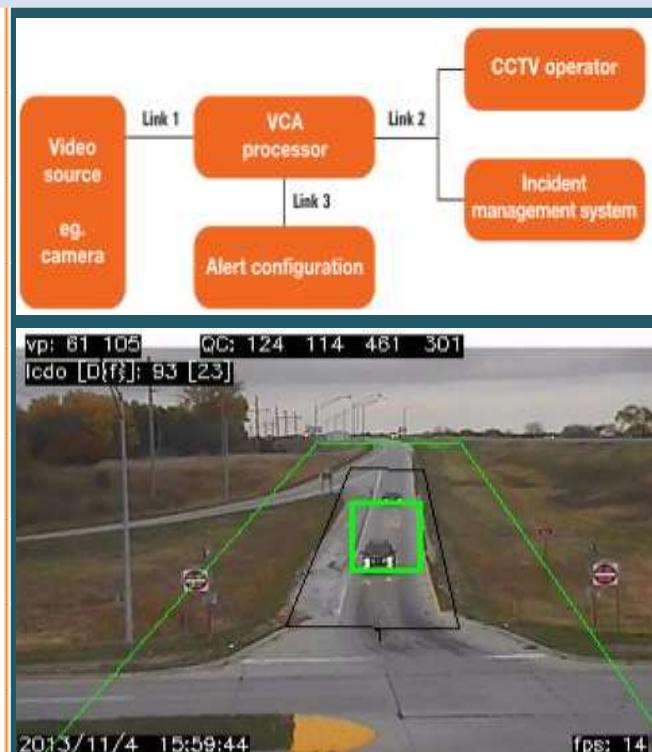


2015-2020

***TOC - Europe, Middle East, and Africa
Video Analytics,
Intelligent Video Surveillance & ISR :
Technologies, Industry & Market***

Volume 1& 2



Homeland Security Research Corp.

***Europe, Middle East, and Africa
Video Analytics,
Intelligent Video Surveillance & ISR:
Technologies, Industry & Market***

2015-2020

Volume 1

Table of Contents

1. Summary	24
2. Extended Summary	27
2.1. Major Findings.....	27
2.2. Major Conclusions.....	33
2.3. EMEA Intelligent Video Surveillance, ISR & Video Analytics Market – 2015-2020	42
 MARKET ANALYSIS.....	 47
3. VA, IVS & ISR: Market Drivers	47
4. VA, IVS & ISR: Market Inhibitors.....	50
5. IVS, ISR and Video Analytics Industry: SWOT Analysis	51
5.1. Strengths.....	51
5.2. Weaknesses.....	52
5.3. Opportunities.....	53
5.4. Threats	54
6. Intelligent Video Surveillance: Competitive Analysis.....	57
7. Business Challenges and Opportunities	58
7.1. Business Challenges.....	58
7.2. Business Opportunities	59
 TECHNOLOGIES.....	 61
8. Present and Pipeline Intelligent Video Surveillance Technologies	61
8.1. Intelligent CCTV Surveillance Technologies Challenges.....	63
8.1.1. Technologies Challenges.....	63
8.2. Remote Biometric Detection Challenges	63
8.2.1. Remote Threat Identification	64
8.2.2. Intelligent Video Surveillance System Performance.....	64
8.2.3. Distributed Sensors Remote Systems Challenges.....	64
8.3. IVS Remote Detection.....	65
8.4. Intelligent Video Surveillance Based Biometric Identification	66
8.4.1. Intelligent Video Surveillance and Biometrics	66
8.4.2. IVS Based Biometric Face Recognition Identification vs. Verification	68
8.4.3. Performance of CCTV-Based Biometric Recognition Technologies.....	68
8.4.4. Remote Biometric Identification Technologies	70
8.4.5. Criminal & Terrorist Watch Lists.....	70
8.4.6. Fused Intelligent Video Surveillance and Biometric Technology	74

8.4.7. Fused Multi-modal IVS Biometric Remote People Screening.....	76
8.5. Intelligent Video Surveillance: Tracking.....	77
8.5.1. Overview	77
8.5.2. IVS & VA based Behavioral Profiling	80
8.5.3. Tag and Track – IVS	80
8.5.4. Intelligent Video Surveillance: Behavior Profiling – Drivers.....	80
8.5.5. Intelligent Video Surveillance: Behavior Profiling – Inhibitors	81
8.6. Video Analytics-based Intelligent Transportation Systems	81
8.7. Tele-Retail, Amazon Fire Phone FireFly Video Analytics Firmware	82
9. Present and Pipeline Video Analytics (VA) & Video Content Analytics (VCA) Technologies.....	84
9.1. Video Analytics.....	84
9.1.1. Introduction	84
9.1.2. Wireless Video Analytics.....	84
9.1.3. Cloud-based Video Analytics	85
9.1.4. Cloud Platforms	86
9.1.5. Online Video Analytics	88
9.1.6. Behavioral Analysis.....	88
9.1.7. Video Analytic Applications	90
9.1.8. Video Analytics Architecture	90
9.1.9. Real Time Automatic Alerts Software	91
9.1.10. Image Segmentation Software.....	92
9.1.11. Item Tracking Intelligent CCTV Surveillance Software.....	93
9.1.12. Object Sorting and ID.....	93
9.1.13. Item Identification and Recognition	93
9.1.14. IVS Based Face Recognition	93
9.1.15. License Plate Recognition (LPR)	94
9.1.16. Sorting Actions and Behaviors	94
9.1.17. Crowd Surveillance	95
9.1.18. Multi-Camera Intelligent CCTV Surveillance Systems	96
9.2. Video Content Analysis (VCA)	96
9.2.1. Introduction	96
9.2.2. VCA Systems	97
9.2.3. Pipeline VCA Research.....	99
9.2.4. Video Content Analysis Software	100
9.2.5. Present Limitations of Video Analytics Software	100
9.2.6. Automated Analysis Of Video Surveillance Data	101
9.2.7. Item Detection	101
9.2.8. Background Subtraction: Gaussian Mixture Based Software.....	102
9.2.9. Background Subtraction.....	104
9.2.10. Item Detection Based on a Single-Image Algorithm.....	104
9.2.11. Item Tracking Software	104
9.2.12. Kalman Filtering Techniques, Region Segmentation	105

9.2.13. Kalman Filters Application To Track Moving Items	106
9.2.14. Partially Observable Markov Decision Process, IVS Systems	107
9.2.15. “Splitting” Items Algorithms	108
9.2.16. Dimension Based Items Classifiers.....	109
9.2.17. Shape Based Item Classifiers.....	110
9.2.18. Event Detection Methods.....	110
9.2.19. Vision-Based Human Action Recognition.....	112
9.2.20. 3D Derived Egomotion.....	112
9.2.21. Path Reconstruction Software.....	113
9.2.22. Video Cameras Gap Mitigation Software	113
9.2.23. Networked Cameras Tag and Track Software	114
9.3. Visual Intelligence Technologies	115
9.3.1. The Visual Intelligence Process	116
9.3.2. Fusion Engine	116
9.3.3. Event Description.....	117
9.3.4. Reasoning.....	117
9.3.5. Reporting	117
9.4. Smart Cameras	118
9.5. Pulse Video Analytics.....	119
9.6. Underwater ISR.....	119
9.7. ROSS Covert Multi-modal Ground ISR System	120
9.8. Mini ISR Aerostats.....	121
9.9. Pirsivash and Ramanan’s, Activity-Recognition IVS Algorithm	123
9.10. Camera & Video Analytics-based Advanced Driver Assistance Systems (ADAS) Technology and Market	125
9.10.1. Camera & VA-based Advanced Driver Assistance Systems Market.....	125
9.10.2. Camera & VA -based Advanced Driver Assistance Systems Technology.....	127
10. IVS Products and Services	131
10.1. IVS Present and Pipeline Products	131
10.1.1. Commercial Applications: Present and Pipeline Products.....	131
10.1.2. Pipeline Software And Hardware Under Development	133
10.2. IVS Based Intelligence, Surveillance and Reconnaissance (ISR) Systems	134
10.2.1. Overview	134
10.2.2. Portable ISR Video Surveillance Kits	135
10.3. Video Information Management (PSIM) Systems	136
10.4. Video Surveillance as a Service (VSaaS)	137
10.4.1. The VSaaS Technology	137
10.4.2. The VSaaS Market.....	138
10.4.3. Video Surveillance as Service: 26 Key Vendors	138

THE MARKET.....	140
11. EMEA Intelligent Video Surveillance, ISR & Video Analytics Market – 2015-2020.....	140
11.1. Middle East and Africa (ME&A) Background.....	140
11.1.1. Facts & Figures.....	140
11.1.2. Middle East and Africa Defense Forces.....	141
11.1.3. Middle East and Africa: 2014 Security Status & Outlook	142
11.1.4. East Africa.....	143
11.1.5. Middle East and Africa: Terror in 2013.....	143
11.2. EMEA Market Size	148
11.3. Market Analysis.....	150
11.4. EMEA IVS, ISR & VA Market by Country – 2015-2020.....	153
11.4.1. Country Comparison by Market Size	153
11.4.2. The Leading IVS, ISR & VA National Markets by Market Size.....	154
11.4.3. Country Comparison by Market Growth Rates.....	155
11.4.4. The Leading IVS, ISR & VA National Markets by Market Growth Rate.....	156
12. Defense, ISR & IVS & VA Market – 2015-2020	157
12.1. Market Background	157
12.1.1. Defense IVS Visual Intelligence	157
12.1.2. Visual Intelligence Performance Tasks	157
12.1.3. Unmanned Aerial ISR, Target Recognition and Surveillance Systems.....	158
12.1.4. Surveillance and Strike (UCLASS), MQ-8 Fire Scout, Broad Area Maritime Surveillance (BAMS) UAV; and Marine Corps Small Tactical Unmanned Aerial System.....	159
12.1.5. Unmanned Aerial ISR, Target Recognition and Surveillance Market - 2015-2020	160
12.1.6. UAV IVS Market.....	162
12.1.7. VideoScout Program.....	163
12.1.8. Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS) Program	164
12.2. EMEA Defense, ISR , IVS & VA Market – 2015-2020.....	164
12.2.1. Market Size	164
12.2.2. Market Analysis.....	165
13. Critical Infrastructure IVS Based Security Market – 2015-2020	167
13.1. Scope	167
13.2. Market Background	168
13.2.1. Overview	168
13.2.2. Critical Infrastructure IVS Based Security: Business Opportunities.....	169
13.3. Critical Infrastructure IVS Based Security: Market Drivers	170
13.4. Critical Infrastructure IVS Based Security: Market Inhibitors	170
13.5. Europe, Middle East & Africa (EMEA) Critical Infrastructure IVS Based Security Market – 2015-2020	171

