%, and Others = 40%
- By Region: North America = 14%, Europe = 43%, Asia Pacific = 29%, and RoW = 14%

Major players operating in the video encoders market include Hikvision (China), VITEC (France), Harmonic (US), Motorola Solutions (US), and CISCO (US), among others.

Research Coverage:

The video encoder market has been segmented based on the number of channels, type, application, and region. Based on type, the market has been segmented into standalone and rack-mounted video encoders. Standalone video encoders are beneficial in situations where only a few cameras are to be connected, while rack-mounted video encoders are useful in instances where large installations with analog cameras are required. The video encoder market is segmented, by application, into broadcasting and surveillance. Cable operators and broadcasters use video encoders to improve the video quality delivered to their customers. Surveillance applications cover various verticals, such as institutional, commercial, residential, transportation, retail, and military and defense. The use of security cameras in these verticals has helped increase the demand for video encoders. The video encoder market has been segmented by the number of channels into 1-channel, 2-channel, 4-channel, 8-channel, 16-channel, and more than 16-channel video encoders. 1-channel or 2-channel video encoders are used for small-scale applications such as small shops or individual residents. 8-channel and 16-channel video encoders can be used for instances where many analog cameras are to be installed. The report covers four major regions, namely, North America, Europe, Asia Pacific (APAC), and Rest of the World (RoW).

Key Benefits of Buying the Report:

- This report segments the video encoders market comprehensively and provides the closest approximations of the overall market size, as well as that of the subsegments across different number of channels, type, application, and region.
- The report helps stakeholders understand the pulse of the market, and expected market scenario and provides information on key market drivers, restraints, challenges, and opportunities.

Table of Contents:

1	INTRODUCTION	24
1.1	STUDY OBJECTIVES	24
1.2	MARKET DEFINITION AND SCOPE	24
1.2.1	INCLUSIONS AND EXCLUSIONS	25
1.3	STUDY SCOPE	25
1.3.1	MARKETS COVERED	25
FIGURE 1 VIDEO ENCODER MARKET SEGMENTATION		25
1.3.2	REGIONAL SCOPE	26
1.3.3	YEARS CONSIDERED	26

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1.4	CURRENCY CONSIDERED	27
1.5	UNIT CONSIDERED	27
1.6	LIMITATIONS	27
1.7	STAKEHOLDERS	27
1.8	SUMMARY OF CHANGES	28
2	RESEARCH METHODOLOGY	29
2.1	RESEARCH DATA	29
FIGURE 2	VIDEO ENCODER MARKET: RESEARCH DESIGN	29
2.1.1	SECONDARY AND PRIMARY RESEARCH	30
FIGURE 3	VIDEO ENCODER MARKET: RESEARCH APPROACH	30
2.1.2	SECONDARY DATA	30
2.1.2.1	Major secondary sources	31
2.1.2.2	Secondary sources	31
2.1.3	PRIMARY DATA	31
2.1.3.1	Primary interviews with experts	32
2.1.3.2	Key data from primary sources	32
2.1.3.3	Key industry insights	32
2.1.3.4	Breakdown of primary interviews	33
2.2	MARKET SIZE ESTIMATION	33
FIGURE 4	MARKET SIZE ESTIMATION METHODOLOGY (SUPPLY SIDE): REVENUE OF COMPANIES FROM VIDEO ENCODERS	33
2.2.1	BOTTOM-UP APPROACH	34
2.2.1.1	Approach for arriving at market size using bottom-up approach (demand side)	34
FIGURE 5	VIDEO ENCODER MARKET: BOTTOM-UP APPROACH	35
2.2.2	TOP-DOWN APPROACH	35
2.2.2.1	Approach for arriving at market size using top-down approach (supply side)	35
FIGURE 6	VIDEO ENCODER MARKET: TOP-DOWN APPROACH	36
2.3	MARKET BREAKDOWN AND DATA TRIANGULATION	36
FIGURE 7	DATA TRIANGULATION	36
2.4	RESEARCH ASSUMPTIONS	37
3	EXECUTIVE SUMMARY	38
FIGURE 8	RACK-MOUNTED VIDEO ENCODERS TO REGISTER HIGHER CAGR DURING FORECAST PERIOD	39
FIGURE 9	1-CHANNEL VIDEO ENCODERS TO HOLD LARGEST MARKET SHARE FROM 2022-2027	39
FIGURE 10	BROADCASTING TO REMAIN LARGEST APPLICATION SEGMENT DURING FORECAST PERIOD	40
FIGURE 11	MIDDLE EAST & AFRICA EXPECTED TO BE FASTEST-GROWING REGION DURING FORECAST PERIOD	41
4	PREMIUM INSIGHTS	42
4.1	ATTRACTIVE OPPORTUNITIES IN VIDEO ENCODER MARKET	42
FIGURE 12	CONTINUOUS TECHNOLOGICAL ADVANCEMENTS TO BOOST MARKET GROWTH	42
4.2	VIDEO ENCODER MARKET, BY TYPE	42
FIGURE 13	RACK-MOUNTED VIDEO ENCODERS TO HOLD MAJOR MARKET SHARE DURING FORECAST PERIOD	42
4.3	VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS	43
FIGURE 14	1-CHANNEL VIDEO ENCODERS TO ACCOUNT FOR LARGEST MARKET SHARE IN 2027	43
4.4	VIDEO ENCODER MARKET, BY APPLICATION	43
FIGURE 15	BROADCASTING APPLICATIONS TO HOLD LARGEST MARKET SHARE IN 2027	43
4.5	VIDEO ENCODER MARKET, BY REGION	44
FIGURE 16	NORTH AMERICA TO DOMINATE MARKET IN 2027	44
5	MARKET OVERVIEW	45
5.1	INTRODUCTION	45

