

# ID WORLD

THE PLAYERS OF THE AUTO ID INDUSTRY

# BIOMETRICS

# 2020 BUYER'S GUIDE

Hadrian AG

## Dermalog

### Improving secure identification worldwide by innovative biometrics

#### DERMALOG

DERMALOG Identification Systems GmbH with head offices in Hamburg is Germany's pioneer for biometry and the largest German manufacturer of biometric devices and systems. The company provides biometric identification solutions including high-performance Automated Fingerprint Identification Systems (AFIS) and Automated Biometric Identification Systems (ABIS) as well as the latest generation of fingerprint and document scanners. DERMALOG's product range is complemented by biometric border control solutions, biometric identity cards and passports as well as biometric voting systems.

Nigerian banks have already successfully registered more than 35 million customers.

DERMALOG's innovative solutions also provide outstanding services such as project management, installation, and customization as well as maintenance and support of the delivered products. These and additional services form the basis for a long-term and trustful cooperation that connects DERMALOG with numerous customers.

Mittelweg 120  
20148 Hamburg  
Germany

Tel. +49 40 4132270  
Fax +49 40 41322789

www.dermalog.com  
info@dermalog.com

DERMALOG's technology is currently used in more than 220 large-scale installations around the globe. This includes one of the world's largest biometric installations set up in Nigeria. The branches of 23 banks and the Central Bank of Nigeria have been equipped with DERMALOG's ABIS. Bank customers are uniquely identified by fingerprints and face patterns, which effectively prevents fraud with false identities. The



## Human Recognition Systems

### Biometric technology that enables critical safe secure environments to operate effectively



In 15 years, Human Recognition Systems has pioneered and driven the adoption of automated identification technology around the world, from smoothing passenger journeys in the largest airports to keeping Construction workers safe across thousands of sites and protecting major events like the 2012 Olympic Games. We continue to challenge the status quo and have built the team to make a difference.

Human Recognition Systems takes pride in fulfilling potential and maximising the growth of the business as a trusted provider who deliver intelligent and bespoke solutions that are valued by their clients.

Today, the company develops a series of industrial software and hardware systems, enabled through biometric technology, that help construction companies, airports, oil & gas facilities and other 'critical safe secure' environments operate effectively. Innovation is actively encouraged within Human Recognition Systems, approaching any situation or problem with an open and imaginative mind ensures clients that they receive a solution that best fits their requirements. Everything is approached with energy, enthusiasm and drive.



2000 Enterprise Way,  
Liverpool  
L13 1FB  
UK

Tel. +44 151 2542888

www.hrsid.com

## Safran Identity • Security (Morpho)

### A broad range of biometric solutions and multimodal recognition for multiple business sectors

Safran Identity & Security, formerly known as Morpho, is a global leader in security and identity solutions, deploying solutions in more than 100 countries. We employ more than 8,700 people in 57 countries and generated revenues of nearly €1.9 billion in 2015. Backed by more than 40 years of experience in biometrics, the company develops innovative technologies for a wide range of markets and applications for people, governments and business. The company's solutions manage identities, secure payments and transactions and safeguard privacy,



for an increasingly digital and connected world. Safran also contributes to supporting law enforcement and protecting borders, for safer and easier everyday lives.

Safran Identity & Security's broad range of biometric solutions calls on technologies such as fingerprint recognition, multimodal recognition combining fingerprints and vein patterns, facial recognition and iris recognition. It reflects our unrivaled experience in biometrics, built up over the years by providing solutions for many different sectors.

Safran Identity & Security offers different biometric solutions and components, including portable terminals, sensors, software, mobile applications and automated control gates. Virtually all of these products are designed to collect, stock and process (by comparing data) biometric information, and produce a result or authorize an action.



Le Ponant de Paris 27  
rue Leblanc,  
F-75512 Paris  
Cedex 15, France

Tel. 33/1/5811/2500

[www.morpho.com](http://www.morpho.com)  
[info@morpho.com](mailto:info@morpho.com)

## Vision-Box

### Advanced biometric-based solutions in border control, identity management and surveillance

Vision-Box is a leading provider of Automated Border Control and electronic identity solutions using ICAO-compliant standards.

Since the deployment of the first worldwide eGate to use biometric facial recognition, we have been blazing a path of success, offering advanced biometric-based solutions in Border Control, Identity Management and Surveillance to Governments, Border Control Authorities, Airports or all Organizations needing to improve their security processes.



The company provides end-to-end Passenger Experience and Electronic Identity Management solutions that use ICAO and NIST-compliant standards, with over 1,000 operational Automated Border Control & Passenger Experience solutions in more than 50 airports across the globe and 3,000 Identity Management solutions worldwide.