13.5.1. EMEA Market Size.....	171
13.5.2. Europe, Middle East & Africa: Market Analysis.....	172
14. Transportation & Logistics IVS Market – 2015-2020	174
14.1. Market Background	174
14.1.1. Overview	174
14.1.2. Rail Industry IVS Market	175
14.1.3. IVS Based Vehicle Tracking.....	175
14.1.4. Key Transportation & Logistics IVS Companies.....	176
14.1.5. Automatic Number Plate Recognition (ANPR) Market	176
14.2. EMEA Transportation & Logistics IVS & VA Market – 2015-2020	177
14.2.1. EMEA Market Size.....	177
14.2.2. EMEA Market Analysis.....	178
15. Aviation & Maritime IVS Based Security Market – 2015-2020	180
15.1. Aviation IVS Based Security Market Background.....	180
15.1.1. Overview	180
15.1.2. IVS Based Aviation Security Background Data and Market Dynamics	183
15.1.3. Aviation IVS Based Security Business Opportunities.....	187
15.2. Aviation Security IVS Based Systems: Market Drivers.....	187
15.3. Aviation IVS Based Security: Market Inhibitors	188
15.4. Maritime IVS Based Security: Market Background.....	188
15.4.1. Scope.....	188
15.4.2. Overview	188
15.4.3. IVS Based Maritime Security Market: Business Opportunities.....	192
15.5. IVS Based Maritime Security: Market Drivers	193
15.6. IVS Based Maritime Security: Market Inhibitors	193
15.7. EMEA Aviation & Maritime IVS Based Security Market – 2015-2020	194
15.7.1. Market Size	194
15.7.2. Market Analysis.....	195
16. Safe Cities & Smart Cities IVS & VA Market – 2015-2020	197
16.1. Safe City vs. Smart City	197
16.1.1. Smart Cities	197
16.1.2. Safe Cities.....	198
16.1.3. Safe City Surveillance Systems market	200
16.2. Market Background	201
16.2.1. Safe City Market Definition.....	201
16.2.2. Safe City Public Safety Surveillance	202
16.3. Europe, Middle East & Africa (EMEA) Safe Cities & Smart Cities IVS & VA Market – 2015-2020	203
16.3.1. Europe, Middle East & Africa Market Size	203
16.3.2. Market Analysis.....	204
17. Border IVS Based Security Market – 2015-2020	206
17.1. Border IVS, VA,& ISR Based Security Market Background.....	206

17.1.1. Scope.....	206
17.1.2. Overview	206
17.1.3. IVS Based Biometric Border Checkpoints.....	207
17.1.4. Border Security - Strategic Context.....	207
17.1.5. IVS Based Border Security Market Challenges.....	207
17.2. IVS Based Border Security Market Drivers	208
17.3. IVS Based Border Security Market Inhibitors	208
17.4. IVS Based Border Security Sub-Market Growth Sectors.....	209
17.5. EMEA Border IVS Based Security Market – 2015-2020.....	209
17.5.1. Market Size.....	209
17.5.2. Market Analysis.....	210
18. Commercial & Public Buildings IVS & VA Market – 2015-2020.....	212
18.1. Commercial & Public Buildings IVS & VA Market Background.....	212
18.2. EMEA Commercial & Public Buildings IVS & VA Market – 2015-2020	213
18.2.1. Market Size.....	213
18.2.2. Market Analysis.....	214
19. Entertainment & Casinos IVS Based Security Market – 2015-2020	216
19.1. Entertainment & Casinos IVS Based Security Global Market Background	216
19.2. EMEA Entertainment & Casinos IVS Based Security Market – 2015-2020	217
19.2.1. EMEA Entertainment & Casinos IVS Based Security Market Size	217
19.2.2. EMEA Entertainment & Casinos IVS Based Security Market Analysis.....	218
20. Retail Industry IVS & VA Market – 2015-2020	220
20.1. Retail Industry IVS & VA Market Background	220
20.1.1. Retail Industry IVS & VA Overview	220
20.1.2. Intelligent Retail Surveillance	220
20.1.3. Retail Industry Intelligent Video Surveillance, ISR & Video Analytics Market.....	221
20.1.4. Loss Prevention IVS	222
20.1.5. Cash Register Intelligent Video Surveillance Security System.....	222
20.1.6. IVS Fused With Point-Of-Sale Transaction Data Systems	223
20.1.7. IVS Based Retail Object Tracking.....	223
20.1.8. Customer Demographics IVS Software	224
20.1.9. Maximizing Retail Sales, Profit and Productivity	225
20.1.10. The Retail Industry IVS Commercial Applications	225
20.1.11. Amazon Fire Phone FireFly Video Analytics Impact on the Tele-Retail Services.....	226
20.2. EMEA Retail Industry IVS & VA Market – 2015-2020	226
20.2.1. EMEA Retail Industry IVS & VA Market Size	226
20.2.2. Market Analysis.....	228

21. Residential IVS Based Security Market – 2015-2020.....	229
21.1. Residential IVS Based Security Market Background.....	229
21.1.1. Residential IVS Based Security Overview.....	229
21.1.2. Residential Intruder Detection IVS Functionality	229
21.2. EMEA Residential IVS Based Security Market – 2015-2020.....	231
21.2.1. EMEA Residential IVS Based Security Market Size - 2015-2020.....	231
21.2.2. Market Analysis.....	232
22. Other IVS & VA Applications Market – 2015-2020.....	234
22.1. Other IVS & VA Applications Market Background	234
22.2. EMEA Other Applications IVS & VA Market – 2015-2020.....	235
22.2.1. EMEA Other Applications IVS & VA Market Size.....	235
22.2.2. EMEA Other Applications IVS & VA Market Analysis	236
VENDORS	238
23. VA, ISR & ISR 111 Vendors	238
23.1. 3i-MIND	238
23.1.1. Company Profile	238
23.1.2. Video Surveillance Products	238
23.1.3. Contact Information.....	238
23.2. 3VR	239
23.2.1. Company Profile	239
23.2.2. Video Surveillance Products	239
23.2.3. Contact Information.....	239
23.3. 3xLOGIC	239
23.3.1. Company Profile	239
23.3.2. Video Surveillance Products	239
23.3.3. Contact Information.....	240
23.4. AAI Corporation.....	240
23.4.1. Company Profile	240
23.4.2. Video Surveillance Products	240
23.4.3. Contact Information.....	240
23.5. AAM Systems.....	240
23.5.1. Company Profile	240
23.5.2. Video Surveillance Products	241
23.5.3. Contact Information.....	241
23.6. ACTi Corporation.....	241
23.6.1. Company Profile	241
23.6.2. Video Surveillance Products	241
23.6.3. Contact Information.....	241
23.7. ADT Security Services	242
23.7.1. Company Profile	242
23.7.2. Video Surveillance Products	242
23.7.3. Contact Information.....	242
23.8. Adaptive Imaging Technologies	242
23.8.1. Company Profile	242

23.8.2. Video Surveillance Products	243
23.8.3. Contact Information.....	243
23.9. Agent Video Intelligence.....	243
23.9.1. Company Profile	243
23.9.2. Video Surveillance Products	243
23.9.3. Contact Information.....	243
23.10. AGT International	244
23.10.1. Company Profile.....	244
23.10.2. Video Surveillance Products.....	244
23.10.3. Contact Information	244
23.11. Aimetis	244
23.11.1. Company Profile.....	244
23.11.2. Video Surveillance Products.....	245
23.11.3. Contact Information	245
23.12. ALPHAOPEN	245
23.12.1. Company Profile.....	245
23.12.2. Video Surveillance Products.....	245
23.12.3. Contact Information	246
23.13. American Dynamics	246
23.13.1. Company Profile.....	246
23.13.2. Video Surveillance Products.....	246
23.13.3. Contact Information	246
23.14. Ampex Data Systems Corporation	246
23.14.1. Company Profile.....	246
23.14.2. Video Surveillance Products.....	247
23.14.3. Contact Information	247
23.15. Aralia System	247
23.15.1. Company Profile.....	247
23.15.2. Video Surveillance Products.....	247
23.15.3. Contact Information	248
23.16. AVCON Information Technology Co. Ltd.....	248
23.16.1. Company Profile.....	248
23.16.2. Video Surveillance Products.....	249
23.16.3. Contact Information	249
23.17. Avigilon Corporation	249
23.17.1. Company Profile.....	249
23.17.2. Video Surveillance Products.....	250
23.17.3. Contact Information	250
23.18. Axis	250
23.18.1. Company Profile.....	250
23.18.2. Video Surveillance Products.....	251
23.18.3. Contact Information	251
23.19. Axxon	251
23.19.1. Company Profile.....	251
23.19.2. Video Surveillance Products.....	252
23.19.3. Contact Information	252
23.20. BAE Systems Plc	252

23.20.1. Company Profile.....	252
23.20.2. Video Surveillance Products.....	252
23.20.3. Contact Information	252
23.21. Basler	253
23.21.1. Company Profile.....	253
23.21.2. Video Surveillance Products.....	253
23.21.3. Contact Information	253
23.22. BiKal.....	253
23.22.1. Company Profile.....	253
23.22.2. Video Surveillance Products.....	253
23.22.3. Contact Information	254
23.23. Boeing Defense, Space & Security	254
23.23.1. Company Profile.....	254
23.23.2. Video Surveillance Products.....	255
23.23.3. Contact Information	255
23.24. Bosch Security Systems.....	255
23.24.1. Company Profile.....	255
23.24.2. Video Surveillance Products.....	255
23.24.3. Contact Information	256
23.25. Briefcam	256
23.25.1. Company Profile.....	256
23.25.2. Video Surveillance Products.....	257
23.25.3. Contact Information	257
23.26. Camero	257
23.26.1. Company Profile.....	257
23.26.2. Video Surveillance Products.....	257
23.26.3. Contact Information	257
23.27. Cernium.....	258
23.27.1. Company Profile.....	258
23.27.2. Video Surveillance Products.....	258
23.27.3. Contact Information	258
23.28. Churchill Navigation	258
23.28.1. Company Profile.....	258
23.28.2. Video Surveillance Products.....	259
23.28.3. Contact Information	259
23.29. CIEFFE	259
23.29.1. Company Profile.....	259
23.29.2. Video Surveillance Products.....	259
23.29.3. Contact Information	259
23.30. Cisco	259
23.30.1. Company Profile.....	259
23.30.2. Video Surveillance Products.....	261
23.30.3. Contact Information	261
23.31. Citilog	261
23.31.1. Company Profile.....	261
23.31.2. Video Surveillance Products.....	261
23.31.3. Contact Information	262

