



Biometrics: Market Growth, Capacity Utilization, Development, Analysis Report to 2021

Orbis Research Present's Biometrics to 2021 has been prepared based on an in-depth market analysis with inputs from industry experts.

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Description

Orbis Research announces that it has published a new study [Biometrics Market](#) Shares, Strategy, and Forecasts, Worldwide, to 2021. Next generation biometrics implements smart devices that leverage better technology, they support high quality data gathering in the specific milieu in which they are being used. Devices are targeted to specific situations. Hybrid devices increase identification accuracy by combining two or several technologies and approaches to the market. The study has 1003 pages and 419 tables and figures.

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Biometric identity units provide security protection from a variety of perspectives. Units are comprised of integrated biometric capture devices. Biometrics is used to identify anyone in an accurate, repeatable manner. Physiological characteristics used for biometrics commonly include the face, fingerprints, voice, and DNA. Modern biometrics hybrid fingerprint recognition use onboard fingerprint readers. Mobile devices use capacitive technology to implement security systems Growth of biometrics security systems is being fueled by rising threats. Different portable device implementations have given rise to multiple technology breakthroughs in size, weights, and length of battery use..

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Biometrics is used to identify people in an accurate, repeatable manner. Physiological characteristics used for biometrics include the face, fingerprints, and DNA. Developments relate to the ability to unobtrusively collect face and voice biometrics, supplementing fingerprinting that has been dominant. Biometrics technology measures personal physiological characteristics for the purpose of unique identification and security.

Apple advanced the OS X "Quick Look" feature for iOS devices using an intense touch gesture. Apple extended fingerprint technology as Touch ID. iDevice displays are taking on fingerprinting capabilities and sensitivities beyond the home button. Apple introduces the possible use of virtual knobs, controlling video games via the home button.

Apple is working on assigning different bank accounts to different fingerprints. Apple next-gen touch panel technology introduces the next wave of biometric capabilities. Apple next-gen touch panel technology using nano silver wire materials brings sensitivity to iPad displays. The technology finds its way into the Apple watch and the iPhone. This technology gives Apple significant market advantage in the payment verification market.

TYPES OF BIOMETRIC DEVICES

- Automated fingerprint identification systems (AFIS)
- Palm and vein reading systems that supplement AFIS
- Non-automated fingerprint identification systems
- Facial recognition
- Iris scans
- Integrated AFIS, face, and iris systems
- DNA readers
- Biometric signatures
- Data encoders
- Bar coder
- Document scanner

Biometric identity units provide security protection. Units are comprised of integrated biometric capture devices and readers, systems to store and use the biometric identifiers. Biometrics units are comprised of fingerprint systems, facial recognition, iris scans, and biometric signatures. They include data encoders. Data encoders may be implemented as a bar coder or document scanner. Units are sometimes contained in ruggedized briefcases for military, public safety, and civil identification applications.

Advances in technology, miniaturization, and improved mobile device technology enable uses previously thought impossible, or never even imagined. Voter registration in low-literacy economies is now economical. Identifying persons of interest in a crowd can be done with biometrics.

Growth of biometric technologies has been in response to global security threats. Terrorist attacks, airport security initiatives, and attempts to lower crime rates have brought an increasing investment in biometric security systems. Government projects include ePassports, eDriving licenses, border management, and national IDs. These initiatives have been implemented in developed countries. A rise in government projects has been seen as terrorists become an increasing threat. This has been accompanied by increasing data security concerns. There is a need for advanced security devices.

Biometrics use cases can be consumer- or citizen-facing. These use cases are typically high-volume, low price broadly implemented systems. Enterprise-facing use cases include government law enforcement, and defense applications where an organization is implementing smaller volumes of devices, or where the devices are more expensive. Use cases define the biometrics market. Biometrics is used to identify individuals with confidence. When used in law enforcement, cases are resolved quicker and with more convictions of guilty people.

Security systems implementations drive the market for biometric systems. Biometric data protection is being used to replace photographs, passwords and PIN codes.

India, Mexico and Russia are driving the extraordinary growth of biometric systems. China has a biometric national ID program that commenced in 2013. India is getting on board. Computer storage of important documents has created an increasing need for biometric security systems.

Key industries in the biometrics market are finance, consumer devices, and healthcare. Key use cases include smart phone payment systems, consumer device authentication, mobile banking, automated teller machines (cashpoints), government IT systems, point-of-sale transactions, pharmacy dispensing, and wearable device authentication. Call center use cases apply across nearly all industries.

Biometric modalities include hybrid fingerprint / palm print, facial recognition, iris image, and voice recognition. The global biometrics market is \$7.0 billion in 2014, rising to \$44.2 billion by 2021. Biometrics revenue and device shipment forecasts are segmented by modality and market segment. There are four market segments, law enforcement, border control which includes government ID systems, workplace access, and consumer ID.

According to Susan Eustis, leader of the team that prepared the study, "Biometrics represent a multi-billion dollar industry because the devices provide personal identity protection. Biometrics is used by civil authorities to permit the organization of people into units of government that are a cohesive group of people, not intruded upon by outsiders. Biometrics provides a cornerstone of law enforcement agencies with fingerprint ID."