5.2	MARKET DYNAMICS	45
5.2.1	DRIVERS	45
	FIGURE 17 VIDEO ENCODER MARKET DRIVERS AND THEIR IMPACT	45
5.2.1.1	Ease of connecting analog cameras using video encoders to a network	45
5.2.1.2	Use of cloud services to store increasing volumes of data	46
5.2.1.3	Adoption of HEVC standard for video encoding	46
5.2.2	RESTRAINTS	47
	FIGURE 18 VIDEO ENCODER MARKET RESTRAINTS AND THEIR IMPACT	47
5.2.2.1	Limited capability to deliver 4K streaming and broadcasting services	47
5.2.3	OPPORTUNITIES	48
	FIGURE 19 VIDEO ENCODER MARKET OPPORTUNITIES AND THEIR IMPACT	48
5.2.3.1	Increasing use of mobile devices to stream videos	48
5.2.3.2	Optimization of network bandwidth for cable operators	48
5.2.3.3	Developing countries witnessing increased OTT consumption	49
5.2.4	CHALLENGES	49
	FIGURE 20 VIDEO ENCODER MARKET CHALLENGES AND THEIR IMPACT	49
5.2.4.1	High cost associated with adoption of newer technologies	49
5.3	TARIFFS AND REGULATIONS	50
5.4	VALUE CHAIN ANALYSIS	50
	FIGURE 21 VALUE CHAIN ANALYSIS: VIDEO ENCODER MARKET	50
5.5	VIDEO ENCODER ECOSYSTEM	51
	FIGURE 22 MARKET MAP OF VIDEO ENCODERS	51
5.6	AVERAGE SELLING PRICE	51
	TABLE 1 AVERAGE SELLING PRICE OF VIDEO ENCODERS FOR SURVEILLANCE APPLICATIONS, 2021	51
5.7	KEY USE CASES	51
5.7.1	GLOBO SETS NEW QUALITY STANDARDS IN 4K WITH BITMOVIN	51
5.7.2	NETFLIX UPDATES VIDEO CODECS FOR EFFICIENT ENCODING	52
5.7.3	TERRACE CITY COUNCIL TO BUY VIDEO ENCODERS	52
5.7.4	GOOGLE AND SAMSUNG OFFER SOLUTIONS TO SUPPORT AV1 CODEC	52
5.8	PATENT ANALYSIS	52
5.8.1	HEVC TECHNOLOGY PATENT	52
	FIGURE 23 TOP COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS RELATED TO HEVC TECHNOLOGY	52
	FIGURE 24 PATENT ANALYSIS RELATED TO HEVC TECHNOLOGY	53
	TABLE 2 TOP 20 PATENT OWNERS IN US IN LAST 10 YEARS	53
5.9	MAJOR NEXT-GENERATION VIDEO ENCODER TECHNOLOGIES	54
5.9.1	HEVC	54
5.9.2	VVC	54
5.9.3	AOMEDIA VIDEO 1 (AV1)	54
5.9.4	VP9	54
6	VIDEO ENCODER MARKET, BY COMPONENT	55
6.1	INTRODUCTION	55
6.2	ANALOG VIDEO INPUT	55
6.3	COAXIAL CABLES	55
6.4	PROCESSORS	55
6.5	MEMORY	55
6.6	SERIAL PORTS	56
6.7	LANs	56