23.32. ClickIt	262
23.32.1. Company Profile.....	262
23.32.2. Video Surveillance Products.....	263
23.32.3. Contact Information	263
23.33. Cognimatics	263
23.33.1. Company Profile.....	263
23.33.2. Video Surveillance Products.....	263
23.33.3. Contact Information	264
23.34. Digital Results Group	264
23.34.1. Company Profile.....	264
23.34.2. Video Surveillance Products.....	264
23.34.3. Contact Information	264
23.35. Emza Visual Sense	265
23.35.1. Company Profile.....	265
23.35.2. Video Surveillance Products.....	265
23.35.3. Contact Information	265
23.36. Eptascape	266
23.36.1. Company Profile.....	266
23.36.2. Video Surveillance Products.....	266
23.36.3. Contact Information	266
23.37. DVTel	267
23.37.1. Company Profile.....	267
23.37.2. Video Surveillance Products.....	267
23.37.3. Contact Information	267
23.38. Exacq	267
23.38.1. Company Profile.....	267
23.38.2. Video Surveillance Products.....	267
23.38.3. Contact Information	267
23.39. GE Security	268
23.39.1. Company Profile.....	268
23.39.2. Video Surveillance Products.....	268
23.39.3. Contact Information	268
23.40. Genetec.....	268
23.40.1. Company Profile.....	268
23.40.2. Video Surveillance Products.....	269
23.40.3. Contact Information	269
23.41. Geovision	269
23.41.1. Company Profile.....	269
23.41.2. Video Surveillance Products.....	269
23.41.3. Contact Information	270
23.42. HASAM	270
23.42.1. Company Profile.....	270
23.42.2. Video Surveillance Products.....	271
23.42.3. Contact Information	271
23.43. Honeywell.....	271
23.43.1. Company Profile.....	271
23.43.2. Video Surveillance Products.....	271

23.43.3. Contact Information	272
23.44. IMINT Image Intelligence AB.....	272
23.44.1. Company Profile.....	272
23.44.2. Video Surveillance Products.....	272
23.44.3. Contact Information	273
23.45. IndigoVision.....	273
23.45.1. Company Profile.....	273
23.45.2. Video Surveillance Products.....	273
23.45.3. Contact Information	273
23.46. Intellivid	273
23.46.1. Company Profile.....	273
23.46.2. Video Surveillance Products.....	274
23.46.3. Contact Information	274
23.47. Intergraph Corporation	274
23.47.1. Company Profile.....	274
23.47.2. Video Surveillance Products.....	274
23.47.3. Contact Information	274
23.48. IntuVision Inc.....	275
23.48.1. Company Profile.....	275
23.48.2. Video Surveillance Products.....	275
23.48.3. Contact Information	275
23.49. Ioiimage	275
23.49.1. Company Profile.....	275
23.49.2. Video Surveillance Products.....	275
23.49.3. Contact Information	276
23.50. IPConfigure	276
23.50.1. Company Profile.....	276
23.50.2. Video Surveillance Products.....	276
23.50.3. Contact Information	276
23.51. IPS Intelligent Video Analytics.....	276
23.51.1. Company Profile.....	276
23.51.2. Video Surveillance Products.....	277
23.51.3. Contact Information	277
23.52. Ipsotek.....	277
23.52.1. Company Profile.....	277
23.52.2. Video Surveillance Products.....	277
23.52.3. Contact Information	278
23.53. IQinVision.....	278
23.53.1. Company Profile.....	278
23.53.2. Video Surveillance Products.....	278
23.53.3. Contact Information	279
23.54. ISS	279
23.54.1. Company Profile.....	279
23.54.2. Video Surveillance Products.....	279
23.54.3. Contact Information	279
23.55. ITT EchoStorm	280
23.55.1. Company Profile.....	280

23.55.2. Video Surveillance Products.....	280
23.55.3. Contact Information	280
23.56. L-3 Communications Holdings Inc.....	280
23.56.1. Company Profile.....	280
23.56.2. Video Surveillance Products.....	281
23.56.3. Contact Information	281
23.57. Lockheed Martin Corporation	281
23.57.1. Company Profile.....	281
23.57.2. Video Surveillance Products.....	282
23.57.3. Contact Information	282
23.58. LuxRiot	282
23.58.1. Company Profile.....	282
23.58.2. Video Surveillance Products.....	282
23.58.3. Contact Information	282
23.59. MACROSCOP	282
23.59.1. Company Profile.....	282
23.59.2. Video Surveillance Products.....	282
23.59.3. Contact Information	283
23.60. March Networks	283
23.60.1. Company Profile.....	283
23.60.2. Video Surveillance Products.....	283
23.60.3. Contact Information	283
23.61. Mate Intelligent Video Ltd.....	283
23.61.1. Company Profile.....	283
23.61.2. Video Surveillance Products.....	284
23.61.3. Contact Information	284
23.62. Matrix Vision.....	285
23.62.1. Company Profile.....	285
23.62.2. Video Surveillance Products.....	285
23.62.3. Contact Information	285
23.63. MDS	286
23.63.1. Company Profile.....	286
23.63.2. Video Surveillance Products.....	286
23.63.3. Contact Information	287
23.64. Milestone Systems A/S	287
23.64.1. Company Profile.....	287
23.64.2. Video Surveillance Products.....	287
23.64.3. Contact Information	287
23.65. Mirasys.....	287
23.65.1. Company Profile.....	287
23.65.2. Video Surveillance Products.....	288
23.65.3. Contact Information	288
23.66. Mobotix.....	288
23.66.1. Company Profile.....	288
23.66.2. Video Surveillance Products.....	288
23.66.3. Contact Information	289
23.67. MTS.....	289

23.67.1. Company Profile.....	289
23.67.2. Video Surveillance Products.....	289
23.67.3. Contact Information	290
23.68. National Instruments	290
23.68.1. Company Profile.....	290
23.68.2. Video Surveillance Products.....	290
23.68.3. Contact Information	290
23.69. NetPosa Technologies, Ltd.	291
23.69.1. Company Profile.....	291
23.69.2. Video Surveillance Products.....	291
23.69.3. Contact Information	291
23.70. NICE Systems	291
23.70.1. Company Profile.....	291
23.70.2. Video Surveillance Products.....	292
23.70.3. Contact Information	292
23.71. Northrop Grumman Corporation.....	292
23.71.1. Company Profile.....	292
23.71.2. Video Surveillance Products.....	293
23.71.3. Contact Information	293
23.72. Nuuo.....	293
23.72.1. Company Profile.....	293
23.72.2. Video Surveillance Products.....	293
23.72.3. Contact Information	294
23.73. ObjectVideo.....	294
23.73.1. Company Profile.....	294
23.73.2. Video Surveillance Products.....	295
23.73.3. Contact Information	295
23.74. On-Net Surveillance Systems	295
23.74.1. Company Profile.....	295
23.74.2. Video Surveillance Products.....	295
23.74.3. Contact Information	296
23.75. PCI-Suntek Technology Co., Ltd.	296
23.75.1. Company Profile.....	296
23.75.2. Video Surveillance Products.....	296
23.75.3. Contact Information	296
23.76. Pelco	297
23.76.1. Company Profile.....	297
23.76.2. Video Surveillance Products.....	297
23.76.3. Contact Information	297
23.77. Pivot3	297
23.77.1. Company Profile.....	297
23.77.2. Video Surveillance Products.....	298
23.77.3. Contact Information	298
23.78. Pixim	298
23.78.1. Company Profile.....	298
23.78.2. Video Surveillance Products.....	298
23.78.3. Contact Information	298

23.79. Proximex	298
23.79.1. Company Profile.....	298
23.79.2. Video Surveillance Products.....	299
23.79.3. Contact Information	299
23.80. PV Labs.....	299
23.80.1. Company Profile.....	299
23.80.2. Video Surveillance Products.....	299
23.80.3. Contact Information	299
23.81. Raytheon Company.....	300
23.81.1. Company Profile.....	300
23.81.2. Video Surveillance Products.....	300
23.81.3. Contact Information	300
23.82. Salient Stills.....	300
23.82.1. Company Profile.....	300
23.82.2. Video Surveillance Products.....	301
23.82.3. Contact Information	301
23.83. Samsung Techwin.....	301
23.83.1. Company Profile.....	301
23.83.2. Video Surveillance Products.....	301
23.83.3. Contact Information	302
23.84. Sarnoff Corporation	302
23.84.1. Company Profile.....	302
23.84.2. Video Surveillance Products.....	302
23.84.3. Contact Information	302
23.85. SeeTec	303
23.85.1. Company Profile.....	303
23.85.2. Video Surveillance Products.....	303
23.85.3. Contact Information	303
23.86. Sentient	303
23.86.1. Company Profile.....	303
23.86.2. Video Surveillance Products.....	303
23.86.3. Contact Information	304
23.87. Siemens	304
23.87.1. Company Profile.....	304
23.87.2. Video Surveillance Products.....	305
23.87.3. Contact Information	306
23.88. SightLogix	306
23.88.1. Company Profile.....	306
23.88.2. Video Surveillance Products.....	306
23.88.3. Contact Information	306
23.89. Smartvue	307
23.89.1. Company Profile.....	307
23.89.2. Video Surveillance Products.....	307
23.89.3. Contact Information	307
23.90. Sony	307
23.90.1. Company Profile.....	307
23.90.2. Video Surveillance Products.....	308

