

# PALMKI Automatic Registration Module



## Description & advantages

### Description

- The Automatic Registration Module (ARM) is an improved version of the existing standard registration module.
- When the 'Palm Vein Registration' is started in the corresponding PALMKI software, the ARM will automatically perform the palm scanning WITHOUT the need to remove the hand.
- The scanning procedure takes 16 seconds, during which the user only needs to relax his hand on the module.

### Current standard situation

- With the standard module, the user needs to position and remove his hand 4 times during registration.
- As a result, the procedure:
  - is very time-consuming (2 to 5 min.)
  - can be confusing for the user, leading to more time loss and frustration
  - results in the hand being positioned in different ways, leading to a loss in quality
  - is unpleasant for the user
  - is almost impossible to perform within an acceptable time frame if multiple people are waiting to register.

### Advantages of the ARM:

- This automated method leads to:
  - A throughput time of 1 minute, with the actual scanning process taking only 16 seconds.
  - A better registration of the palm because the hand can now remain in place.
  - A shorter, clearer explanation for the user, resulting in fewer misunderstandings that lead to time loss.
  - A less unpleasant feeling for the user because they know immediately what to do and how long it will take.
  - Less frustration for the registrant because the throughput process runs more smoothly and quickly for multiple users.



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#### Adjustments required for the ARM

- The standard registration module is equipped with a cover plate and a driving motor.
- The driving motor, controlled by the PALMKI software, will slide the cover plate over the sensor 4 times in a time span of 16 seconds.
- This will interrupt the scanning by the sensor, just like when the hand is removed during the standard procedure.
- The scanning process will resume when the driving motor slides the cover plate back from the sensor, just like when the hand is repositioned over the sensor during standard registration.
- After repeating this process 4 times, the PALMKI software will complete the registration and transform the various scans into a hashed code, which is then stored in a database.

#### New procedure

- The registrant explains to the user to position his hand on the ARM and to simply relax it for 16 seconds.
- Following this, the registrant initiates the 'Palm Vein Registration' in the PALMKI software.
- The scanning process starts automatically and stops after 16 seconds.
- The user removes his hand, and the registration process is completed, after which the scans are transformed into a hashed code and stored.
- The user can then present his hand to any PALMKI module in the network to gain access.

#### Conclusion: Advantages of ARM

- Simplicity in scan procedure
- No time loss and frustration
- Creates additional potential in domains where registration speed plays a decisive role, e.g. during check-in procedures in hospitality/hotels
- Self check-in/registration becomes possible due to this simplified process.

This innovation, developed by PERFECT ID © for the Standard Registration Module is undoubtedly an added value. For this purpose, the patent has been applied for (patent pending). This improvement will expand the potential customer base, especially in the hospitality domain. Additionally, the simplified procedure will have a positive impact on the broader acceptance of this technology in general.



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