Vision-Box partners with the most prestigious organizations worldwide, delivering dependable border control, identity management and security solutions for the most critical security scenarios, such as complex integrated border management deployments for air, land and sea borders, and for challenging innovation contexts, like citizen biographic and biometric enrollment in remote places, and self-service identity document delivery.




Rua Casal do Canas n.2  
Zona Industrial de Alfragide  
2790-204 Carnaxide, Portugal

Tel. +351 21 1543900  
Fax +351 21 1543901

[www.vision-box.com](http://www.vision-box.com)

|   |   |                       |                     |
|---|---|-----------------------|---------------------|
| <b>3M</b><br>www.3m.com/security                              | <b>MF -RFID -C (CL), M (L)</b><br>Center Bldg 225-4N-14, 55144-1000 St Paul, MN, Usa  | Tel. 1/800/3280067    | Fax 1/800/2235563   |
| <b>Accu-Time Systems Inc</b><br>www.accu-time.com             | <b>MF -B, DC -T (FX, FP)</b><br>420 Somers Road, 06029 Ellington, CT, Usa   | Tel. 1/860/870/5000   | Fax 1/860/872/1511  |
| <b>Advanco SA</b><br>www.advanco.be                           | <b>SI -BC, B -M (L, TTR), P (CP, I), S (HH, FX), T (RF, BT, FF)</b><br>Rue de la Fusée 66, B-1130 Brussels, Belgium                   | Tel. 32/2/7268800     | Fax 32/2/7264039    |
| <b>Allegion</b><br>www.securitytechnologies.ingersollrand.com | <b>MF -C, B -C (CL), T (HG), R (RF)</b><br>11819 North Pennsylvania Street, 46032 Carmel, IN, Usa                                     | Tel. 1/317/8103700    | Fax 1/317/8103989   |
| <b>Aoptix Technologies</b><br>www.aoptix.com                  | <b>MF -B -SW, SI -B - R (I), T, SW (I, OPT)</b><br>675 Campbell Technology Parkway, CA 95008 Campbell, Usa                            | Tel. 1/408/558/3300   | Fax 1/408/558/3301  |
| <b>ARH Inc.</b><br>www.arhungary.hu                           | <b>MF -B, RFID, DC, BC -BC, R (HH, FX, RF, I), S (HH, FX, POS, I, OCR), SW (S)</b><br>41 Alkotás St., HU-1123 Budapest, Hungary       | Tel. 36/12019650      | Fax 36/12019651     |
| <b>Arjo Systems</b><br>www.arjo-systems.com                   | <b>SH, SI - B, C -C(CL,CM,SM), DC, EP, GP, H, NFC, R, RFID, T(VT)</b><br>32 rue Jacques Ibert, 92300, Levallois-Perret, France        | Tel. +33 (0)181938850 |                     |
| <b>AuthenTec</b><br>www.authentec.com                         | <b>MF -B -T (FP)</b><br>709 South Harbor City Blvd., 32901 Melbourne, FL, Usa   | Tel. 1/321/308/1300   |                     |
| <b>Aware</b><br>www.aware.com                                 | <b>SW -B -SW (FF, I)</b><br>40 Middlesex Turnpike, MA 01730 Bedford, Usa  | Tel. 1/781/276/4000   | Fax 1/781/276/4001  |
| <b>Bio-key International, Inc.</b><br>www.bio-key.com         | <b>SH -B -SW</b><br>3349 Highway 138, Building D Suite A, 07719 Wall, NJ, Usa   | Tel. 1/732/359/1100   |                     |
| <b>BioLink Solutions</b><br>www.biolinksolutions.com          | <b>MF, SI -B, C -C (FP), S, SW</b><br>511 Avenue of the Americas, PMB 572, 10011 New York, NY, Usa                                    | Tel. 44/808/189/1360  |                     |
| <b>Biometrika Srl</b><br>www.biometrika.it                    | <b>MF -B -C (FP, CL, CM, SM), T (FP), S (FX), SW</b><br>Monte Santo, 21, 47122 Forlì, FC, Italy                                       | Tel. 39/0543/370680   | Fax 39/0543/456198  |
| <b>Biometry.com AG</b><br>www.biometry.com                    | <b>MF, SH -B -T (FF), VR, SW</b><br>Chilcherlistrasse 1, 6055 Alpnach OW, Switzerland   | Tel. 41/41/6703272    | Fax 41/41/6703276   |
| <b>Biomorf</b><br>www.biomorf.co.id                           | <b>MF, SH - B - S (FP, I, FF, FX, HH, HG, OPT, OCR), SW</b><br>Menara BCA, JLMH.Thamrin 1, Jakarta 10310 – Indonesia                  | Tel. +6221 2358 4793  | Fax +6221 2358 4794 |
| <b>Bundesdruckerei GmbH</b><br>www.bundesdruckerei.de         | <b>MF, SI, D, SH -C, B -C (SM, CL, FP), P, R (HH, FX), T (FP, FP, FF, VF), SW, EP, GP</b><br>Oranienstrasse 91, 10969 Berlin, Germany | Tel. 49/30/25980      | Fax 49/30/25982205  |