23.90.3. Contact Information	308
23.91. Synectics.....	309
23.91.1. Company Profile.....	309
23.91.2. Video Surveillance Products.....	309
23.91.3. Contact Information	309
23.92. Synesis.....	309
23.92.1. Company Profile.....	309
23.92.2. Video Surveillance Products.....	310
23.92.3. Contact Information	310
23.93. Texas Instruments.....	310
23.93.1. Company Profile.....	310
23.93.2. Video Surveillance Products.....	310
23.93.3. Contact Information	312
23.94. Thales Group	312
23.94.1. Company Profile.....	312
23.94.2. Video Surveillance Products.....	313
23.94.3. Contact Information	314
23.95. V.A.S. GmbH.....	314
23.95.1. Company Profile.....	314
23.95.2. Video Surveillance Products.....	314
23.95.3. Contact Information	314
23.96. VDG Security BV.....	314
23.96.1. Company Profile.....	314
23.96.2. Video Surveillance Products.....	315
23.96.3. Contact Information	315
23.97. Verint.....	315
23.97.1. Company Profile.....	315
23.97.2. Video Surveillance Products.....	315
23.97.3. Contact Information	315
23.98. Viasys Intelligent Video Analytics	316
23.98.1. Company Profile.....	316
23.98.2. Video Surveillance Products.....	316
23.98.3. Contact Information	316
23.99. Vicon	316
23.99.1. Company Profile.....	316
23.99.2. Video Surveillance Products.....	316
23.99.3. Contact Information	317
23.100. Videalert Ltd.....	317
23.100.1. Company Profile	317
23.100.2. Video Surveillance Products.....	317
23.100.3. Contact Information	317
23.101. VideoBank.....	317
23.101.1. Company Profile	317
23.101.2. Video Surveillance Products.....	318
23.101.3. Contact Information	318
23.102. VideoIQ.....	318
23.102.1. Company Profile	318

23.102.2. Video Surveillance Products.....	318
23.102.3. Contact Information	318
23.103. VideoMining	319
23.103.1. Company Profile.....	319
23.103.2. Video Surveillance Products.....	319
23.103.3. Contact Information	319
23.104. VideoNext	319
23.104.1. Company Profile.....	319
23.104.2. Video Surveillance Products.....	320
23.104.3. Contact Information	320
23.105. Vident.....	320
23.105.1. Company Profile	320
23.105.2. Video Surveillance Products.....	320
23.105.3. Contact Information	320
23.106. Vigilant Systems	321
23.106.1. Company Profile.....	321
23.106.2. Video Surveillance Products.....	321
23.106.3. Contact Information	321
23.107. Vi-system	322
23.107.1. Company Profile.....	322
23.107.2. Video Surveillance Products.....	322
23.107.3. Contact Information	322
23.108. WeCU Technologies Ltd.....	323
23.108.1. Company Profile	323
23.108.2. Video Surveillance Products.....	323
23.108.3. Contact Information	323
23.109. Westec.....	324
23.109.1. Company Profile.....	324
23.109.2. Video Surveillance Products.....	324
23.109.3. Contact Information	324
23.110. Zhejiang Dahua Technology	325
23.110.1. Company Profile.....	325
23.110.2. Video Surveillance Products.....	325
23.110.3. Contact Information	325

List of Tables

Table 1 - EMEA Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] – 2011 & 2020	26
Table 2 - EMEA Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Vertical Submarket - 2011- 2020	44
Table 3 - EMEA Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Vertical Submarket - 2012-2020	46
Table 4- Video Analytics Market: Business Opportunities	59
Table 5 - Retica Remote Biometric System Performance	74
Table 6 - Video Content Analysis Functions and Description	96
Table 7 - Pipeline VCA: Sub-Systems, Technology, Technology Challenges and Target Performance	99
Table 8 - ME&A Population [M] and GDP [\$B] by Country – 2013	140
Table 9 - ME&A 2013 Military Personnel and Military Expenditures [\$M] by Country.....	141
Table 10 - EMEA Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Vertical Submarket - 2011- 2020	148
Table 11 - EMEA Intelligent Video Surveillance, ISR & Video Analytics Market Shares [%] by Vertical Submarket - 2011-2020.....	150
Table 12 - EMEA Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Vertical Submarket - 2012-2020	152
Table 13 - EMEA National Intelligent Video Surveillance, ISR & Video Analytics Markets, Ranked by Cumulative 2014-2020 Market [\$B].....	153
Table 14 - EMEA National Intelligent Video Surveillance, ISR & Video Analytics Markets, Ranked by 2013-2020 CAGR [%]	155
Table 15 - UAV Technology Outlook – 2009-2034	159
Table 16 - Acquisition Cost [\$Millions of 2011 Dollars] of Medium-Sized and Large Unmanned Aircraft Systems (DOD 2012 Plan)	161
Table 17 - EMEA Defense, ISR , IVS & VA Market [\$M] – 2011-2020	164
Table 18 - EMEA Defense, ISR, IVS & VA Market AGR [%] - 2012-2020.....	166
Table 19 - Critical Infrastructure Protection Market Sectors	169
Table 20 - Europe, Middle East & Africa Critical Infrastructure IVS Based Security Market [\$M] – 2011-2020	171
Table 21 - Europe, Middle East & Africa Critical Infrastructure IVS Based Security Market AGR [%] - 2012-2020	172
Table 22 - EMEA Transportation & Logistics IVS & VA Market [\$M] – 2011-2020	177
Table 23 - EMEA Transportation & Logistics IVS & VA Market AGR [%] - 2012-2020.....	178
Table 24 - Aviation IVS Based Security Business Opportunities	187
Table 25 - Global Largest Throughput Ports - 2008-2011 [Million Ton].....	190
Table 26 - Maritime IVS Based Security Growth Sectors	192
Table 27 - Maritime IVS Based Security Market: Business Opportunities	192

Table 28 - EMEA Aviation & Maritime IVS Based Security Market [\$M] – 2011-2020.....	194
Table 29 - EMEA Aviation & Maritime IVS Based Security Market AGR [%] - 2012-2020.....	195
Table 30 - EMEA Safe Cities & Smart Cities IVS & VA Market [\$M] – 2011-2020.....	203
Table 31 - EMEA Safe Cities & Smart Cities IVS & VA Market AGR [%] - 2012-2020.....	204
Table 32 - IVS Based Border Security Sub-Market Growth Sectors	209
Table 33 - EMEA Border IVS Based Security Market [\$M] – 2011-2020.....	209
Table 34 - EMEA Border IVS Based Security Market AGR [%] - 2012- 2020	210
Table 35 - EMEA Commercial & Public Buildings IVS & VA Market [\$M] – 2011-2020.....	213
Table 36 - EMEA Commercial & Public Buildings IVS & VA Market AGR [%] - 2012-2020.....	214
Table 37 - EMEA Entertainment & Casinos IVS Based Security Market [\$M] – 2011-2020	217
Table 38 - EMEA Entertainment & Casinos IVS Based Security Market AGR [%] - 2012-2020.....	218
Table 39 - EMEA Retail Industry IVS & VA Market [\$M] – 2011-2020	227
Table 40 - EMEA Retail Industry IVS & VA Market AGR [%] - 2012- 2020	228
Table 41 - EMEA Residential IVS Based Security Market [\$M] – 2011- 2020	231
Table 42 - EMEA Residential IVS Based Security Market AGR [%] - 2012-2020	232
Table 43 - EMEA Other Applications IVS & VA Market [\$M] – 2011- 2020	235
Table 44 - EMEA Other Applications IVS & VA Market AGR [%] - 2012- 2020	236

List of Figures

Figure 1 - Video Surveillance Technologies Timeline.....	27
Figure 2 - Video Analytics System: Block Diagram	28
Figure 3 - Standoff Biometric People Screening Using Video Analytics	29
Figure 4 - Video Analytics Architecture	30
Figure 5 - Europe VA, IVS & ISR Market Chart	42
Figure 6 - Middle-East & Africa VA, IVS & ISR Market Chart	43
Figure 7 - EMEA Intelligent Video Surveillance, ISR & Video Analytics Market Shares [%] by Vertical Submarket – 2011, 2020.....	45
Figure 8 - Intelligent Video Surveillance, ISR & Video Analytics Market – Competitive Analysis	57
Figure 9 - Security Related Intelligent Video Surveillance: Performance Criteria Chart.....	58
Figure 10 - Checkpoint, Fused People & LPR CCTV Surveillance Setup	62
Figure 11 - Standoff Biometric People Screening Using Biometric Intelligent Video Surveillance	67
Figure 12 - CCTV Surveillance Notice.....	69
Figure 13 - The USA Terrorist Watch List and Screening Flowchart	72
Figure 14 - Field of View of a Fused Video Surveillance and Biometrics	74
Figure 15 - An IVS Based Biometric Portal Layout.....	75
Figure 16 - Future People/Baggage Screening	75
Figure 17 - Profiling and Behavior Tracking – Principles of Operation	78
Figure 18 - Highway Monitored by an Intelligent Transportation System	82
Figure 19 - Police Application of Wireless Video Analytics.....	84
Figure 20 - Cloud Based Video Analytics Architecture	86
Figure 21 - Architecture of Video Understanding Systems	89
Figure 22 - Video Analytics Architecture	90
Figure 23 - VCA Block Diagram and Data Flow	98
Figure 24 - Unattended Item Detection Algorithm Flow Chart	111
Figure 25 - Visual Intelligence Process	116
Figure 26 - ROSS Covert Multi modal Ground ISR System	121
Figure 27 - SkyStar 100 Mini Aerostat.....	122
Figure 28 - Capture of Hierarchical Temporal Structure.....	123
Figure 29 - Mobileye Detects: Lane Departure, Forward Collision Monitoring, Headway Monitoring, Speed Indication, Intelligent High Beam and Pedestrian Collision Monitoring	126
Figure 30 - “Lane Keeping” Mode.....	128
Figure 31 - A Portable ISR Video Surveillance Kit.....	135
Figure 32 - ME&A Terror Attacks and Casualties -2010- Mid. 2014.....	144
Figure 33 - 2000-2013 Terror Attacks and Casualties by Country	145
Figure 34 - EMEA Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Vertical Submarket - 2011-2020	149
Figure 35 - EMEA Intelligent Video Surveillance, ISR & Video Analytics Market Shares [%] by Vertical Submarket – 2011, 2020	151

