



What is hand geometry?



Hand geometry measures the size and shape of a user's hand to confirm identity. Over 90 distinct measurements are made each time to verify a user. These include length, width, thickness and surface area. It does not read fingerprints or palm prints.

Hand Geometry is often considered the most industrial biometric in the market as customers often report the reliability of the HandReaders because it accurately identifies employees in environments where dirt, dust, and wet conditions may limit the accuracy of other biometrics. Best of all, identity verification takes less than 1 second allowing for large groups of employees to verify quickly and efficiently.

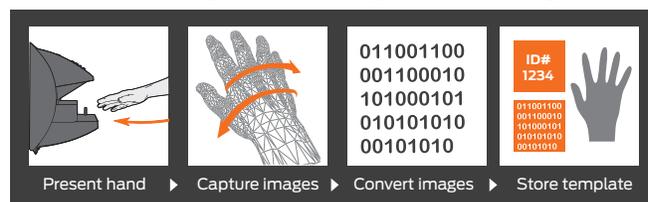
Hand geometry has been in use longer than any other biometric.

- Two-dimensional hand geometry devices were used in the 1970's
- Over 600,000 units installed around the world today

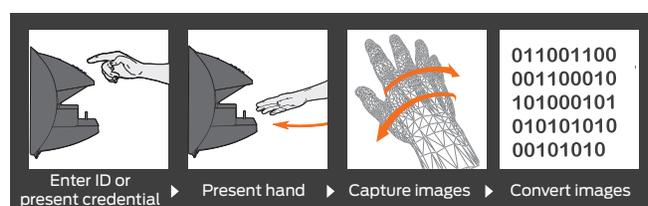
Biometric verification - how it works.

- Enter ID
- Place hand on blue outline on platen (hand placement surface)
- Camera captures the digital image of the hand
- Score is displayed upon a successful verification only
- The lower the score the closer the presented hand is to the stored template

Enrollment: This adds your biometric template to the HandKey.



Verification: Are you the same individual that was enrolled in the system?



Compare templates =

✗ No match
Identity rejected

✓ Match
Identity verified

How hand geometry compares to other biometrics

Technology	Advantages vs Hand Geometry	Disadvantages vs Hand Geometry
Fingerprint	<ul style="list-style-type: none"> False accept rate can be lower (depends on product) Pricing may be lower (depends on application) 	<ul style="list-style-type: none"> Larger template - fewer users per reader, so more readers needed Tend to have higher false reject rate (depends on product) Privacy issues/law enforcement association with fingerprints 1 in 50 people have unreadable fingerprints Sensitive to dirt, dry skin, etc.
Iris scanning	<ul style="list-style-type: none"> Low false accept rate (probably lowest of all biometrics) 	<ul style="list-style-type: none"> Higher false reject rate (despite claims made in literature) Larger template – fewer users per reader, so more readers needed Problems with lighting, eyeglasses and contact lenses Perceived as more intrusive
Facial	<ul style="list-style-type: none"> False accept rate can be lower (depends on product) Touch-free 	<ul style="list-style-type: none"> Larger template - fewer users per reader, so more readers needed Higher false reject rate Perceived as more intrusive Problems with lighting, eyeglasses, hats, hair styles, weight gain, facial hair

Why use HandReaders?

Using the HandPunch for workforce management applications can:

- Eliminate buddy punching to ensure the right people are clocking in and out
- Reduce compliance risk by managing accurate time records and breaks
- Reduce costs by eliminating credentials needed for a card based system

Using the HandKey for access control can:

- Ensure that the right person is getting access to the right location at the right time
- Increase security by using a biometric and adding a credential for multi-factor authentication
- Eliminate the worry of lost, stolen or unauthorized transfer of ID cards plus the cost of purchasing and maintaining these cards

Hand geometry is a time-tested solution for almost any industry.

- Hospitality
- Manufacturing
- Hospitals
- Healthcare
- Education
- Critical Infrastructure
- Constructions
- Financial Institutions
- Commercial
- Government



For more information, visit www.handreader.com or call 1-877-671-7011.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

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