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6.8 NETWORK SWITCHES 56

7 VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS 57

7.1 INTRODUCTION 58

FIGURE 25 VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS 58

FIGURE 26 1-CHANNEL VIDEO ENCODER SEGMENT TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD 58

TABLE 3 VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS, 2018-2021 (USD MILLION) 59

TABLE 4 VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS, 2022-2027 (USD MILLION) 59

7.2 1-CHANNEL VIDEO ENCODERS 60

7.2.1 IN DEMAND FOR CONTRIBUTION APPLICATIONS 60

TABLE 5 1-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2018-2021 (USD MILLION) 60

TABLE 6 1-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2022-2027 (USD MILLION) 60

TABLE 7 1-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2018-2021 (USD MILLION) 60

TABLE 8 1-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2022-2027 (USD MILLION) 61

7.3 2-CHANNEL VIDEO ENCODERS 61

7.3.1 VIDEO SURVEILLANCE INDUSTRY SWITCHING TO IP-BASED SYSTEMS 61

TABLE 9 2-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2018-2021 (USD MILLION) 61

TABLE 10 2-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2022-2027 (USD MILLION) 62

TABLE 11 2-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2018-2021 (USD MILLION) 62

TABLE 12 2-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2022-2027 (USD MILLION) 62

7.4 4-CHANNEL VIDEO ENCODERS 63

7.4.1 USED IN IPTV, LIVE STREAMING, AND SURVEILLANCE/MONITORING APPLICATIONS 63

TABLE 13 4-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2018-2021 (USD MILLION) 63

TABLE 14 4-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2022-2027 (USD MILLION) 63

TABLE 15 4-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2018-2021 (USD MILLION) 63

TABLE 16 4-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2022-2027 (USD MILLION) 64

7.5 8-CHANNEL VIDEO ENCODERS 64

7.5.1 USED IN COMMERCIAL, INSTITUTIONAL, AND RETAIL APPLICATIONS 64

TABLE 17 8-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2018-2021 (USD MILLION) 64

TABLE 18 8-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2022-2027 (USD MILLION) 64

TABLE 19 8-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2018-2021 (USD MILLION) 65

TABLE 20 8-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2022-2027 (USD MILLION) 65

7.6 16-CHANNEL VIDEO ENCODERS 65

7.6.1 EASIER TO DEPLOY THAN EXPENSIVE IP-BASED SYSTEMS 65

TABLE 21 16-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2018-2021 (USD MILLION) 65

TABLE 22 16-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2022-2027 (USD MILLION) 66

TABLE 23 16-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2018-2021 (USD MILLION) 66

TABLE 24 16-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2022-2027 (USD MILLION) 66

7.7 MORE THAN 16-CHANNEL VIDEO ENCODERS 67

7.7.1 OFFERS ADVANCED NETWORK CAPABILITIES, BETTER AUDIO QUALITY, AND EFFECTIVE VIDEO PERFORMANCE 67

TABLE 25 MORE THAN 16-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2018-2021 (USD MILLION) 67

TABLE 26 MORE THAN 16-CHANNEL: VIDEO ENCODER MARKET, BY TYPE, 2022-2027 (USD MILLION) 67

TABLE 27 MORE THAN 16-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2018-2021 (USD MILLION) 67

TABLE 28 MORE THAN 16-CHANNEL: VIDEO ENCODER MARKET, BY APPLICATION, 2022-2027 (USD MILLION) 68

8 VIDEO ENCODER MARKET, BY TYPE 69

8.1 INTRODUCTION 70

FIGURE 27 VIDEO ENCODER MARKET, BY TYPE 70

FIGURE 28 RACK-MOUNTED VIDEO ENCODERS SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD 70

