SIGMA RANGE
Contact fingerprint access control devices

SIGMA RANGE is a multi-device family for fingerprint access control and time & attendance recording. Building upon IDEMIA's successes in biometrics, SIGMA devices offer unprecedented accuracy, reliability and cost-effective solutions for leveraging biometric security within private or public organizations.

SIGMA Lite

Designed for access control, SIGMA Lite is a slim and powerful fingerprint reader that fits to door and window frames, server rack doors or turnstiles. This cost-effective version guides users with a simple LED indicator.

SIGMA Wide

Offering the best user experience with a 5" touchscreen, SIGMA Wide is optimized for time & attendance management. It is undoubtedly the most flexible fingerprint device for displaying company content (videos, wallpapers), and proactively promoting corporate branding.

SIGMA Lite+

Engineered with the same form factor as SIGMA Lite, SIGMA Lite+ includes an additional 2.8" touchscreen for extended features such as recording time & attendance, In & Out function keys, PIN code, intuitive icons and live messages.

SIGMA Extreme

Designed for harsh environments and weather conditions, this ruggedized version provides an IK09 protection for outdoors installation at labor-intensive sites such as industrial plants, mines, seaports and airports. SIGMA Extreme offers a larger fingerprint sensor with unique and patented fake fingerprint detection.

Benefits

Cutting-edge technology

Consistently ranked a top-of-the-range by NIST for its powerful algorithms, IDEMIA provides customers with a wealth of expertise in biometrics combining high-speed processing devices that can support large databases.

Security and privacy

Our devices provide fake finger detection and prevent duress finger authentication for maximum access control security. Their integrated tamper switch, database encryption and secure communication protect data privacy. Storing the biometric data on smart card is also possible.

Versatile integration

Each SIGMA model is designed for a use scenario with a unique deployment and operational management model. SIGMA devices are embedded with card readers to support Prox, iClass®, MIFARE®, MIFARE DESFire® and PIN codes.
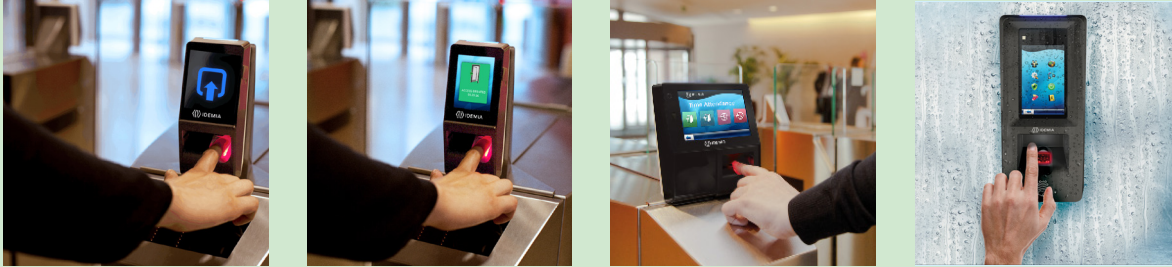
Why IDEMIA?

With more than 40 years of experience in biometrics and over 4 billion fingerprints managed worldwide, IDEMIA always achieves top-tier performance in independent tests worldwide (such as NIST evaluations) making it the undisputed leader in biometric technologies.

Our algorithms and sensor technologies, combined with our end-product design and manufacturing expertise, make us the partner of choice for the most prestigious organizations.

IDEMIA's solutions, encompassing contact and contactless fingerprint, hybrid vein/print and facial recognition readers, have been deployed in many industries worldwide.

〈|〉 IDEMIA

Fast, secure and reliable touch fingerprint technology

The SIGMA Range implements no fewer than 20 patents to master biometric identification. Enhanced with exclusive features like anti-fraud, fake finger detection and duress finger prevention, accuracy is maintained regardless of the number of users and it offers up to 1:100K identification in less than 1 second for regular users.

Even in tough environments, SIGMA Extreme guarantees maximum accuracy, with its patented electro-optical anti-fraud feature making it a terminal for use in the harshest outdoors conditions.

Main specifications

	SIGMA Lite	SIGMA Lite+	SIGMA Wide	SIGMA Extreme
Fingerprint capability				
Sensor size	14x22mm			23x23mm
User records	500, extendable to 3K or 10K		5K, extendable to 10K, 50K or 100K	
Duress finger prevention	√	√	√	√
Fake finger detection	Statistical images comparison			Patented electro-optical tech.
IDs in authorized user list	250 K			
Tansaction log capacity	1 million			
Model variants for contactless cards				
No card reader	√	-	-	-
HID® Prox	√	√	-	√
HID® iClass® Legacy SE/SEOS	√	√	√	√
MIFARE® & MIFARE DESFire®	√	√	√	√
User interactivity				
Screen	-	2.8''	5'' horizontal	5'' horizontal
Audio	Buzzer	Buzzer	Loudspeaker	Loudspeaker
video	-	-	√	√
Time & attendance	-	Basic	Full	Full
Environments				
Temperature	-20°C to 55°C (-4°F to 131°F)		-20°C to 60°C(-4°F to 140°F)	
Humidity	10% < RH < 80%			10% < RH < 95%
IP Rating	IP65			
Impact resistance	IK08	-	-	IK09
Dimensions	156 x 68 x 62 mm (6.14 x 2.68 x 2.44 in.)		153 x 151 x 58.5 mm (6 x 5.9 x 2.3 in.)	301 x 142 x 97 mm (11.85 x 5.59 x 3.82 in.)
Weight	280g (0.62 lb.)		~470g (~1 lb.)	~1.6kg (~3.5 lb.)
Shared specifications				
Network/communication	Ethernet, RS485, RS422, USB, WiFi			
Inputs/Outputs	Wiegand In & Out, OSDP, Door relay, GPI/GPO			
Power supply	12 to 24VDC, PoE			
Certifications	CE, CB, UL 294 Indoors, FCC, RoHS, REACh and WEEE			
Compatibility	Compatible with legacy Morpho and Bioscrypt existing installations			

🇺🇸 For US transport or federal applications, specific variants of SIGMA Wide and Extreme are available that meet TWIC requirements.

Get more technical information at **www.biometricdevices.idemia.com**

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