



OPEN OPTIONS®
— ACCESS TECHNOLOGY —

ZKTeco Quick Start Guide



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The DNA Fusion™ Access Control Software and SSP™ Security System Processor use equipment that generates, uses, and radiates radio frequency energy. If not installed and deployed in accordance with the guidelines of this installation manual, they may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be required to correct the interference at their own expense.

The DNA Fusion™ Access Control Software and SSP™ Security System Processor shall be installed in accordance with this installation manual and in accordance with the National Electric Code (N.E.C), ANSI and NFPA 70 Regulations and recommendations.

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16650 Westgrove Dr | Suite 150

Addison, TX 75001

Phone: (972) 818-7001

Fax (972) 818-7003

www.ooaccess.com

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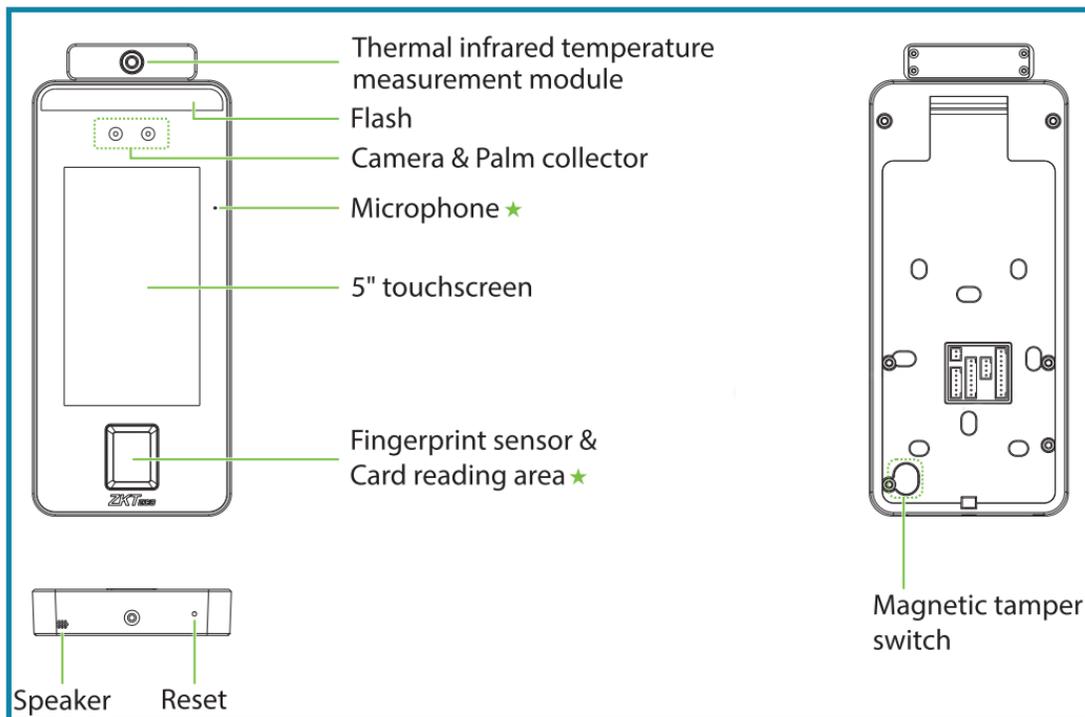
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ZKTeco SF1005-V+:

Quick Start Guide

This Quick Start Guide explains the process of wiring and configuring the ZKTeco SF1005-V+ with the DNA Fusion Access Control Software. To link the SF1005-V+ with DNA Fusion, an additional wiegand reader and cards are required for user registration.

SF1005-V+ Diagram



Installation

Installation Environment - The ZKTeco SF1005-V+ should be installed indoors and away from direct sunlight and exposure.

Step 1: Wiring the ZKTeco SF1005-V+ - Wire the Power In cables to power the device. For access controller communication, wire the Wiegand Out cables to the DAT / CLK (D1 / D0) terminal of the SSP controller.

NOTE: For user registration purposes, a wiegand reader needs to be wired to the SF1005-V+ to link with DNAFusion. The additional reader may be disconnected once the Badge Number is linked to DNAFusion.

Step 2: Adding a New User - Access User Mgt (Management) and select New User. Register any biometric and/or card information to the user's profile.

Step 3: Adding Verification Method - In the Access Control option, select Verification Mode and select the desired mode.

Step 4: Adding the ZKTeco SF1005-V+ in DNAFusion - Add the SF1005-V+ as a reader. Match the User profile from the SF1005-V+ to the Personnel profile in DNA Fusion.

Installation Environment

Follow these recommendations for the physical installation of the reader.