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TABLE 29	VIDEO ENCODER MARKET, BY TYPE, 2018-2021 (USD MILLION)	70
TABLE 30	VIDEO ENCODER MARKET, BY TYPE, 2022-2027 (USD MILLION)	71
8.2	STANDALONE	71
8.2.1	ELIMINATES NEED FOR ADDITIONAL CABLING	71
TABLE 31	STANDALONE: VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS, 2018-2021 (USD MILLION)	71
TABLE 32	STANDALONE: VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS, 2022-2027 (USD MILLION)	72
8.3	RACK-MOUNTED	72
8.3.1	RISING PRODUCT LAUNCHES PROVIDING TRACTION	72
TABLE 33	RACK-MOUNTED: VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS, 2018-2021 (USD MILLION)	73
TABLE 34	RACK-MOUNTED: VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS, 2022-2027 (USD MILLION)	73
9	VIDEO ENCODER MARKET, BY APPLICATION	74
9.1	INTRODUCTION	75
FIGURE 29	VIDEO ENCODER MARKET, BY APPLICATION	75
FIGURE 30	BROADCASTING TO HOLD LARGEST MARKET SIZE IN 2027	75
TABLE 35	VIDEO ENCODER MARKET, BY APPLICATION, 2018-2021 (USD MILLION)	75
TABLE 36	VIDEO ENCODER MARKET, BY APPLICATION, 2022-2027 (USD MILLION)	76
9.2	BROADCASTING	76
9.2.1	ENCODERS CRUCIAL IN BROADCASTING, 4K RECORDING/OVER IP, AND SUPPORTING CAMERAS	76
TABLE 37	BROADCASTING: VIDEO ENCODER MARKET, BY TYPE, 2018-2021 (USD MILLION)	76
TABLE 38	BROADCASTING: VIDEO ENCODER MARKET, BY TYPE, 2022-2027 (USD MILLION)	77
TABLE 39	BROADCASTING: VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	77
TABLE 40	BROADCASTING: VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	77
TABLE 41	BROADCASTING: VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS, 2018-2021 (USD MILLION)	78
TABLE 42	BROADCASTING: VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS, 2022-2027 (USD MILLION)	78
9.2.1.1	Pay TV	79
TABLE 43	PAY TV: VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	79
TABLE 44	PAY TV: VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	79
9.2.1.2	Over-the-top (OTT) services	79
TABLE 45	OTT: VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	80
TABLE 46	OTT: VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	80
9.3	SURVEILLANCE	80
9.3.1	VIDEO SURVEILLANCE INDUSTRY SWITCHING TO IP-BASED SYSTEMS	80
TABLE 47	SURVEILLANCE: VIDEO ENCODER MARKET, 2018-2021 (THOUSAND UNIT)	80
TABLE 48	SURVEILLANCE: VIDEO ENCODER MARKET, 2022-2027 (THOUSAND UNIT)	81
TABLE 49	SURVEILLANCE: VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS, 2018-2021 (USD MILLION)	81
TABLE 50	SURVEILLANCE: VIDEO ENCODER MARKET, BY NUMBER OF CHANNELS, 2022-2027 (USD MILLION)	81
TABLE 51	SURVEILLANCE: VIDEO ENCODER MARKET, BY APPLICATION, 2018-2021 (USD MILLION)	82
TABLE 52	SURVEILLANCE: VIDEO ENCODER MARKET, BY APPLICATION, 2022-2027 (USD MILLION)	82
TABLE 53	SURVEILLANCE: VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	82
TABLE 54	SURVEILLANCE: VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	83
9.3.1.1	Retail	83
TABLE 55	RETAIL: VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	83
TABLE 56	RETAIL: VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	84
9.3.1.2	Transportation	84
TABLE 57	TRANSPORTATION: VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	84
TABLE 58	TRANSPORTATION: VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	85
9.3.1.3	Commercial	85