|   |  |                         |                        |
|---|--|-------------------------|------------------------|
| <b>CodeCiphers</b><br>www.codeciphers.com   | <b>MF, SH -B, C -C (CL) B, IC</b><br>Rua Bogaert 107 Villa Vernehla, 04298-020 Sao Paulo, Brazil   | Tel. 55/11/2175/1106    | Fax 55/11/2175/1171    |
| <b>Cogent Systems, 3M</b><br>www.cogentsystems.com                                | <b>MF -B, C, RFID, BC -C (MG, CM, SM, CL, OPT, FP), TAG (RF &lt;HF&gt;) R (HH, FX), S (FX POS, I) T (HH, FX, RF, I, BC, FP, IF, FF), SW, EP</b><br>639 N. Rosemead Blvd., 91107 Pasadena, CA, Usa  | Tel. 1/626/325/9600     | Fax 1/626/325/9700     |
| <b>Cognitec Systems GmbH</b><br>www.cognitec.com                                  | <b>MF, SH -B -T (FF), SW</b><br>Grossenhainer Str. 101, Tower B, 01127 Dresden, Germany  | Tel. 49/351/862/920     | Fax 49/351/862/9210    |
|  | Cognitec develops market-leading face recognition technologies and applications for enterprise and government customers around the world. Various independent evaluation tests have proven the premier performance of our FaceVACS® software. Cognitec's portfolio includes products for facial image database search, recorded video investigation, real-time video screening and people analytics, border control, ICAO compliant photo capturing and facial image quality assessment. |                         |                        |
| <b>Crossmatch</b><br>www.crossmatch.com   | <b>MF -B -R (HH, FX), S (HH, FX), T (HH, FX, FP, IF, FF, VF), SW</b><br>3950 RCA Boulevard, Suite 5001, Palm Beach Gardens, FL 33410, USA  | Tel. 1/561/622/1650     | Fax 1/561/622/9938     |
| <b>Daon</b><br>www.daon.com   | <b>SH -B -SW</b><br>11951 Freedom Drive - Suite 1400, 20190 Reston, VA, Usa  | Tel. 1/703/984/4000     | Fax 1/703/984/4099     |
| <b>Dartagnan BV</b><br>www.dartagnan.eu   | <b>SI, SH -C, B, RFID -C (SM, CL), R (RF), T (RF, FP, IF, FF, VF), SW</b><br>Triport 3, Westelijke Randweg 51, 1118 CR Luchthaven Schiphol, The Netherlands  | Tel. 31/20/405/4149     | Fax 31/20/405/4171     |
| <b>Datastrip Ltd</b><br>www.datastrip.com   | <b>MF -B, BC -R (HH), T (FP)</b><br>7 Thame Park Business Centre, Wenman Road, OX9 3XA Thame, Oxfordshire, UK  | Tel. 44/1844/215668     | Fax 44/1844/215669     |
| <b>Dermalog Identification System GmbH</b><br>www.dermalog.com                    | <b>MF,SH,SI,VAR,D -B,C,RFID,BC -C(CM,SM,CL,OPT,FP),TAG(RF&lt;HF&gt;),A,R(HH,FX,RF,I),S(HH,FX,POS,I),T(HH,RF,BC,FP),SW</b><br>Mittelweg 120, 20148 Hamburg, Germany   | Tel. 49/40/4132270      | Fax 49/40/41322789     |
| <b>DigitalPersona</b><br>www.digitalpersona.com                                   | <b>MF, SW -B -R(FX, FR, HH), SW</b><br>720 Bay Road, CA 94063 Redwood City, USA  | Tel. 1/650/474/4000     | Fax 1/650/298/8313     |
| <b>Ekey Biometric Systems</b><br>www.ekey.net                                     | <b>MF, SH -B, RFID -S (FX, POS, I), T (FP, RF, I, POS), SW</b><br>Lunzerstrasse 89, 4030 Linz, Austria   | Tel. 43/732/890500 2000 | Fax 43/732/890500 2002 |