Figure 36 - The Leading EMEA Intelligent Video Surveillance, ISR & Video Analytics National Markets by Cumulative 2014-2020 Market [\$B].....	154
Figure 37 - The Leading Intelligent Video Surveillance, ISR & Video Analytics National Markets by 2013-2020 CAGR [%].....	156
Figure 38 - Visual Intelligence Architecture	158
Figure 39 - EMEA Defense, ISR, IVS & VA Market [\$M] – 2011-2020.....	165
Figure 40 - EMEA Defense, ISR, IVS & VA Market AGR [%] - 2012-2020	166
Figure 41 - Critical Infrastructure Sectors Dependencies and Interdependencies.....	168
Figure 42 - Private Sector Critical Infrastructure	169
Figure 43 - Europe, Middle East & Africa Critical Infrastructure IVS Based Security Market [\$M] – 2011-2020	172
Figure 44 - EMEA Critical Infrastructure IVS Based Security Market AGR [%] - 2012-2020	173
Figure 45 - Cargo Theft Percentage by Product Type.....	174
Figure 46 - EMEA Transportation & Logistics IVS & VA Market [\$M] – 2011-2020	178
Figure 47 - EMEA Transportation & Logistics IVS & VA Market AGR [%] - 2012-2020.....	179
Figure 48 - Layered Aviation Security Infrastructure	181
Figure 49 - Airport Security Roadmap	182
Figure 50 - Global Air Travel Growth -1980-2012	184
Figure 51 - Boeing Global Air Travel Growth Forecast by Geography [%] - 2012-2020.....	185
Figure 52 - Global Air Traffic Forecast [\$B] - 2011-2031	186
Figure 53 - The Global Air Cargo Growth [\$B] - 1980-2011	186
Figure 54 - Drivers of Air Travel Growth.....	187
Figure 55 - Maritime Security – Mixed Mode Approach.....	189
Figure 56 - Seaport Area Key Port Stakeholders	193
Figure 57 - EMEA Aviation & Maritime IVS Based Security Market [\$M] – 2011-2020	195
Figure 58 - EMEA Aviation & Maritime IVS Based Security Market AGR [%] - 2012-2020.....	196
Figure 59 - Smart City Platform Services	198
Figure 60 - Safe City vs. Smart City	199
Figure 61 - Smart City vs. Safe City Overlapping IVS & VA Based Missions	200
Figure 62 - Safe City Architecture & Functions	201
Figure 63 - EMEA Safe Cities & Smart Cities IVS & VA Market [\$M] – 2011-2020	204
Figure 64 - EMEA Safe Cities & Smart Cities IVS & VA Market AGR [%] - 2012-2020.....	205
Figure 65 - EMEA Border IVS Based Security Market [\$M] – 2011-2020	210
Figure 66 - EMEA Border IVS Based Security Market AGR [%] - 2012-2020	211

Figure 67 - Buildings Fused Multi-Modality Security System Architecture.....	212
Figure 68 - EMEA Commercial & Public Buildings IVS & VA Market [\$M] – 2011-2020	214
Figure 69 - EMEA Commercial & Public Buildings IVS & VA Market AGR [%] - 2012-2020.....	215
Figure 70 - EMEA Entertainment & Casinos IVS Based Security Market [\$M] – 2011-2020	218
Figure 71 - EMEA Entertainment & Casinos IVS Based Security Market AGR [%] - 2012-2020.....	219
Figure 72 - Retail Customers' Demographics IVS Scenario.....	224
Figure 73 - EMEA Retail Industry IVS & VA Market [\$M] – 2011-2020	227
Figure 74 - EMEA Retail Industry IVS & VA Market AGR [%] - 2012- 2020	228
Figure 75 - Residential Security Penetration	229
Figure 76 - EMEA Residential IVS Based Security Market [\$M] – 2011- 2020	232
Figure 77 - EMEA Residential IVS Based Security Market AGR [%] - 2012-2020	233
Figure 78 - Public Event Video Management System Architecture	234
Figure 79 - EMEA Other Applications IVS & VA Market [\$M] – 2011- 2020	236
Figure 80 - EMEA Other Applications IVS & VA Market AGR [%] - 2012- 2020	237

Homeland Security Research Corp.

***Europe, Middle East, and Africa
Video Analytics,
Intelligent Video Surveillance & ISR:
Technologies, Industry & Market***

2015-2020

Volume 2

Table of Contents

NATIONAL MARKETS	26
1 U.K. IVS, ISR & VA Market - 2015-2020.....	26
1.1 U.K. Intelligent Video Surveillance, ISR & Video Analytics	
Market Background	26
1.1.1 Facts & Figures.....	26
1.1.2 U.K. Overview	26
1.1.3 U.K. Economy	27
1.1.4 U.K. Security Market	27
1.1.5 Crime in the U.K.....	28
1.1.6 Terror in the U.K.....	28
1.1.7 U.K. Police	29
1.1.8 U.K. HLS & Public Safety Agencies	31
1.2 The U.K. Intelligent Video Surveillance, ISR & Video Analytics	
Market	32
1.2.1 Market Forecast - 2015-2020.....	32
1.2.2 Market Dynamics - 2015-2020	34
1.2.3 Market Share - 2015-2020	35
1.3 U.K. IVS, ISR & Video Analytics Market by Revenue Source	36
1.3.1 Market Forecast by Revenue Source – 2011-2020.....	36
1.3.2 Market Dynamics by Revenue Source – 2011-2020.....	37
1.3.3 Market Breakdown by Revenue Source – 2011-2020.....	38
2 Sweden IVS, ISR & VA Market - 2015-2020	39
2.1 Sweden Intelligent Video Surveillance, ISR & Video Analytics	
Market Background	39
2.1.1 Facts & Figures.....	39
2.1.2 Sweden Overview	39
2.1.3 Sweden Economy	40
2.1.4 Sweden Security Market	40
2.1.5 Crime in Sweden.....	41
2.1.6 Terror in Sweden	41
2.1.7 Swedish Police.....	42
2.2 Sweden Intelligent Video Surveillance, ISR & Video Analytics	
Market	43
2.2.1 Market Forecast - 2015-2020.....	43
2.2.2 Market Dynamics - 2015-2020	45
2.3 Sweden IVS, ISR & Video Analytics Market by Revenue	
Source.....	46
2.3.1 Market Forecast by Revenue Source – 2011-2020.....	46
2.3.2 Market Dynamics by Revenue Source – 2011-2020.....	47
2.3.3 Market Breakdown by Revenue Source – 2011-2020.....	48

3 Denmark IVS, ISR & VA Market - 2015-2020	49
3.1 Denmark Intelligent Video Surveillance, ISR & Video Analytics Market Background	49
3.1.1 Facts & Figures.....	49
3.1.2 Denmark Overview	49
3.1.3 Denmark Economy	49
3.1.4 Denmark Security Market.....	50
3.1.5 Crime in Denmark	51
3.1.6 Terror in Denmark	51
3.1.7 Denmark Police.....	51
3.2 Denmark Intelligent Video Surveillance, ISR & Video Analytics Market	53
3.2.1 Market Forecast - 2015-2020.....	53
3.2.2 Market Dynamics - 2015-2020.....	55
3.3 Denmark IVS, ISR & Video Analytics Market by Revenue Source.....	56
3.3.1 Market Forecast by Revenue Source – 2011-2020.....	56
3.3.2 Market Dynamics by Revenue Source – 2011-2020.....	57
3.3.3 Market Breakdown by Revenue Source – 2011-2020.....	58
4 Netherlands IVS, ISR & VA Market - 2015-2020	59
4.1 Netherlands Intelligent Video Surveillance, ISR & Video Analytics Market Background	59
4.1.1 Facts & Figures.....	59
4.1.2 Holland Overview	59
4.1.3 Holland Economy	59
4.1.4 Netherlands Security Market.....	60
4.1.5 Crime in Holland	60
4.1.6 Terror in Holland	61
4.1.7 Netherlands Police.....	61
4.1.8 Netherlands HLS & Public Safety Agencies.....	63
4.2 Netherlands Intelligent Video Surveillance, ISR & Video Analytics Market.....	64
4.2.1 Market Forecast - 2015-2020.....	64
4.2.2 Market Dynamics - 2015-2020.....	66
4.3 Netherlands IVS, ISR & Video Analytics Market by Revenue Source.....	67
4.3.1 Market Forecast by Revenue Source – 2011-2020.....	67
4.3.2 Market Dynamics by Revenue Source – 2011-2020.....	68
4.3.3 Market Breakdown by Revenue Source – 2011-2020.....	69
5 Belgium IVS, ISR & VA Market - 2015-2020.....	70
5.1 Belgium Intelligent Video Surveillance, ISR & Video Analytics Market Background	70
5.1.1 Facts & Figures.....	70
5.1.2 Belgium Overview	70
5.1.3 Belgium Economy	70
5.1.4 Belgium Security Market	71

5.1.5	Crime in Belgium.....	71
5.1.6	Belgium Police	72
5.1.7	Belgium HLS & Public Safety Agencies	74
5.2	Belgium Intelligent Video Surveillance, ISR & Video Analytics Market	76
5.2.1	Market Forecast - 2015-2020.....	76
5.2.2	Market Dynamics - 2015-2020.....	78
5.3	Belgium IVS, ISR & Video Analytics Market by Revenue Source.....	79
5.3.1	Market Forecast by Revenue Source – 2011-2020.....	79
5.3.2	Market Dynamics by Revenue Source – 2011-2020.....	80
5.3.3	Market Breakdown by Revenue Source – 2011-2020.....	81
6	Germany IVS, ISR & VA Market - 2015-2020	82
6.1	Germany Intelligent Video Surveillance, ISR & Video Analytics Market Background	82
6.1.1	Facts & Figures.....	82
6.1.2	Germany Geopolitical Outlook	82
6.1.3	Germany Economy	83
6.1.4	Germany Security Market	84
6.1.5	Crime in Germany	84
6.1.6	Terror in Germany.....	85
6.1.7	German Police	86
6.1.8	Germany HLS & Public Safety Agencies	89
6.2	Germany Intelligent Video Surveillance, ISR & Video Analytics Market	90
6.2.1	Market Forecast - 2015-2020.....	90
6.2.2	Market Dynamics - 2015-2020.....	92
6.3	Germany IVS, ISR & Video Analytics Market by Revenue Source.....	93
6.3.1	Market Forecast by Revenue Source – 2011-2020.....	93
6.3.2	Market Dynamics by Revenue Source – 2011-2020.....	94
6.3.3	Market Breakdown by Revenue Source – 2011-2020.....	95
7	France IVS, ISR & VA Market - 2015-2020	96
7.1	France Intelligent Video Surveillance, ISR & Video Analytics Market Background	96
7.1.1	Facts & Figures.....	96
7.1.2	France Overview.....	96
7.1.3	France Economy	97
7.1.4	France Security Market.....	98
7.1.5	France HLS Market.....	98
7.1.6	Terror & Crime in France	99
7.1.7	French Police	99
7.1.8	France HLS & Public Safety Agencies	100
7.2	France Intelligent Video Surveillance, ISR & Video Analytics Market	101
7.2.1	Market Forecast - 2015-2020.....	101