TABLE 59	COMMERCIAL: VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	86
TABLE 60	COMMERCIAL: VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	86
9.3.1.4	Residential	86
TABLE 61	RESIDENTIAL: VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	87
TABLE 62	RESIDENTIAL: VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	87
9.3.1.5	Institutional	87
TABLE 63	INSTITUTIONAL: VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	88
TABLE 64	INSTITUTIONAL: VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	88
9.3.1.6	Military and defense	88
TABLE 65	MILITARY AND DEFENSE: VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	89
TABLE 66	MILITARY AND DEFENSE: VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	89
10	VIDEO ENCODER MARKET, BY REGION	90
10.1	INTRODUCTION	91
FIGURE 31	MARKET IN INDIA EXPECTED TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD	91
FIGURE 32	VIDEO ENCODER MARKET IN ROW TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD	91
TABLE 67	VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	92
TABLE 68	VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	92
10.2	NORTH AMERICA	93
FIGURE 33	NORTH AMERICA: VIDEO ENCODER MARKET SNAPSHOT	94
FIGURE 34	US TO CONTINUE TO LEAD VIDEO ENCODER MARKET IN NORTH AMERICA DURING FORECAST PERIOD	95
TABLE 69	SURVEILLANCE: VIDEO ENCODER MARKET IN NORTH AMERICA, BY APPLICATION, 2018-2021 (USD MILLION)	95
TABLE 70	SURVEILLANCE: VIDEO ENCODER MARKET IN NORTH AMERICA, BY APPLICATION, 2022-2027 (USD MILLION)	96
TABLE 71	BROADCASTING: VIDEO ENCODER MARKET IN NORTH AMERICA, BY TYPE, 2018-2021 (USD MILLION)	96
TABLE 72	BROADCASTING: VIDEO ENCODER MARKET IN NORTH AMERICA, BY TYPE, 2022-2027 (USD MILLION)	96
TABLE 73	NORTH AMERICA: VIDEO ENCODER MARKET, BY COUNTRY, 2018-2021 (USD MILLION)	97
TABLE 74	NORTH AMERICA: VIDEO ENCODER MARKET, BY COUNTRY, 2022-2027 (USD MILLION)	97
10.2.1	US	97
10.2.1.1	US held largest share of video encoder market in North America in 2021	97
10.2.2	CANADA	98
10.2.2.1	Many cities installing CCTV street cameras	98
10.2.3	MEXICO	98
10.2.3.1	Upsurge in demand for personal safety from private sector	98
10.3	EUROPE	99
FIGURE 35	EUROPE: VIDEO ENCODER MARKET SNAPSHOT	100
FIGURE 36	GERMANY TO LEAD VIDEO ENCODER MARKET IN EUROPE IN 2022	101
TABLE 75	SURVEILLANCE: VIDEO ENCODER MARKET IN EUROPE, BY APPLICATION, 2018-2021 (USD MILLION)	101
TABLE 76	SURVEILLANCE: VIDEO ENCODER MARKET IN EUROPE, BY APPLICATION, 2022-2027 (USD MILLION)	102
TABLE 77	BROADCASTING: VIDEO ENCODER MARKET IN EUROPE, BY TYPE, 2018-2021 (USD MILLION)	102
TABLE 78	BROADCASTING: VIDEO ENCODER MARKET IN EUROPE, BY TYPE, 2022-2027 (USD MILLION)	102
TABLE 79	EUROPE: VIDEO ENCODER MARKET, BY COUNTRY, 2018-2021 (USD MILLION)	103
TABLE 80	EUROPE: VIDEO ENCODER MARKET, BY COUNTRY, 2022-2027 (USD MILLION)	103
10.3.1	UK	104
10.3.1.1	Heightened city surveillance	104
10.3.2	GERMANY	104
10.3.2.1	Increased CCTV camera installations in public areas and transport networks	104
10.3.3	FRANCE	105
10.3.3.1	Dynamic broadcasting industry to boost market	105