**LEGENDA**

| ROLE IN THE VALUE CHAIN    | PRODUCT CATEGORIES              | PRODUCT SPECIFICATIONS             |                                 |
|----------------------------|---------------------------------|------------------------------------|---------------------------------|
| D = Distributor            | A = Antenna                     | BT = Batch                         | IF = Iris Feature               |
| MF = Manufacturer          | C = Cards                       | BC = Barcode                       | L = Labels                      |
| SH = Software House        | EP = Electronic Personalization | CL = Contactless                   | LF = Low Frequency              |
| SI = System Integrator     | GP = Graphic Personalization    | CM = Contact Memory                | MG = Magnetic                   |
| VAR = Value Added Reseller | IC = Integrated Circuits        | CMA = Card Materials               | MK = Marking                    |
|                            | M = Media                       | CP = Compact                       | MW = Microwave                  |
|                            | MC = Machinery                  | DNA = DNA                          | OCR = Optical Char. Recognition |
|                            | MV = Machine Vision             | EAS = Electronic Art. Surveillance | OPT = Optical                   |
|                            | P = Printers                    | FF = Facial Feature                | POS = Point of Sale             |
|                            | R = Readers                     | FP = Fingerprint                   | RF = Radio Frequency            |
|                            | S = Scanners                    | FX = Fixed                         | SL = Smart Labels               |
|                            | SW = Software                   | H = Holograms                      | SM = Smart                      |
|                            | T = Terminals                   | HF = High Frequency                | TTR = Thermal Transfer Ribbon   |
|                            | TAG = Tags                      | HG = Hand Geometry                 | UHF = Ultra High Frequency      |
|                            | VR = Voice Recognition          | HH = Handheld                      | VF = Verifier                   |
|                            |                                 | I = Industrial                     | VT = Vehicle Terminal           |

|   |  |                      |                     |
|---|--|----------------------|---------------------|
| <b>Entrust Datacard</b><br>www.entrustdatacard.com                      | <b>MF -C, B -C (CM, SM, CL, FP), EP</b><br>Forum 3, Solent Business Park, PO15 7FH Whiteley, Fareham, UK   | Tel. 44/1489/555600  | Fax 44/1489/555601  |
| <b>Eter Biometric Technologies Srl</b><br>www.eter.it                   | <b>D, VAR, SI -B, RFID -C (MG, CM, SM, CL, OPT, FP), TAG (RF&lt;LF, HF, UHF&gt;), R (RF), T (RF, FP, HG, IF, FF, VT), VR, SW</b><br>Via Cartesio 3/1, 42100 Bagno, RE, Italy                           | Tel. 39/0522/262/500 | Fax 39/0522/624/688 |
| <b>Fingerprint Cards AB</b><br>www.fingerprints.com                     | <b>MF -B -IC, T (FP), C (FP), SW</b><br>P O Box 2412 (Kungssportsplatsen 2), 403 16 Gothenburg, Sweden   | Tel. 46/31/607820    | Fax 46/31/137385    |
| <b>Fujitsu</b><br>www.fujitsu.com                                       | <b>MF, SH -B -R (FX, HH, HG), SW</b><br>1-5-2 HigaSHi-SHimbaSHi, 105-7123 Minato-ku Tokyo, Japan   | Tel. 81/3/6252/2220  |                     |
| <b>Green Bit SpA</b><br>www.greenbit.com                                | <b>MF -B, -T (FP, HH), SW</b><br>Via Rivalta n. 9 , 10095 Grugliasco (TO) , Italy  | Tel. 39/011/7703811  | Fax 39/011/7703880  |
| <b>Hirsch Electronics Corp.</b><br>www.hirschelectronics.com            | <b>MF -B, C, RFID -C (MG, CM, SM, CL, OPT, FP), TAG (RF&lt;LF, HF, MW&gt;), R (HH, FX, RF, I), T (HH, FX, RF, I, BC, FP, IF, VT, VF), SW, EP, GP</b><br>1900-B Carnegie Ave., 92705 Santa Ana, CA, Usa | Tel. 1/949/250/8888  | Fax 1/949/250/7372  |
| <b>Hitachi</b><br>www.hitachi-eu.com/veinid/                            | <b>MF, SH -B -T (FP)</b><br>Whitebrook Park, Lower Cockham Road, Maidenhead, SL6 8YA Berkshire, UK   | Tel. 44/1628/585581  | Fax 44/1628/585440  |
| <b>Honeywell Access Systems</b><br>www.honeywellaccess.com              | <b>MF, SH -RFID, B -C (MG, CM, SM, CL, FP), M (TTR, H), P (TTR), R (HH, RF), S (HH)</b><br>2700 Blankenbaker Pkwy, Suite 150, 40291 Louisville, KY, Usa  | Tel. 1/800/6753364   | Fax 1/502/2975770   |
| <b>Human Recognition Systems</b><br>www.hrsid.com                       | <b>SH, SI -B, RFID -R (FX, I, FP, HG, OPT), T (HH, FX, I, BC, FP, HG, IF, FF, VF), SW</b><br>1st Floor, Building 2000, Vortex Court, Wavertree Technology Park, L13 1FB Liverpool, UK                  | Tel. 44/151/254/2888 | Fax 44/151/254/2999 |
| <b>IBM United Kingdom Ltd.</b><br>www-03.ibm.com/industries/government/ | <b>MF, SI, SH -B, RFID -T (FP, FF), SW</b><br>New Square, TW14 8HB Bedfont Lakes, Feltham, UK  | Tel. 44/7802/461174  |                     |
| <b>Identification Technologies Company (ITEC)</b><br>www.itec.snz.ru    | <b>D, SI -B, RTLS -TAG (RF, MW), R (RF) T (HG, VT)</b><br>18 Vasiljeva St, p/o 65, 456770 Snezhinsk, Cheljabinsk Region, Russia  | Tel. 7/35146/21173   | Fax 7/35146/25741   |
| <b>IDesia Ltd.</b><br>www.idesia-biometrics.com                         | <b>MF -B -T (VF), SW</b><br>7 Halamish Street - POB 3080, 38900 Caesarea Industrial Park, Israel   | Tel. 972/4/6371938   | Fax 972/4/6376088   |
| <b>IDTeck</b><br>www.idteck.com   | <b>MF, D -C, B, RFID -C (CM, SM, CL), TAG (RF&lt;LF, HF, UHF&gt;), T (RF, FP, FF, VF), SW</b><br>5F, Ace Techno Tower B/D 684-1, Deungchon-Dong, Gangsuh-Gu, 157-030 Seoul, Korea                      | Tel. 82/2/26590055   | Fax 82/2/6590086    |
| <b>ImageWare Systems, Inc.</b><br>www.iwsinc.com                        | <b>MF, SH -B, C -T (FP, HG, IF, FF), VR, SW</b><br>10883 Thornmint Rd , 92127 San Diego, CA, Usa   | Tel. 1/858/673/8600  | Fax 1/858/673/1770  |
| <b>Industrial Innovation Group</b><br>www.industrialinnovationgroup.com | <b>MF, SH - C, B, NFC, RFID - C(MG, CM, SM, CL, FP), M(L, H), TAG(RF), P(I), SW, EP, GP, MC</b><br>Building Z-2, Executive suite 85, SAIF Zone, Sharjah a/p, P.O. Box 9015, Sharjah, UAE               | Tel. 00971 6557 0725 | Fax 00971 6557 4810 |