7.2.2	Market Dynamics - 2015-2020	103
7.3	France IVS, ISR & Video Analytics Market by Revenue Source	104
7.3.1	Market Forecast by Revenue Source – 2011-2020.....	104
7.3.2	Market Dynamics by Revenue Source – 2011-2020.....	105
7.3.3	Market Breakdown by Revenue Source – 2011-2020.....	106
8	Spain IVS, ISR & VA Market - 2015-2020.....	107
8.1	Spain Intelligent Video Surveillance, ISR & Video Analytics Market Background	107
8.1.1	Facts & Figures.....	107
8.1.2	Spain Overview.....	107
8.1.3	Spain Economy.....	107
8.1.4	Spain Security Market.....	108
8.1.5	Crime in Spain	108
8.1.6	Terror in Spain	109
8.1.7	Spain Police	110
8.1.8	Spain HLS & Public Safety Agencies.....	113
8.2	Spain Intelligent Video Surveillance, ISR & Video Analytics Market	114
8.2.1	Market Forecast - 2015-2020.....	114
8.2.2	Market Dynamics - 2015-2020.....	116
8.3	Spain IVS, ISR & Video Analytics Market by Revenue Source	117
8.3.1	Market Forecast by Revenue Source – 2011-2020.....	117
8.3.2	Market Dynamics by Revenue Source – 2011-2020.....	118
8.3.3	Market Breakdown by Revenue Source – 2011-2020.....	119
9	Italy IVS, ISR & VA Market - 2015-2020.....	120
9.1	Italy Intelligent Video Surveillance, ISR & Video Analytics Market Background	120
9.1.1	Facts & Figures.....	120
9.1.2	Italy Overview	120
9.1.3	Italy Economy	120
9.1.4	Italy Security Market	121
9.1.5	Crime in Italy	123
9.1.6	Terror in Italy	123
9.1.7	Italian Police.....	124
9.1.8	Italy HLS & Public Safety Agencies	124
9.2	Italy Intelligent Video Surveillance, ISR & Video Analytics Market	127
9.2.1	Market Forecast - 2015-2020.....	127
9.2.2	Market Dynamics - 2015-2020.....	129
9.3	Italy IVS, ISR & Video Analytics Market by Revenue Source	130
9.3.1	Market Forecast by Revenue Source – 2011-2020.....	130
9.3.2	Market Dynamics by Revenue Source – 2011-2020.....	131
9.3.3	Market Breakdown by Revenue Source – 2011-2020.....	132
10	Austria IVS, ISR & VA Market - 2015-2020	133
10.1	Austria Intelligent Video Surveillance, ISR & Video Analytics Market Background	133

10.1.1	Facts & Figures.....	133
10.1.2	Austria Overview.....	133
10.1.3	Austria Economy	133
10.1.4	Austria Security Market.....	134
10.1.5	Crime in Austria	135
10.1.6	Terror in Austria	135
10.1.7	Austrian Police	136
10.2	Austria Intelligent Video Surveillance, ISR & Video Analytics Market	138
10.2.1	Market Forecast - 2015-2020.....	138
10.2.2	Market Dynamics - 2015-2020.....	140
10.3	Austria IVS, ISR & Video Analytics Market by Revenue Source	141
10.3.1	Market Forecast by Revenue Source – 2011-2020.....	141
10.3.2	Market Dynamics by Revenue Source – 2011-2020.....	142
10.3.3	Market Breakdown by Revenue Source – 2011-2020.....	143
11	Czech Republic IVS, ISR & VA Market - 2015-2020	144
11.1	Czech Republic Intelligent Video Surveillance, ISR & Video Analytics Market Background.....	144
11.1.1	Facts & Figures.....	144
11.1.2	Czech Republic Overview.....	144
11.1.3	Czech Republic Economy	144
11.1.4	Czech Republic Security Market.....	145
11.1.5	Crime in the Czech Republic.....	145
11.1.6	Czech Republic Police	146
11.2	Czech Republic Intelligent Video Surveillance, ISR & Video Analytics Market.....	146
11.2.1	Market Forecast - 2015-2020.....	146
11.2.2	Market Dynamics - 2015-2020	148
11.3	Czech Republic IVS, ISR & Video Analytics Market by Revenue Source.....	148
11.3.1	Market Forecast by Revenue Source – 2011-2020.....	148
11.3.2	Market Dynamics by Revenue Source – 2011-2020.....	150
11.3.3	Market Breakdown by Revenue Source – 2011-2020.....	151
12	Poland IVS, ISR & VA Market - 2015-2020.....	152
12.1	Poland Intelligent Video Surveillance, ISR & Video Analytics Market Background	152
12.1.1	Facts & Figures.....	152
12.1.2	Poland Overview.....	152
12.1.3	Poland Economy	152
12.1.4	Security Market in Poland	153
12.1.5	Crime in Poland	154
12.1.6	Terror in Poland	154
12.1.7	Poland Police	154
12.1.8	Poland HLS & Public Safety Agencies	155
12.2	Poland Intelligent Video Surveillance, ISR & Video Analytics Market	155

12.2.1	Market Forecast - 2015-2020.....	155
12.2.2	Market Dynamics - 2015-2020.....	157
12.3	Poland IVS, ISR & Video Analytics Market by Revenue Source	157
12.3.1	Market Forecast by Revenue Source – 2011-2020.....	157
12.3.2	Market Dynamics by Revenue Source – 2011-2020.....	159
12.3.3	Market Breakdown by Revenue Source – 2011-2020.....	160
13	Russia IVS, ISR & VA Market - 2015-2020	161
13.1	Russia Intelligent Video Surveillance, ISR & Video Analytics Market Background	161
13.1.1	Facts & Figures.....	161
13.1.2	Russia Overview	161
13.1.3	Russia Economy	161
13.1.4	Russia Security Market.....	162
13.1.5	Crime in Russia.....	163
13.1.6	Terror in Russia	163
13.1.7	Russia Police	164
13.1.8	Russia HLS & Public Safety Agencies	169
13.2	Russia Intelligent Video Surveillance, ISR & Video Analytics Market	170
13.2.1	Market Forecast - 2015-2020.....	170
13.2.2	Market Dynamics - 2015-2020.....	172
13.3	Russia IVS, ISR & Video Analytics Market by Revenue Source	172
13.3.1	Market Forecast by Revenue Source – 2011-2020.....	172
13.3.2	Market Dynamics by Revenue Source – 2011-2020.....	174
13.3.3	Market Breakdown by Revenue Source – 2011-2020.....	175
14	Turkey IVS, ISR & VA Market - 2015-2020	176
14.1	Turkey Intelligent Video Surveillance, ISR & Video Analytics Market Background	176
14.1.1	Facts & Figures.....	176
14.1.2	Overview	176
14.1.3	Turkey's Economy	177
14.1.4	Turkey's Threat Assessment.....	177
14.1.5	Turkey Security Market	178
14.1.6	Crime in Turkey.....	180
14.1.7	Terror in Turkey	180
14.1.8	Turkish Police	182
14.1.9	Turkey HLS & Public Safety Agencies	183
14.2	Turkey Intelligent Video Surveillance, ISR & Video Analytics Market	184
14.2.1	Market Forecast - 2015-2020.....	184
14.2.2	Market Dynamics - 2015-2020.....	186
14.3	Turkey IVS, ISR & Video Analytics Market by Revenue Source	187
14.3.1	Market Forecast by Revenue Source – 2011-2020.....	187
14.3.2	Market Dynamics by Revenue Source – 2011-2020.....	188
14.3.3	Market Breakdown by Revenue Source – 2011-2020.....	189

15	Israel IVS, ISR & VA Market - 2015-2020	190
15.1	Israel Intelligent Video Surveillance, ISR & Video Analytics Market Background	190
15.1.1	Facts & Figures.....	190
15.1.2	Overview	190
15.1.3	Economy	190
15.1.4	First Responders.....	191
15.1.5	Israel Homeland Security Industry	192
15.1.6	Israel Defense Forces	194
15.1.7	Crime in Israel.....	194
15.1.8	Terror in Israel.....	195
15.1.9	Israel Police	197
15.1.10	Israeli HLS, Public Safety & Security Agencies.....	198
15.2	Israel Intelligent Video Surveillance, ISR & Video Analytics Market	199
15.2.1	Market Forecast - 2015-2020.....	199
15.2.2	Market Dynamics - 2015-2020.....	201
15.3	Israel IVS, ISR & Video Analytics Market by Revenue Source	201
15.3.1	Market Forecast by Revenue Source – 2011-2020.....	201
15.3.2	Market Dynamics by Revenue Source – 2011-2020.....	203
15.3.3	Market Breakdown by Revenue Source – 2011-2020.....	204
16	Saudi Arabia IVS, ISR & VA Market - 2015-2020.....	205
16.1	Saudi Arabia Intelligent Video Surveillance, ISR & Video Analytics Market Background	205
16.1.1	Facts & Figures.....	208
16.1.2	Overview	209
16.1.3	Economy	209
16.1.4	Crime in Saudi Arabia	210
16.1.5	Terror in Saudi Arabia	210
16.1.6	Saudi Arabia Police.....	211
16.1.7	Saudi Arabia HLS & Public Safety Agencies.....	213
16.2	Saudi Arabia Intelligent Video Surveillance, ISR & Video Analytics Market	214
16.2.1	Market Forecast - 2015-2020.....	214
16.2.2	Market Dynamics - 2015-2020	216
16.3	Saudi Arabia IVS, ISR & Video Analytics Market by Revenue Source	217
16.3.1	Market Forecast by Revenue Source – 2011-2020.....	217
16.3.2	Market Dynamics by Revenue Source – 2011-2020.....	218
16.3.3	Market Breakdown by Revenue Source – 2011-2020.....	219
17	UAE IVS, ISR & VA Market - 2015-2020	220
17.1	UAE Market Background.....	220
17.1.1	Facts & Figures.....	220
17.1.2	Overview	220
17.1.3	UAE Economy.....	220
17.1.4	UAE Security Market.....	221

