DERMALOG

Dermalog Gate
The next generation gate
Made in Germany.

Welcome to the World of DERMALOG.

The Biometrics Innovation Leader.

As a pioneer in the development of biometric products and solutions, DERMALOG has shaped the world of security for over 25 years. We have been and keep on revolutionizing biometric security products for law enforcement, civil governmental agencies like national registration, voter and driver registrations, health agencies, security agencies. We develop solutions for access and data security, authorization and authentication services as well as mobile security. Governmental organizations as well as public and private businesses all over the world trust DERMALOG's expertise and state of the art biometric products.
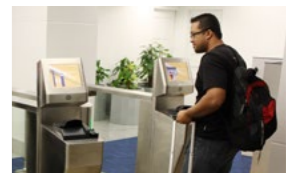
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DERMALOG Gate - The most efficient Solution for automated Passenger Processing.

DERMALOG's biometric gate is the first fully automated electronic gate utilizing premium 3D sensor high resolution camera technology combined with a precisely defined field of view.

The cutting-edge camera guarantees only one person at a time can pass the DERMALOG Gate by providing highly secure facial recognition. Its technology recognizes biometric face data thus minimizing non-detection of deception and fraud.

The camera eliminates the need for a two-door gateway which is replaced by a leading-edge single-door design. As a result, any supervising or operating staff nearby becomes unnecessary.

DERMALOG offers the customer to select a biometric gate equipped exclusively with face recognition. However, the gate is also available with an integrated fingerprint identification system only. The DERMALOG Gate features a multipurpose 1:n (one-to-many) face recognition / fingerprint identification. It accomplishes more than 100,000,000 matches per second which is the world's fastest AFIS coding and matching system.

Both systems are available upon request in a combined version allowing for the fastest possible single passenger control on the market. Thereby, passenger processing is not only made far more secure but also faster, convenient and less labor-intensive.

The integrated front scanner allows for fast readout of numerous documents like passports, electronic passports, ID cards, eID Cards, flight tickets, barcodes and two-dimensional barcodes.
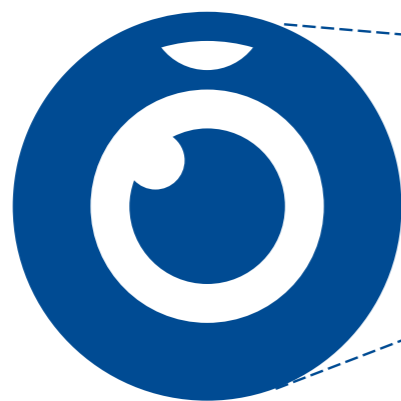
Additional benefits are the reduction of default probability of mechanical parts by about a half. Downtimes and maintenance efforts are reduced to 50% while high security levels are not compromised at all. The total costs of the installation are decreased by up to 30%.

DERMALOG's biometric gate features materials in especially high quality, with a frame made of stainless steel, doors acrylic glass and the side walls constructed with Single pane safety glass (ESG).

It is complemented with cutting-edge combinable biometric systems guaranteeing reliability and accuracy for passenger identification. All these features benefit passengers who are able to pass the gate quickly and conveniently.

As a result, all processing speeds up, is operated simply and significantly reduces lines: The DERMALOG Gate lowers waiting times, provides a self-service process, raises the appeal of using the airport.

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DERMALOG Gate -
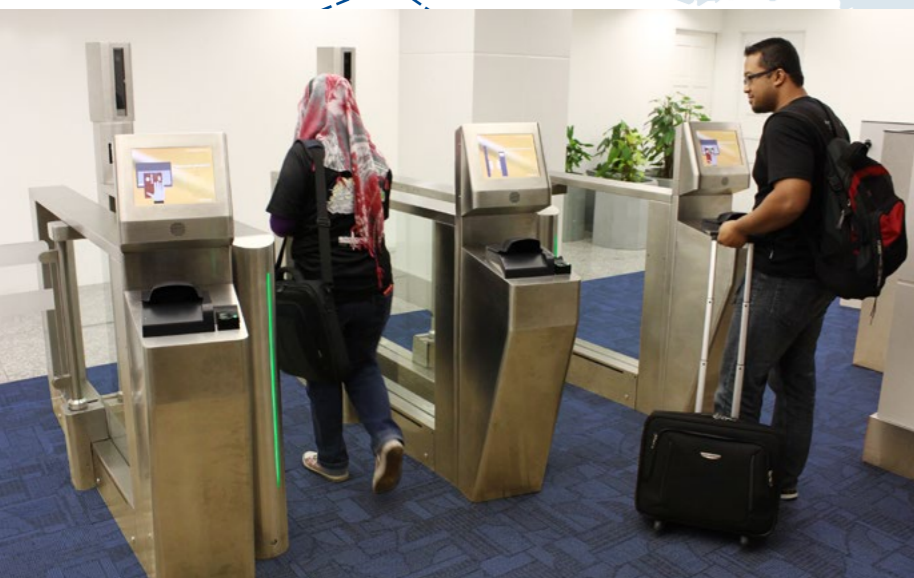# key benefits and core enabling technologies.