|                  |   |
|------------------|---|
| <b>Ingenico</b>  | <b>SH, SI -C, B -T (HH, FX, RF, CL, BC, FP, POS), SW, VT</b>                                |
| www.ingenico.com | 192 avenue Charles de Gaulle, 92200 Neuilly, France<br>Tel. 33/1/46258200 Fax 33/1/47725695 |

|                      |   |
|----------------------|---|
| <b>Inside Secure</b> | <b>MF -RFID, NFC -C (CL), M (SL, L), IC</b>   |
| www.insidesecond.com | 41 Parc Club du Golf, 13856 Aix en Provence, France<br>Tel. 33/4/42396300 Fax 33/4/42396319 |

|   |  |
|---|--|
| <b>Interflex Datensysteme GmbH &amp; Co. KG</b> | <b>MF, SI -B, C -T (RF, FP), SW</b>  |
| www.interflex.de                                | P.O. Box 81 03 60, 70520 Stuttgart, Germany<br>Tel. 49/711/13220 Fax 49/711/1322/111 |

|                                      |   |
|--------------------------------------|---|
| <b>International Biometric Group</b> | <b>SI -B, C -SW</b>   |
| www.biometricgroup.com               | One Battery Park Plaza, 10004 New York, NY, Usa<br>Tel. 1/212/8099491 Fax 1/212/8096197 |

|                                |   |
|--------------------------------|---|
| <b>IRIS Corporation Berhad</b> | <b>MF,SI,B,C,NFC,RFID,C(BC,CL,CM,H,MG,RF),EP,GP,P(CL,CM,MK),R(BC,CL,CM,CP,FP,HH,POS,RF,SM,VF),S(CL),SW,T(BC,CL,CM,FP,HH,POS,RF,SM,VF)</b> |
| www.iris.com.my                | IRIS Smart Technology Complex, Technology Park Malaysia, Bukit Jalil, 57000 Kuala Lumpur, Malaysia<br>Tel. 603/89960788 Fax 603/89960441  |