17.1.5 Crime in the UAE	224
17.1.6 Terror in the UAE	225
17.1.7 Dubai Police.....	225
17.1.8 UAE HLS & Public Safety Agencies.....	228
17.2 UAE Intelligent Video Surveillance, ISR & Video Analytics Market	228
17.2.1 Market Forecast - 2015-2020.....	228
17.2.2 Market Dynamics - 2015-2020.....	230
17.3 UAE IVS, ISR & Video Analytics Market by Revenue Source	230
17.3.1 Market Forecast by Revenue Source – 2011-2020.....	230
17.3.2 Market Dynamics by Revenue Source – 2011-2020.....	232
17.3.3 Market Breakdown by Revenue Source – 2011-2020.....	233
18 Qatar IVS, ISR & VA Market - 2015-2020	234
18.1 Qatar Intelligent Video Surveillance, ISR & Video Analytics Market Background	234
18.1.1 Facts & Figures.....	234
18.1.2 Qatar Overview	234
18.1.3 Qatar Economy	234
18.1.4 Qatar Security Market	235
18.1.5 Crime in Qatar.....	235
18.1.6 Terror in Qatar	237
18.1.7 Qatar Police	237
18.1.8 Police/Security Agencies.....	238
18.2 Qatar Intelligent Video Surveillance, ISR & Video Analytics Market	238
18.2.1 Market Forecast - 2015-2020.....	238
18.2.2 Market Dynamics - 2015-2020.....	240
18.3 Qatar IVS, ISR & Video Analytics Market by Revenue Source	240
18.3.1 Market Forecast by Revenue Source – 2011-2020.....	240
18.3.2 Market Dynamics by Revenue Source – 2011-2020.....	242
18.3.3 Market Breakdown by Revenue Source – 2011-2020.....	243
19 Kuwait IVS, ISR & VA Market - 2015-2020	244
19.1 Kuwait Intelligent Video Surveillance, ISR & Video Analytics Market Background	244
19.1.1 Facts & Figures.....	244
19.1.2 Kuwait Overview	244
19.1.3 Kuwait Economy	244
19.1.4 Crime in Kuwait.....	245
19.1.5 Terror in Kuwait.....	246
19.1.6 Kuwait Police Forces	246
19.1.7 Kuwait HLS & Public Safety Agencies	246
19.2 Kuwait Intelligent Video Surveillance, ISR & Video Analytics Market	248
19.2.1 Market Forecast - 2015-2020.....	248
19.2.2 Market Dynamics - 2015-2020.....	250
19.3 Kuwait IVS, ISR & Video Analytics Market by Revenue Source.....	250

19.3.1	Market Forecast by Revenue Source – 2011-2020.....	250
19.3.2	Market Dynamics by Revenue Source – 2011-2020.....	252
19.3.3	Market Breakdown by Revenue Source – 2011-2020.....	253
20	Iraq IVS, ISR & VA Market - 2015-2020	254
20.1	Iraq Intelligent Video Surveillance, ISR & Video Analytics Market Background	254
20.1.1	Facts & Figures.....	254
20.1.2	Overview.....	254
20.1.3	Iraq Economy.....	256
20.1.4	Threat Assessment	257
20.1.5	Crime in Iraq	259
20.1.6	Terror in Iraq	260
20.1.7	Iraq Defense Forces	261
20.1.8	Iraq Police Forces	262
20.1.9	National Law Enforcement Bodies	262
20.2	Iraq Intelligent Video Surveillance, ISR & Video Analytics Market	263
20.2.1	Market Forecast - 2015-2020.....	263
20.2.2	Market Dynamics - 2015-2020	265
20.3	Iraq IVS, ISR & Video Analytics Market by Revenue Source	265
20.3.1	Market Forecast by Revenue Source – 2011-2020.....	265
20.3.2	Market Dynamics by Revenue Source – 2011-2020.....	267
20.3.3	Market Breakdown by Revenue Source – 2011-2020.....	268
21	Nigeria IVS, ISR & VA Market - 2015-2020.....	269
21.1	Nigeria Intelligent Video Surveillance, ISR & Video Analytics Market Background	269
21.1.1	Facts & Figures.....	269
21.1.2	Overview.....	269
21.1.3	Nigeria Economy.....	270
21.1.4	Nigeria Security Market.....	271
21.1.5	Crime in Nigeria	271
21.1.6	Terror in Nigeria	272
21.1.7	Nigeria Police.....	273
21.2	Nigeria Intelligent Video Surveillance, ISR & Video Analytics Market	277
21.2.1	IVS, ISR and VA Market Forecast - 2015-2020	277
21.2.2	Market Dynamics - 2015-2020	279
21.3	Nigeria IVS, ISR & Video Analytics Market by Revenue Source	279
21.3.1	Market Forecast by Revenue Source – 2011-2020.....	279
21.3.2	Market Dynamics by Revenue Source – 2011-2020.....	281
21.3.3	Market Breakdown by Revenue Source – 2011-2020.....	282
22	South Africa IVS, ISR & VA Market - 2015-2020.....	283
22.1	South Africa Intelligent Video Surveillance, ISR & Video Analytics Market Background	283
22.1.1	Facts & Figures.....	283
22.1.2	South Africa Economy	283

22.1.3 Crime in South Africa	284
22.1.4 Terror in South Africa	285
22.1.5 South Africa Police	286
22.2 South Africa Intelligent Video Surveillance, ISR & Video Analytics Market	287
22.2.1 IVS, ISR and VA Market Forecast - 2015-2020	287
22.2.2 Market Dynamics - 2015-2020	289
22.3 South Africa IVS, ISR & Video Analytics Market by Revenue Source	289
22.3.1 Market Forecast by Revenue Source – 2011-2020	289
22.3.2 Market Dynamics by Revenue Source – 2011-2020	291
22.3.3 Market Breakdown by Revenue Source – 2011-2020	292
23 Other EMEA Countries IVS, ISR & VA Market - 2015-2020	293
23.1 Other EMEA Countries Intelligent Video Surveillance, ISR & Video Analytics Market	293
23.1.1 IVS, ISR and VA Market Forecast - 2015-2020	293
23.1.2 Market Dynamics - 2015-2020	295
23.2 Other EMEA Countries IVS, ISR & Video Analytics Market by Revenue Source	295
23.2.1 Market Forecast by Revenue Source – 2011-2020	295
23.2.2 Market Dynamics by Revenue Source – 2011-2020	297
23.2.3 Market Breakdown by Revenue Source – 2011-2020	298
APPENDICES	299
24 Appendix A: Open Network Video Interface Forum (ONVIF) Standard	299
24.1 ONVIF	299
24.2 ONVIF Membership	299
24.3 ONVIF Video Surveillance Interoperability Standards	300
25 Appendix B: Markov IVS Decision Algorithms	302
25.1 Background	302
26 Appendix C: The Global Video Security Market – 2015-2022	308
26.1 Video Security Market Background	308
26.2 Video Surveillance: HLS & Public Safety Applications	316
26.3 Video Surveillance: Business Opportunities & Challenges	318
26.4 Video Security Industry: SWOT Analysis	319
26.4.1 Strengths	319
26.4.2 Weaknesses	320
26.4.3 Opportunities	321
26.4.4 Threats	321
26.5 Video Security Surveillance Market – 2011-2022	322
26.5.1 Video Security Surveillance: Market Drivers	322
26.5.2 Video Security Surveillance: Market Inhibitors	323
26.6 Consolidated Video Security Surveillance Market – 2011-2022	323
26.6.1 Video Security Surveillance Market Dynamics – 2011-2022	324
26.6.2 Market Breakdown – 2011-2022	325

26.6.3	Sales – 2011-2022.....	326
26.6.4	Video Security Surveillance, After-Sale Maintenance, Upgrade and Refurbishment Revenues – 2011-2022.....	328
27	Appendix D: Covert CCTV Walk-by People Screening Technologies	330
27.1	Walk-by Fourier Transform Infrared (FTIR) Spectroscopy Systems	330
27.2	Covert Walk-by CCTV Based Detection Corridors	331
27.3	Fused Standoff Video Surveillance and Biometrics.....	333
27.3.1	Example: IOM PassPort™	334
28	Appendix E: CCTV Based People Screening	336
28.1	Fused Video Monitoring and Biometrics.....	337
28.2	CCTV Biometric Face Recognition Identification vs. Verification	337
28.3	Performance of CCTV Based Biometric Recognition Technologies.....	338
28.4	Tag and Track – Intelligent Video Surveillance	339
28.5	TSA Advanced Video Surveillance Program	339
29	Appendix F: The VCA, ISR & Video Analytics Systems and Devices Industry.....	340
29.1	Globalization of the Industry.....	340
29.2	Classification of the Industry Business and Industrial Activities	340
29.3	Barriers to Market Entry.....	341
29.4	Industry Supply-Side & Demand-Side Analysis.....	342
30	Appendix G: VCA, ISR & Video Analytics Industry: Business Models & Strategies	345
30.1	Variable Economic Conditions	345
30.2	Market Tiers	345
30.3	Defense Primes & Mega Corporations' Inroads into the Market.....	345
30.4	Entry Strategies toward the VCA, ISR & Video Analytics Arena	346
30.5	Price Elasticity	347
30.6	Mergers and Acquisitions (M&A)	349
31	Appendix H: The U.S. National Intelligence Council 2020 Global Landscape	350
31.1	Short-Term Global Geopolitical Outlook.....	354
32	SCOPE, METHODOLOGY AND DISCLAIMER	358
32.1	Research Scope.....	358
32.2	Research Methodology	359
32.3	Disclaimer & Copyright.....	361

List of Tables

Table 1 - U.K. Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	32
Table 2 - U.K. Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	36
Table 3 - U.K. Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	37
Table 4 - Sweden Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	43
Table 5 - Sweden Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	46
Table 6 - Sweden Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	47
Table 7 - Denmark Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	53
Table 8 - Denmark Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	56
Table 9 - Denmark Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	57
Table 10 - Netherlands Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020	64
Table 11 - Netherlands Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	67
Table 12 - Netherlands Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011- 2020	68
Table 13 - Belgium Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	76
Table 14 - Belgium Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	79
Table 15 - Belgium Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	80
Table 16 - Crime Statistics for Germany – 2011-2012	85
Table 17 - Germany Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020	90
Table 18 - Germany Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	93
Table 19 - Germany Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011- 2020	94
Table 20 - France Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	101
Table 21 - France Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	104