Premium 3D sensor camera technology

The DERMALOG Gate uses an onboard camera, with a regular color sensor and a sensor for depth information. The resolution of the color sensor is 1920x1080 pixels (FullHD, 1080 pixels). The built-in depth sensor's resolution is 512x424 pixels. All depth information is obtained via Time-Of-Flight (TOF) procedures while the camera captures 30 frames per second. Different cameras can be combined and custom-specific modifications are available.

• The camera ensures that only one person at a time can pass the DERMALOG Gate

• The camera provides secure facial recognition. Its technology recognizes and stores biometric face data and minimizes the non-detection of deception and fraud. This is made possible by its high resolution and a precisely defined field of view

• The camera is complemented by precisely adapted software developed by DERMALOG

DERMALOG Gate - key benefits and core enabling technologies

• Fast readout of numerous documents like machine-readable passports , electronic passports, ID cards, eID Cards, flight tickets, barcodes and two-dimensional barcodes

• Country codes in travel documents can be used to adapt interface languages to passengers

• Supervising personnel unnecessary, significantly faster passenger processing

• Corresponds with ICAO, ISO, EU and national level standards

• Operates with DERMALOG AFIS/ABIS and further enrollment and verification systems

• The DERMALOG Gate features a multipurpose 1:n (one-to-many) facial recognition / fingerprint search. It accomplishes more than 100,000,000 matches per second which is the world's fastest AFIS coding and matching system

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Brunei

Malaysia

Brunei

DERMALOG enhances
Brunei's superior Border Control System.

Innovative biometric gate single door system
in a compact all-in-one design.

In order to enhance and improve improve faster clearance at airports, DERMALOG has equipped the Sultanate's border control e-gates by networking border control systems, passport identification and ID card systems. Further systems will follow.

The performance of the installed BiometricGates has substantially been improved by new onboard cameras operating with 3D technology. Their main benefit consists in a fully automated and highly secure anti-tailgating single door system in a compact all-in-one design. Usually a two-door system is needed to ensure the authentication of every single person entering or leaving the country.

Brunei has been the world's first state to introduce a biometric identification card with fingerprint identification, the Brunei Smart Identity Card. DERMALOG also provided the Central Automated Fingerprint Identification System (AFIS) for identification and verification purposes. The DERMALOG AFIS for the National fingerprint database has a contractual capacity of 600,000 records.

DERMALOG has also provided the live scanners and peripheral hardware for the AFIS and their integration within the system. The AFIS went fully live in July 2000. For the issuance of the Brunei e-passport the applicants' ten fingerprints are caputred during enrollment. In 2008 DERMALOG also provided the biometric

gate system for Brunei which can be used by the citizens of Brunei holding the Brunei Smart Identity Card and citizens of Malaysia holding the Malaysian e-ID card.

Ever since the deployment of this new border control solution it has been impossible for impostors to enter Brunei by using different identities.

DERMALOG was responsible for the majority of the services of the above mentioned projects. This includes development, configuration, testing, installation and integration of the software as well as the hardware. DERMALOG also provided first and second level training as well as the maintenance.

Australia

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Specifications **Dermalog** Gate

A) front view B) top view C) + D) side view, dimensions 2068 mm x 988 mm x 1715 mm

Specifications **Dermalog** Gate

Technical features

Material	Frame:	stainless steel
	Doors:	acrylic glass
	Side walls:	Single pane safety glass (ESG)
Measurements	2068 mm x 988 mm x 1715 mm (length, width, height)	
Camera	Sensor:	color image sensor, infrared sensor
	Resolution:	1080 x 1920 Pixel (color camera), 424 x 512 Pixel (infrared camera)
Fingerprint Scanner	DERMALOG ZF1	
Optical Scanning Area	24 mm x 16 mm	
Scan Resolution ZF1	500 dpi	
Passport Reader	DERMALOG XF9e	
Automatic Document Detection (ADD)	yes	
Reflection Removal (RR)	yes	
ICAO MRZ Reading	CAO compliant documents per ICAO 9303 specification Part 1, Part 1v2, Part 2, Part 3 and Part 3v2 for Type ID-1, ID-2 and ID-3 MRZ Optical Character Recognition	
VIZ Reading	available, based on user-defined fields	
Barcode Reading	1D: UPC-A, EAN8, EAN13, Code39, Code128 and ITF 2D: PDF 417, Data Matrix, QR Code, Aztec Code From paper-based documents and mobile devices AAMVA compliant PDF417 and IATA BCBP	
Contactless IC (RFID) Option	reading and writing contactless ICs according to: ISO 14443 Type A & B, All standardized rates up to 848 Kbps	
Magnetic Stripe Option	track 1, 2 and 3 stripes according to related ISO, ANSI and AAMVA standards	
Contact Smart Card Option	ISO 7816 Class A, AB and C, ISO 7816 & EMV2 2000 Level 1	
Soft-/Hardware	Software	DERMALOG BiometricGate Software
	Operating System:	Windows 8.1 64 Bit
	Processor:	Intel CORE I5-3610ME
	Memory:	4 GB RAM
	Hard disk drive:	500 GB
	Display:	800 x 600 Resolution
Standard Compliance	compliant to ICAO Doc. 9303; BAC, SAC and EAC documents supported	

All data subject to modification due to ongoing technical innovations.

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