To ensure a fast yet smooth implementation, it is important to select suppliers with extensive experience and proven track record in trusted identification. As the inventor of ePassport and multi-application eID, IRIS is the only supplier with extensive experience in ePassport since 1998 and in multi-application eID since 2001. We have international presence in over 28 countries where we deliver unrivalled service exceeding our customers' expectations. IRIS is committed to innovation and is the proud owner of over 40 patents in trusted identification products.

|                       |  |
|-----------------------|--|
| <b>Julius Ltd.</b>    | <b>MF, SI, D -B, RFID -T (FP), SW</b>  |
| www.powertouching.com | Nezavisimost str., 7000 Rousse, Bulgaria<br>Tel. 359/82/887475 Fax 359/82/809019 |

|                   |   |
|-------------------|---|
| <b>Kee Square</b> | <b>SH -B -SW</b>  |
| www.keesquare.com | Via DonaTel. lo 11, 20131 Milano, Italy<br>Tel. 39/02/36533368 Fax 39/02/36533329 |

|                           |  |
|---------------------------|--|
| <b>Kronos Systems Ltd</b> | <b>MF -B, C -T (FP)</b>  |
| www.kronos.com/uk         | Kronos House, Carey Road, RG40 2NP Wokingham, UK<br>Tel. 44/118/9789784 Fax 44/118/9782214 |

|                              |  |
|------------------------------|--|
| <b>Legic Identsystems AG</b> | <b>MF -RFID, NFC -IC (CL, RF &lt;HF&gt;), R (RF), T (RF), EP</b>                           |
| www.legic.com                | Binzackerstrasse 41, CH-8620 Wetzikon, Switzerland<br>Tel. 41/44/9336464 Fax 41/44/9336465 |

**LEGENDA**

| ROLE IN THE VALUE CHAIN                      | PRODUCT CATEGORIES              | PRODUCT SPECIFICATIONS             |                                 |
|--|---------------------------------|------------------------------------|---------------------------------|
| D = Distributor                              | A = Antenna                     | BT = Batch                         | IF = Iris Feature               |
| MF = Manufacturer                            | C = Cards                       | BC = Barcode                       | L = Labels                      |
| SH = Software House                          | EP = Electronic Personalization | CL = Contactless                   | LF = Low Frequency              |
| SI = System Integrator                       | GP = Graphic Personalization    | CM = Contact Memory                | MG = Magnetic                   |
| VAR = Value Added Reseller                   | IC = Integrated Circuits        | CMA = Card Materials               | MK = Marking                    |
|  | M = Media                       | CP = Compact                       | MW = Microwave                  |
|  | MC = Machinery                  | DNA = DNA                          | OCR = Optical Char. Recognition |
|  | MV = Machine Vision             | EAS = Electronic Art. Surveillance | OPT = Optical                   |
| B = Biometrics                               | P = Printers                    | FF = Facial Feature                | POS = Point of Sale             |
| BC = Barcode                                 | R = Readers                     | FP = Fingerprint                   | RF = Radio Frequency            |
| C = Cards                                    | S = Scanners                    | FX = Fixed                         | SL = Smart Labels               |
| DC = Data Collection                         | SW = Software                   | H = Holograms                      | SM = Smart                      |
| NFC = Near Field Comm.                       | T = Terminals                   | HF = High Frequency                | TTR = Thermal Transfer Ribbon   |
| RFID = Radio Frequency Identification Device | TAG = Tags                      | HG = Hand Geometry                 | UHF = Ultra High Frequency      |
| RTLS = Real Time Loc. System                 | VR = Voice Recognition          | HH = Handheld                      | VF = Verifier                   |
|  |                                 | I = Industrial                     | VT = Vehicle Terminal           |