Table 22 - France Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	105
Table 23 - Crime Statistics in Spain – Jan-Sept 2013	109
Table 24 - Spain Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	114
Table 25 - Spain Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	117
Table 26 - Spain Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	118
Table 27 - Italy Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	127
Table 28 - Italy Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	130
Table 29 - Italy Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	131
Table 30 - Austrian Import Market Shares for Security and Safety Equipment.....	134
Table 31 - Austria Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	138
Table 32 - Austria Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	141
Table 33 - Austria Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	142
Table 34 - Czech Republic Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	146
Table 35 - Czech Republic Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	149
Table 36 - Czech Republic Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011- 2020	150
Table 37 - Poland Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	156
Table 38 - Poland Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	158
Table 39 - Poland Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	159
Table 40 - Russia Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	170
Table 41 - Russia Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	173
Table 42 - Russia Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	174
Table 43 - Turkey Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	184
Table 44 - Turkey Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	187

Table 45 - Turkey Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	188
Table 46 - Israel Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	200
Table 47 - Israel Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	202
Table 48 - Israel Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	203
Table 49 - Saudi Arabia Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	214
Table 50 - Saudi Arabia Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	217
Table 51 - Saudi Arabia Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011- 2020	218
Table 52 - UAE Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	229
Table 53 - UAE Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	231
Table 54 - UAE Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	232
Table 55 - Qatar Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	239
Table 56 - Qatar Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	241
Table 57 - Qatar Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	242
Table 58 - Kuwait Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	248
Table 59 - Kuwait Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	251
Table 60 - Kuwait Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	252
Table 61 - Iraq Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	263
Table 62 - Iraq Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	266
Table 63 - Iraq Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	267
Table 64 - Nigeria Police Departments & Responsibilities	274
Table 65 - Nigeria Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	277
Table 66 - Nigeria Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	280
Table 67 - Nigeria Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	281

Table 68 - South Africa Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020	287
Table 69 - South Africa Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	290
Table 70 - South Africa Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	291
Table 71 - Other EMEA Countries Intelligent Video Surveillance, ISR & Video Analytics Market [\$M], AGR [%] and Market Share [%] - 2011-2020.....	293
Table 72 - Other EMEA Countries Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	296
Table 73 - Other EMEA Countries Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	297
Table 74 - Video Surveillance Market: Business Opportunities	318
Table 75 - Global Video Security surveillance Market [\$B] by: Sales and After-Sale Revenues – 2011-2022	323
Table 76 - Global Video Security Surveillance Market AGR [%] by: Sales and After-Sale Revenues – 2011-2022	324
Table 77 - Global Video Security Market Share [%] by: Sales and After-Sale Revenues – 2011-2022.....	325
Table 78 - Global Video Security Sales: Market [\$B] and AGR [%] – 2011-2022	326
Table 79 - Global Video Security Surveillance, After-Sale Revenues: Market [\$B] and AGR [%] – 2011-2022	328
Table 80 - Retica Standoff Biometric; System Performance	333
Table 81 - Short Range Standoff Biometric Portal: IOM PassPort™ Performance.....	334
Table 82 - The National Intelligence Council Mapping the 2020 Global Future.....	350

List of Figures

Figure 1 - U.K. HLS & Public Safety Agencies Organogram	31
Figure 2 - U.K. Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	33
Figure 3 - U.K. Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	34
Figure 4 - U.K. Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] - 2011-2020	35
Figure 5 - U.K. Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020	36
Figure 6 - U.K. Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	37
Figure 7 - U.K. Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	38
Figure 8 - Sweden Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	44
Figure 9 - Sweden Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	45
Figure 10 - Sweden Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020	46
Figure 11 - Sweden Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011- 2020	47
Figure 12 - Sweden Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011- 2020	48
Figure 13 - Denmark Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	54
Figure 14 - Denmark Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	55
Figure 15 - Denmark Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020	56
Figure 16 - Denmark Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011- 2020	57
Figure 17 - Denmark Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011- 2020	58
Figure 18 - Netherlands HLS & Public Safety Agencies Organogram	63
Figure 19 - Netherlands Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	65
Figure 20 - Netherlands Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	66
Figure 21 - Netherlands Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020	67

Figure 22 - Netherlands Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	68
Figure 23 - Netherlands Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	69
Figure 24 - Belgium HLS & Public Safety Agencies Organogram	75
Figure 25 - Belgium Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020.....	77
Figure 26 - Belgium Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020.....	78
Figure 27 - Belgium Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	79
Figure 28 - Belgium Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	80
Figure 29 - Belgium Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	81
Figure 30 - Germany HLS & Public Safety Agencies Organogram	89
Figure 31 - Germany Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020.....	91
Figure 32 - Germany Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020.....	92
Figure 33 - Germany Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	93
Figure 34 - Germany Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	94
Figure 35 - Germany Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	95
Figure 36 - France HLS & Public Safety Agencies Organogram	100
Figure 37 - France Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	102
Figure 38 - France Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	103
Figure 39 - France Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	104
Figure 40 - France Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	105
Figure 41 - France Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	106
Figure 42 - Spain HLS & Public Safety Agencies Organogram.....	113
Figure 43 - Spain Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	115

Figure 44 - Spain Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020.....	116
Figure 45 - Spain Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	117
Figure 46 - Spain Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	118
Figure 47 - Spain Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	119
Figure 48 - Italy HLS & Public Safety Agencies Organogram	126
Figure 49 - Italy Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020.....	128
Figure 50 - Italy Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	129
Figure 51 - Italy Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	130
Figure 52 - Italy Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	131
Figure 53 - Italy Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	132
Figure 54 - Austria Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	139
Figure 55 - Austria Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	140
Figure 56 - Austria Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	141
Figure 57 - Austria Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	142
Figure 58 - Austria Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	143
Figure 59 - Czech Republic Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020.....	147
Figure 60 - Czech Republic Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020.....	148
Figure 61 - Czech Republic Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	149
Figure 62 - Czech Republic Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011- 2020	150
Figure 63 - Czech Republic Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011- 2020	151
Figure 64 - Poland Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	156
Figure 65 - Poland Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	157
Figure 66 - Poland Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	158

Figure 67 - Poland Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	159
Figure 68 - Poland Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020.....	160
Figure 69 - Russia Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020.....	171
Figure 70 - Russia Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020.....	172
Figure 71 - Russia Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	173
Figure 72 - Russia Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	174
Figure 73 - Russia Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020.....	175
Figure 74 - Turkey HLS & Public Safety Agencies Organogram	183
Figure 75 - Turkey Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020.....	185
Figure 76 - Turkey Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020.....	186
Figure 77 - Turkey Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	187
Figure 78 - Turkey Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	188
Figure 79 - Turkey Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020.....	189
Figure 80 - Israel HLS & Public Safety Agencies Organogram	199
Figure 81 - Israel Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020.....	200
Figure 82 - Israel Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020.....	201
Figure 83 - Israel Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	202
Figure 84 - Israel Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	203
Figure 85 - Israel Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020.....	204
Figure 86 - Three Tiers of Saudi Security Infrastructure.....	208
Figure 87 - The Saudi Government Security Organization Chart	213
Figure 88 - Saudi Arabia Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020.....	215
Figure 89 - Saudi Arabia Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020.....	216
Figure 90 - Saudi Arabia Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	217
Figure 91 - Saudi Arabia Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011- 2020	218

Figure 92 - Saudi Arabia Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	219
Figure 93 - Dubai Police Organization Chart.....	227
Figure 94 - UAE HLS & Public Safety Agencies Organogram.....	228
Figure 95 - UAE Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	229
Figure 96 - UAE Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	230
Figure 97 - UAE Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	231
Figure 98 - UAE Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	232
Figure 99 - UAE Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	233
Figure 100 - Qatar Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	239
Figure 101 - Qatar Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	240
Figure 102 - Qatar Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	241
Figure 103 - Qatar Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020.....	242
Figure 104 - Qatar Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	243
Figure 105 - Kuwait Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020.....	249
Figure 106 - Kuwait Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020.....	250
Figure 107 - Kuwait Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	251
Figure 108 - Kuwait Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	252
Figure 109 - Kuwait Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	253
Figure 110 - Iraq Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	264
Figure 111 - Iraq Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	265
Figure 112 - Iraq Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	266
Figure 113 - Iraq Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	267
Figure 114 - Iraq Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	268

Figure 115 - Nigeria Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020.....	278
Figure 116 - Nigeria Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020.....	279
Figure 117 - Nigeria Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	280
Figure 118 - Nigeria Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	281
Figure 119 - Nigeria Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	282
Figure 120 - South Africa Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020.....	288
Figure 121 - South Africa Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020.....	289
Figure 122 - South Africa Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020.....	290
Figure 123 - South Africa Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	291
Figure 124 - South Africa Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	292
Figure 125 - Other EMEA Countries Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] - 2011-2020	294
Figure 126 - Other EMEA Countries Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] - 2011-2020	295
Figure 127 - Other EMEA Countries Intelligent Video Surveillance, ISR & Video Analytics Market [\$M] by Revenue Segment – 2011-2020	296
Figure 128 - Other EMEA Countries Intelligent Video Surveillance, ISR & Video Analytics Market AGR [%] by Revenue Segment – 2011-2020	297
Figure 129 - Other EMEA Countries Intelligent Video Surveillance, ISR & Video Analytics Market Share [%] by Revenue Segment – 2011-2020	298
Figure 130 - A Simple MDP with Three States and Two Actions.....	302
Figure 131 - Video Surveillance Technologies Timeline.....	308
Figure 132 - A Wireless Video Surveillance System	314
Figure 133 - Global Video Security Surveillance Market [\$B] by: Sales and After-Sale Revenues – 2011-2022	324
Figure 134 - Global Video Security Market AGR [%] by: Sales and After-Sale Revenues – 2011-2022	325
Figure 135 - Global Video Security Market Share [%] by: Sales and After-Sale Revenues – 2011-2022	326
Figure 136 - Global Video Security Sales [\$B] – 2011-2022	327

Figure 137 - Global Video Security Sales AGR [%] – 2011-2022.....	327
Figure 138 - Global Video Security Surveillance After-Sale Revenues [\$B] – 2011-2022.....	328
Figure 139 - Global Video Security Surveillance After-Sale Revenues AGR [%] – 2011-2022	329
Figure 140 - Example of FTIR Application at Border Checkpoint Facilities	330
Figure 141 - CCTV Based Biometric People Screening Corridor	332
Figure 142 - Field of View of a Fused Video Surveillance and Biometrics	333
Figure 143 - A Corridor CCTV & Biometric Portal Layout.....	335
Figure 144 - A New Product Technology Assessment Process	347
Figure 145 - World Muslim Population	354
Figure 146 - World Muslim Population Map	357