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10.3.4	SPAIN	105
10.3.4.1	Demand for video surveillance to boost market	105
10.3.5	ITALY	105
10.3.5.1	Broadcasters offering better video quality to subscribers	105
10.3.6	REST OF EUROPE	105
10.4	ASIA PACIFIC	106
FIGURE 37	ASIA PACIFIC: VIDEO ENCODER MARKET SNAPSHOT	106
FIGURE 38	JAPAN TO EXHIBIT HIGHEST CAGR IN ASIA PACIFIC DURING FORECAST PERIOD	107
TABLE 81	SURVEILLANCE: VIDEO ENCODER MARKET IN ASIA PACIFIC, BY APPLICATION, 2018-2021 (USD MILLION)	107
TABLE 82	SURVEILLANCE: VIDEO ENCODER MARKET IN ASIA PACIFIC, BY APPLICATION, 2022-2027 (USD MILLION)	107
TABLE 83	BROADCASTING: VIDEO ENCODER MARKET IN ASIA PACIFIC, BY TYPE, 2018-2021 (USD MILLION)	108
TABLE 84	BROADCASTING: VIDEO ENCODER MARKET IN ASIA PACIFIC, BY TYPE, 2022-2027 (USD MILLION)	108
TABLE 85	ASIA PACIFIC: VIDEO ENCODER MARKET, BY COUNTRY, 2018-2021 (USD MILLION)	108
TABLE 86	ASIA PACIFIC: VIDEO ENCODER MARKET, BY COUNTRY, 2022-2027 (USD MILLION)	109
10.4.1	CHINA	109
10.4.1.1	Surveillance applications to drive demand	109
10.4.2	JAPAN	110
10.4.2.1	Active video surveillance systems to ensure safety of citizens	110
10.4.3	INDIA	110
10.4.3.1	Video encoder market to grow at highest pace	110
10.4.4	SOUTH KOREA	111
10.4.4.1	Increasing security camera installations	111
10.4.5	REST OF ASIA PACIFIC	111
10.5	REST OF THE WORLD	111
FIGURE 39	MIDDLE EAST TO RECORD HIGHEST CAGR IN ROW DURING FORECAST PERIOD	111
TABLE 87	SURVEILLANCE: VIDEO ENCODER MARKET IN ROW, BY APPLICATION, 2018-2021 (USD MILLION)	112
TABLE 88	SURVEILLANCE: VIDEO ENCODER MARKET IN ROW, BY APPLICATION, 2022-2027 (USD MILLION)	112
TABLE 89	BROADCASTING: VIDEO ENCODER MARKET IN ROW, BY TYPE, 2018-2021 (USD MILLION)	112
TABLE 90	BROADCASTING: VIDEO ENCODER MARKET IN ROW, BY TYPE, 2022-2027 (USD MILLION)	113
TABLE 91	ROW: VIDEO ENCODER MARKET, BY REGION, 2018-2021 (USD MILLION)	113
TABLE 92	ROW: VIDEO ENCODER MARKET, BY REGION, 2022-2027 (USD MILLION)	113
10.5.1	SOUTH AMERICA	114
10.5.1.1	Growing demand for HD content	114
10.5.2	MIDDLE EAST	114
10.5.2.1	Increasing use of security cameras	114
10.5.3	AFRICA	114
10.5.3.1	African viewers enjoy HD and SD video experience, IPTV, and pay TV at affordable price	114
11	COMPETITIVE LANDSCAPE	115
11.1	OVERVIEW	115
FIGURE 40	KEY DEVELOPMENTS BY KEY PLAYERS IN VIDEO ENCODER MARKET (2020-2022)	115
11.2	MARKET SHARE ANALYSIS, 2021	116
TABLE 93	VIDEO ENCODER MARKET: MARKET SHARE ANALYSIS	116
11.3	COMPANY EVALUATION QUADRANT	117
11.3.1	STARS	117
11.3.2	EMERGING LEADERS	117
11.3.3	PERVASIVE PLAYERS	117
11.3.4	PARTICIPANTS	117

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FIGURE 41 VIDEO ENCODER MARKET: (GLOBAL) COMPANY QUADRANT, 2021 118

11.4 START-UP/SME EVALUATION QUADRANT 118

11.4.1 PROGRESSIVE COMPANIES 118

11.4.2 RESPONSIVE COMPANIES 118

11.4.3 DYNAMIC COMPANIES 119

11.4.4 STARTING BLOCKS 119

FIGURE 42 VIDEO ENCODER MARKET: START-UP/SME QUADRANT, 2021 119

11.5 COMPETITIVE SCENARIO 120

11.5.1 PRODUCT LAUNCHES AND DEVELOPMENTS 120

TABLE 94 PRODUCT LAUNCHES AND DEVELOPMENTS 120

11.5.2 DEALS 121

TABLE 95 DEALS 121

12 COMPANY PROFILES 123

12.1 KEY PLAYERS 123

(Business Overview, Products/Services/Solutions offered, Recent Developments, MnM view, Key strengths/Right to win, Strategic choices made, Weakness/competitive threats)*