|   |  |                      |                     |
|---|--|----------------------|---------------------|
| <b>Lumidigm</b><br>www.lumidigm.com                         | <b>MF -B -T (FP)</b><br>801 University Blvd SE, STE 302, 87106 Albuquerque NM, Usa   | Tel. 1/505/2727084   | Fax 1/505/2727354   |
| <b>Masktech GmbH</b><br>www.masktech.com                    | <b>SH -C, B, RFID -IC, SW</b><br>Fischerstrasse 19, 87435 Kempten, Germany   | Tel. 49/831/51210771 | Fax 49/831/51210775 |
| <b>MaxID</b><br>www.maxidgroup.com                          | <b>MF -RFID, B, BC -C (CL, FP, SM), TAG (RF&lt;LF, HF, UHF&gt;), R (HH, RF, I), S (HH, POS, OCR), T (HH, RF, FP, POS, BC)</b><br>530 Lytton Ave. 2nd Floor, 94301 Palo Alto, Usa | Tel. 1/650/617/3370  |                     |
| <b>Morpho</b><br>www.morpho.com                             | <b>MF, SI -C, B -C (CM, SM, CL, FP), R (RF), T (RF, FP, IF, FF), SW, EP, GP</b><br>Le Ponant de Paris 27, rue Leblanc, F-75512 Paris Cedex 15, France                            | Tel. 33/1/5811/2500  | Fax 33/1/4070/2550  |
| <b>Nadra</b><br>www.nadra.gov.pk                            | <b>VAR, SI, SH -C, B, RFID, DC -SW, EP, GP</b><br>State Bank of Pakistan Building, SHahrah-e-Jamhuriat, G-5/2, 44000 IslamabaD, Pakistan   | Tel. 92/51/9205568   | Fax 92/51/9202939   |
| <b>NEC Solutions (America) Inc</b><br>www.necam.com/ids/law | <b>SI -B -T (FP), SW</b><br>10850 Gold Center Drive, Suite 200, 95670 Rancho Cordova, CA, Usa  | Tel. 1/800/777/2347  | Fax 1/916/4637041   |
| <b>Nfive Software</b><br>www.nfive.com                      | <b>SH -C, BC, RFID, B -SW</b><br>Edificio OneWorld, Urb Belo Horizonte Lt20, 2655-241 Ericeira, Portugal   | Tel. 351/261/860450  | Fax 351/261/865/647 |
| <b>Oki Electric Industry Co</b><br>www.oki.com              | <b>MF -B -P (CP), S (I), T (I, IF, FF), SW</b><br>7-12 Toranomom 1-chome, 105-8460Tokyo, Minato-ku, Japan  | Tel. 81/3/3501/3835  | Fax 81/3/3501/3924  |
| <b>Oracle Corporation</b><br>www.oracle.com                 | <b>SH -B, RFID -SW</b><br>500 Oracle Parkway, 94065 Redwood Shores, CA, Usa  | Tel. 1/650/506/7000  |                     |
| <b>Precise Biometrics AB</b><br>www.precisebiometrics.com   | <b>MF -B, C -C (FP), T (FP), SW</b><br>Scheelevagen 19C, SE-223 70 Lund, Sweden  | Tel. 46/46/311100    | Fax 46/46/311101    |
| <b>Privaris, Inc.</b><br>www.privaris.com                   | <b>MF -B, RFID -T (FP, VF, HH, RF)</b><br>650 Peter Jefferson Parkway, Suite 330, 22911 Charlottesville, VA, Usa   | Tel. 1/434/293/4033  | Fax 1/434/293/8212  |
| <b>SecuGen Corporation</b><br>www.secugen.com               | <b>MF -B -T (FP)</b><br>2065 Martin Ave Suite 108, 95050 Santa Clara, CA, Usa  | Tel. 1/408/7277787   | Fax 1/408/8347762   |
| <b>Smartmatic</b><br>www.smartmatic.com                     | <b>MF, SW -B -T (FP, VF, HH, RF), R (FO, HG, FX), S, SW</b><br>105 Piccadilly, 6th Floor, W1J 7NJ London, UK   | Tel. 44/20/3402/3613 |                     |
| <b>Thales</b><br>www.thalesgroup.com                        | <b>MF, SI -B, NFC -IC, A, T(FX, FP, IF, FF), SW, EP</b><br>20-22 rue Grange Dame Rose, 78141 Velizy, France  | Tel. 33/1/73320000   |                     |
| <b>Trix Tecnologia Ltd</b><br>www.xpto.com.br               | <b>MF, SI -C, B -P, S (HH,FX), T (RF, BT, FP)</b><br>rua da Paz, 1957 Ch Sto Antônio, 04713 002 Sao Paulo, SP, Brazil  | Tel. 55/11/33652000  | Fax 55/11/33652070  |