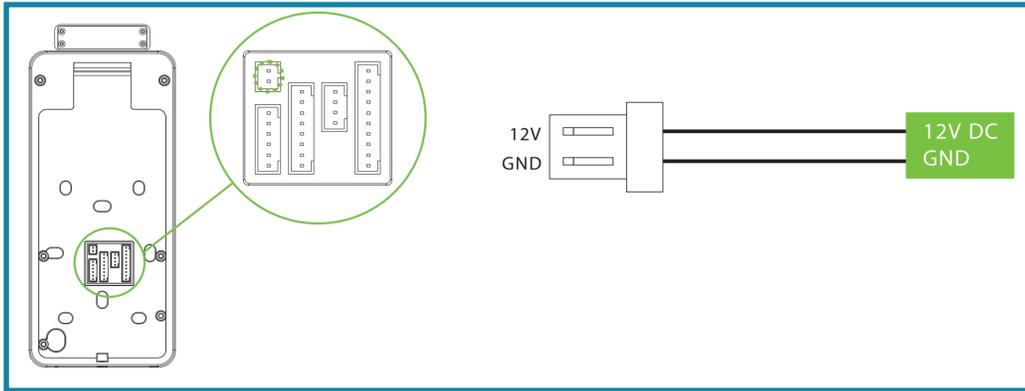
- Install Indoors
- Avoid Glass Refraction
- Avoid Direct Sunlight and Exposure
- Keep Away from Heat Source
- Effective Distance for Palm Scans: 30-50cm
- Effective Distance for Face Scans: 40-80cm

Wiring the ZKTeco SF1005-V+

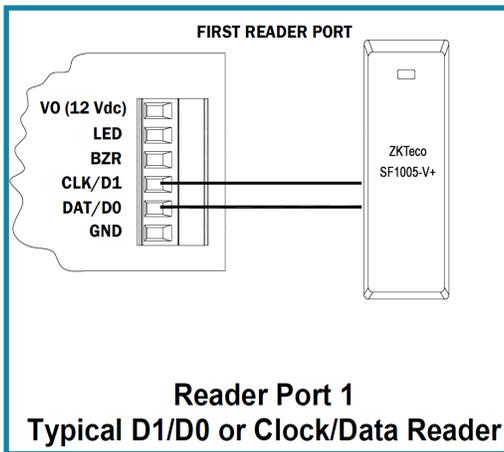
Follow the steps below to wire the ZKTeco SF1005-V+.

NOTE: The industry wiring colors do NOT apply to the ZKTeco SF1005-V+ wiring harness.

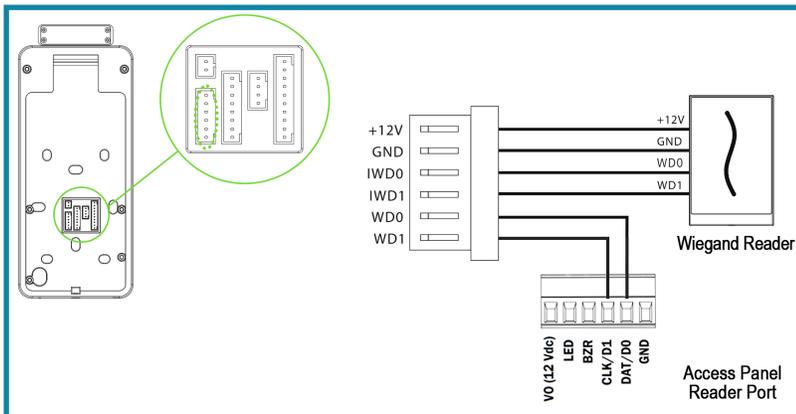
1. **Wire** the Power In (12V / GND) terminals to power the device.



2. To establish communication between the SF1005-V+ to the controller/sub-controller, **wire** Wiegand Out terminals to the DAT D0 / CLK D1 (Reader Port 1 or 2) terminals on the controller/subcontroller.



3. **Wire** the proximity reader to the SF1005-V+.
 - a. **Wire** the Wiegand In to the wiegand reader's power and data terminal.
 - b. **Wire** the Power Out (+12V / GND) terminals to the reader's power in terminals.