12.1.1 HIKVISION 123

TABLE 96 HIKVISION: BUSINESS OVERVIEW 123

FIGURE 43 HIKVISION: COMPANY SNAPSHOT 124

12.1.2 VITEC 126

TABLE 97 VITEC: BUSINESS OVERVIEW 126

12.1.3 HARMONIC 128

TABLE 98 HARMONIC: BUSINESS OVERVIEW 128

FIGURE 44 HARMONIC: COMPANY SNAPSHOT 129

12.1.4 MOTOROLA SOLUTIONS 131

TABLE 99 MOTOROLA SOLUTIONS: BUSINESS OVERVIEW 131

FIGURE 45 MOTOROLA SOLUTIONS: COMPANY SNAPSHOT 132

12.1.5 CISCO 135

TABLE 100 CISCO: BUSINESS OVERVIEW 135

FIGURE 46 CISCO: COMPANY SNAPSHOT 135

12.1.6 COMMSCOPE 137

TABLE 101 COMMSCOPE: BUSINESS OVERVIEW 137

FIGURE 47 COMMSCOPE: COMPANY SNAPSHOT 138

12.1.7 AXIS COMMUNICATIONS 139

TABLE 102 AXIS COMMUNICATIONS: BUSINESS OVERVIEW 139

12.1.8 MATROX ELECTRONIC SYSTEMS 140

TABLE 103 MATROX ELECTRONIC SYSTEMS: BUSINESS OVERVIEW 140

12.1.9 DAHUA TECHNOLOGY 142

TABLE 104 DAHUA TECHNOLOGY.: BUSINESS OVERVIEW 142

FIGURE 48 DAHUA TECHNOLOGY: COMPANY SNAPSHOT 142

12.1.10 HAIVISION 144

TABLE 105 HAIVISION: BUSINESS OVERVIEW 144

12.1.11 BOSCH SECURITY SYSTEMS 145

TABLE 106 BOSCH SECURITY SYSTEMS: BUSINESS OVERVIEW 145

12.1.12 ATEME 147

TABLE 107 ATEME: BUSINESS OVERVIEW 147

FIGURE 49 ATEME: COMPANY SNAPSHOT 147

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12.1.13 TELESTE 149

TABLE 108 TELESTE: BUSINESS OVERVIEW 149

FIGURE 50 TELESTE: COMPANY SNAPSHOT 149

*Details on Business Overview, Products/Services/Solutions offered, Recent Developments, MnM view, Key strengths/Right to win, Strategic choices made, Weakness/competitive threats might not be captured in case of unlisted companies.

12.2 OTHER PLAYERS 151

12.2.1 VIDICORE 151

12.2.2 HAIWEITECH 152

12.2.3 BEAMR 152

12.2.4 ACTI 153

12.2.5 ERICSSON 153

12.2.6 HONEYWELL SECURITY GROUP 154

12.2.7 LILIN 154

13 ADJACENT AND RELATED MARKETS 155

13.1 INTRODUCTION 155

13.2 LIMITATIONS 155

13.3 VIDEO SURVEILLANCE MARKET 155

13.3.1 VIDEO SURVEILLANCE MARKET, BY SYSTEM 155

13.3.1.1 Introduction 155

TABLE 109 VIDEO SURVEILLANCE MARKET, BY SYSTEM, 2017-2020 (USD MILLION) 155

TABLE 110 VIDEO SURVEILLANCE MARKET, BY SYSTEM, 2021-2026 (USD MILLION) 156

13.3.2 ANALOG VIDEO SURVEILLANCE SYSTEMS 156

13.3.2.1 Mainly consist of analog cameras and DVRs 156

13.3.3 IP VIDEO SURVEILLANCE SYSTEMS 157

13.3.3.1 Offer enhanced security and better resolution 157

14 APPENDIX 158

14.1 INSIGHTS FROM INDUSTRY EXPERTS 158

14.2 DISCUSSION GUIDE - VIDEO ENCODER MARKET 159

14.3 KNOWLEDGESTORE: MARKETSANDMARKETS SUBSCRIPTION PORTAL 161

14.4 CUSTOMIZATION OPTIONS 163

14.5 RELATED REPORTS 163

14.6 AUTHOR DETAILS 164

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