|  |   |                      |                     |
|--|---|----------------------|---------------------|
| <b>Trüb AG</b><br>www.trueb.ch                                     | <b>MF, SI -C, B, NFC -C (MG, CM, SM, CL, FP), M (H), TAG (RF&lt;LF, HF&gt;), IC, A, P (TTR), SW, EP, GP, MC</b><br>Hintere Bahnhofstrasse 12, 5001 Aarau, Switzerland   | Tel. 41/62/8320000   | Fax 41/62/8320100   |
| <b>TST Biometrics GmbH</b><br>www.tst-biometrics.com               | <b>MF -B -T (FP)</b><br>Moehlstrasse 39, 81675 Munich, Germany  | Tel. 49/89/9988550   | Fax 49/89/99885511  |
| <b>Unisys</b><br>www.unisys.com/biometrics                         | <b>SI, SH, VAR -C, B -C (MG,SM,OPT,FP), T (HH, FX, RF, BT, BC, FP, IF, FF, VF), VR, SW, EP, GP</b><br>801 Lakeview Drive, 19422 Blue Bell, PA, Usa  | Tel. 1/215/986/4011  |                     |
| <b>Vision-Box</b><br>www.vision-box.com                            | <b>MF -C, B -C, R (FX, FF, FP, VF), T</b><br>Rua Casal do Canas n.2, Zona Industrial de Alfragide, 2790-204 Carnaxide, Portugal   | Tel. 351/21/154/3900 | Fax 351/21/154/3901 |
| <b>Vitronic Stein Bildverarbeitungssysteme</b><br>www.vitronic.com | <b>MF -BC, DC -R (I, OCR), S (I, OCR), MV</b><br>Hasengartenstrasse 14, 65189 Wiesbaden, Germany  | Tel. 49/611/71520    | Fax 49/611/7152133  |
| <b>Vlatacom d.o.o.</b><br>www.vlatacom.com                         | <b>MF, SI, SH -C, B, DC -R(HH, FX,RF&lt;HF&gt;), S(OCR), T (HH, BC, FP, FF, RF, VF), SW, EP, GP</b><br>5 Milutina Milankovica, 11070 Belgrade, Serbia   | Tel. 381/11/377/1100 | Fax 381/11/377/1199 |
| <b>Voicevault Inc.</b><br>www.voicevault.com                       | <b>SH -B -SW, VR</b><br>400 Continental Blvd., 6th Floor, 90245 El Segundo, CA, Usa   | Tel. 1/310/426/2792  | Fax 1/310/426/2001  |
| <b>Voxware</b><br>www.voxware.com                                  | <b>SH -B -VR</b><br>168 Franklin Corner Rd., 08648 Lawrenceville, NJ, Usa   | Tel. 1/609/514/4100  |                     |
| <b>Wacom Europe GmbH</b><br>www.wacom-europe.com                   | <b>MF -B -T (POS, VF), SW</b><br>Europark Fichtenhain A9, 47807 Krefeld, Germany  | Tel. 49/6966/308200  |                     |
| <b>WCC Smart Search &amp; Match</b><br>www.wcc-group.com           | <b>MF -B, DC -SW</b><br>Zonnebaan 19, 3542 EA Utrecht, The Netherlands  | Tel. 31/30/7503200   | Fax 31/30/7503299   |
| <b>Zetes BV</b><br>www.zetes.nl                                    | <b>SI -B, C, BC, DC, RFID, RTLS -C (SM, CL), M (L, SL, TTR, I), TAG (RF&lt;LF, HF, UHF&gt;), A, P (CP, I, TTR), R (HH, FX, RF, I), S (HH, FX, POS, I, OCR), T (HH, FX, RF, I, BT, BC, POS, VT, VF), VR, SW, EP</b><br>Science Park Eindhoven, Ekkersrijt 5202, 5692 EG Son, The Netherlands | Tel. 31/40/8444444   | Fax 31/40/8444455   |

## LEGENDA

### ROLE IN THE VALUE CHAIN

D = Distributor  
MF = Manufacturer  
SH = Software House  
SI = System Integrator  
VAR = Value Added Reseller

### TECHNOLOGIES

B = Biometrics  
BC = Barcode  
C = Cards  
DC = Data Collection  
NFC = Near Field Comm.  
RFID = Radio Frequency Identification Device  
RTLS = Real Time Loc. System

### PRODUCT CATEGORIES

A = Antenna  
C = Cards  
EP = Electronic Personalization  
GP = Graphic Personalization  
IC = Integrated Circuits  
M = Media  
MC = Machinery  
MV = Machine Vision  
P = Printers  
R = Readers  
S = Scanners  
SW = Software  
T = Terminals  
TAG = Tags  
VR = Voice Recognition

### PRODUCT SPECIFICATIONS

BT = Batch  
BC = Barcode  
CL = Contactless  
CM = Contact Memory  
CMA = Card Materials  
CP = Compact  
DNA = DNA  
EAS = Electronic Art. Surveillance  
FF = Facial Feature  
FP = Fingerprint  
FX = Fixed  
H = Holograms  
HF = High Frequency  
HG = Hand Geometry  
HH = Handheld  
I = Industrial

IF = Iris Feature  
L = Labels  
LF = Low Frequency  
MG = Magnetic  
MK = Marking  
MW = Microwave  
OCR = Optical Char. Recognition  
OPT = Optical  
POS = Point of Sale  
RF = Radio Frequency  
SL = Smart Labels  
SM = Smart  
TTR = Thermal Transfer Ribbon  
UHF = Ultra High Frequency  
VF = Verifier  
VT = Vehicle Terminal