Companies Profiled

1. Market Leaders
2. NEC
3. Safron MorphoTrak
4. BM / Cogent
5. Gemalto / Avalon Biometrics
6. Tyco
7. M2SYS
8. Suprema
9. Fujitsu
10. DigitalPersona
11. Cross Match Technologies
12. Apple / AuthenTec
13. Aware
14. Green Bit
15. Iris ID Systems
16. Cognitec Systems
17. Iritech
18. Bio-key

Market Participants

1. BM
2. Agnitio
3. Amano USA Holdings, Inc / AccuTime
4. Systems
5. Apple / AuthenTec
6. Atos
7. Aware
8. Bethcom 716
9. B.10 BIO-key
10. Cognitec Systems
11. Communication Intelligence
12. Corporation
13. Cross Match / Francisco Partners
14. CSC
15. Daon
16. Dialog Semiconductor / Atmel
17. Diamond Fortress
18. EgisTec
19. EaceFirst
20. Fingerprint Cards AB
21. FotoNation
22. Fujitsu
23. Gemalto

24. Gemalto Group /Avalon
25. Biometrics
26. Google
27. Goodix Technology
28. Green Bit
29. IBM Facial Recognition
30. iDentiPHI
31. iDex
32. IDtech360
33. Integrated Biometrics
34. Intel
35. Interlink Electronics
36. Iris ID Systems
37. iRiTech
38. RDSK / Litronic
39. M2SYS
40. Mereal Biometrics
41. Merkatum Biometrics Security &
42. ID
43. Mobbeel
44. Mobizent
45. NEC
46. Next Biommetrics
47. NitGen & Company
48. Nuance
49. Precise Biometrics
50. Qualcomm
51. Reserve Group / Integrated
52. Biometrics
53. Safran Morpho
54. Science Applications International
55. Corporation (SAIC)
56. SecuGen
57. SIC Biometrics
58. SmartMetric
59. Smiths Detection
60. Steria
61. STMicroelectronics
62. Suprema
63. Symantec
64. Synaptics
65. Tyco Integrated Security
66. UnionCommunity / Virdi

67. United Technologies Corporation UTC Building & Industrial

68. Systems / Supra

69. Vision-Box

70. WCC Smart Search & Match

71. WHO

72. Witswell Consulting and Services

73. Cyber-SIGN 950

74. Zvetco Biometrics 952

75. Selected Biometric Industry

76. Mergers and Acquisitions

77. Acquisition by Atos of Siemens IT

78. Solutions and Services 2011

79. ST Microelectronics (Finger-Scan)

80. Spins off UPEK

81. Motorola Selling Biometrics

82. Business SAFRAN / Sagem SA

83. Safran Acquisition of L-1 Identity

84. Solutions Formed From A Merger

85. Of Visage Technology, Inc. and

86. Identix

87. BM Acquisition of Cogent

88. Amano USA Holdings, Inc. (AUH)

89. Acquired ATS

90. Apple Acquired AuthenTec

91. AuthenTec Acquisitions of

92. SafeNet's Embedded Security

93. Solution Division, UPEK, Inc.,

94. BeerSec Networks and Proxure,

95. Inc.

96. Smart Sensor Solutions

97. BIO-Key International / S.I.C.

98. Cross Match Acquired The

99. Biometric Business of

100. DigitalPersona

101. Cross Match Acquired Biometric

102. Authentication Business of Labcal

103. Technologies

104. Francisco Partners Acquired Cross

105. Match Technologies

106. Gemalto / Avalon Biometrics

107. Dialog Semiconductor / Atmel

108. iDentiPHI

109. Steria

110.Symantec Acquires VeriSign

111.Security Business

Key Topics

- Biometrics
- Identity and Access
- Management
- Wireless and Mobile Security
- Price Of Biometrics
- Fingerprint Scanner
- Time Attendance
- Biometrics Pinter Output
- Biometrics Fingerprint
- Scanner
- EBI PIV FAP
- Portable Fingerprint Scanner
- Java Fingerprint Scanner
- Biometric Fingerprint Reader
- Biometric Facial Recognition
- Biometric Voice Recognition
- Biometric Iris Recognition
- Biometric Handprint
- Recognition
- Biometric Signature
- Recognition
- Biometric Identity
- Management Solutions
- Software applications
- Fully certified livescan
- Multimodal mobile hardware
- Acquisitions of biometric
- Companies
- Services addressing multiple
- Biometric and credentialing
- Modalities
- Biometric Applications
- Web cloud-based identity
- Management software
- Mission Oriented Biometric
- Software
- Handheld and fix station

- Identity management
- Livescan Management
- Software (LSMS)
- Biometrics for Law
- Enforcement
- Biometrics for Applicant
- Processing
- Border patrol
- Law enforcement
- Multimodal biometrics
- Access control
- AFIS and ABIS Backend
- Systems
- Technology Solutions
- Fingerprint
- Palm
- Full-hand
- Iris scanners
- Facial Capture Systems
- Multi-Credential Readers
- Time Attendance |
- Fingerprint Time Attendance
- Staff Management Time
- Attendance
- Fingerprint Readers
- Fingerprint Reader Mobile
- Laptop Fingerprint Reader
- Fingerprint Access Control
- Access Control
- Waterproof Fingerprint
- Low Price Fingerprint Time
- Attendance Terminal
- Fingerprint Password Lock
- Touch Screen Password
- Lock
- Key Lock Safe
- Biometric Fingerprint Reader
- Sagem Fingerprint Readers
- Fingerprint Reader Mobile
- Laptop Fingerprint Reader
- Apps

Hector Costello

Orbis Research
+1 (214) 884-6817
[email us here](#)

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