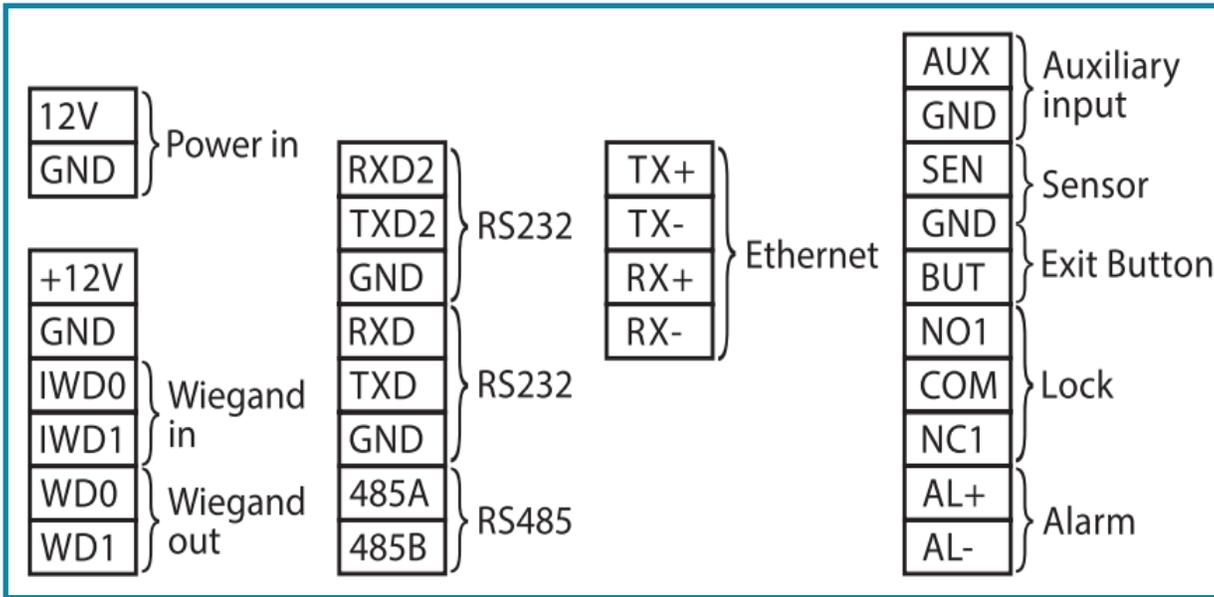


4. **Apply** power to the SF1005-V+.

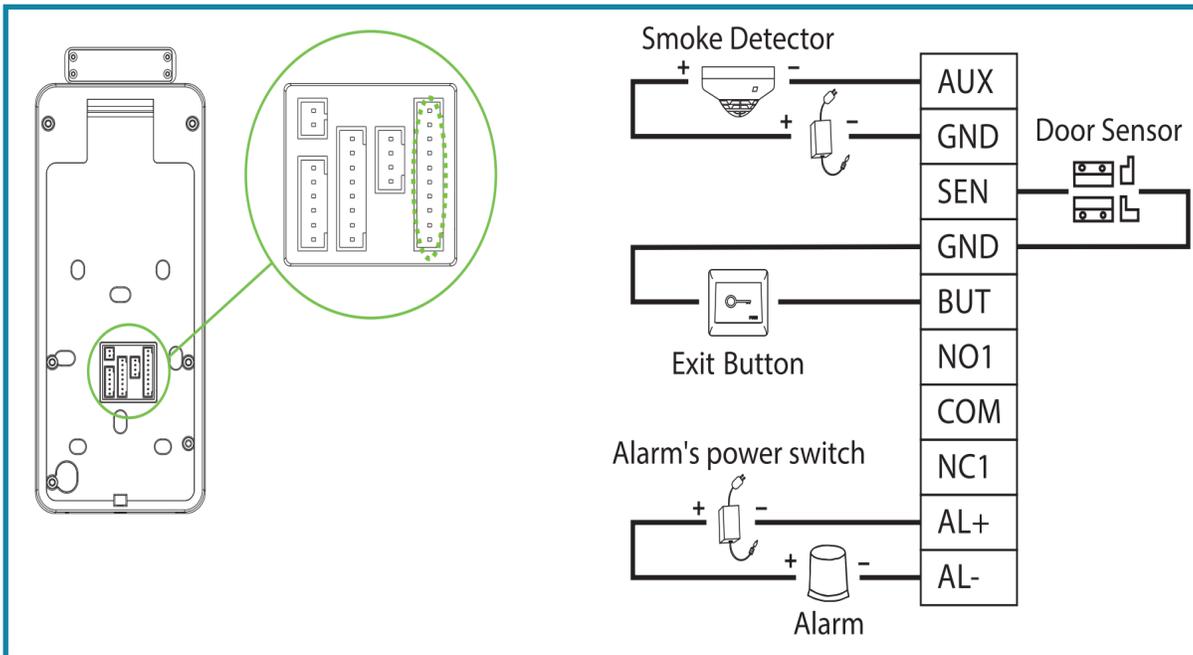
Additional Wiring

To wire any additional features to the SF1005-V+, see the diagrams below.

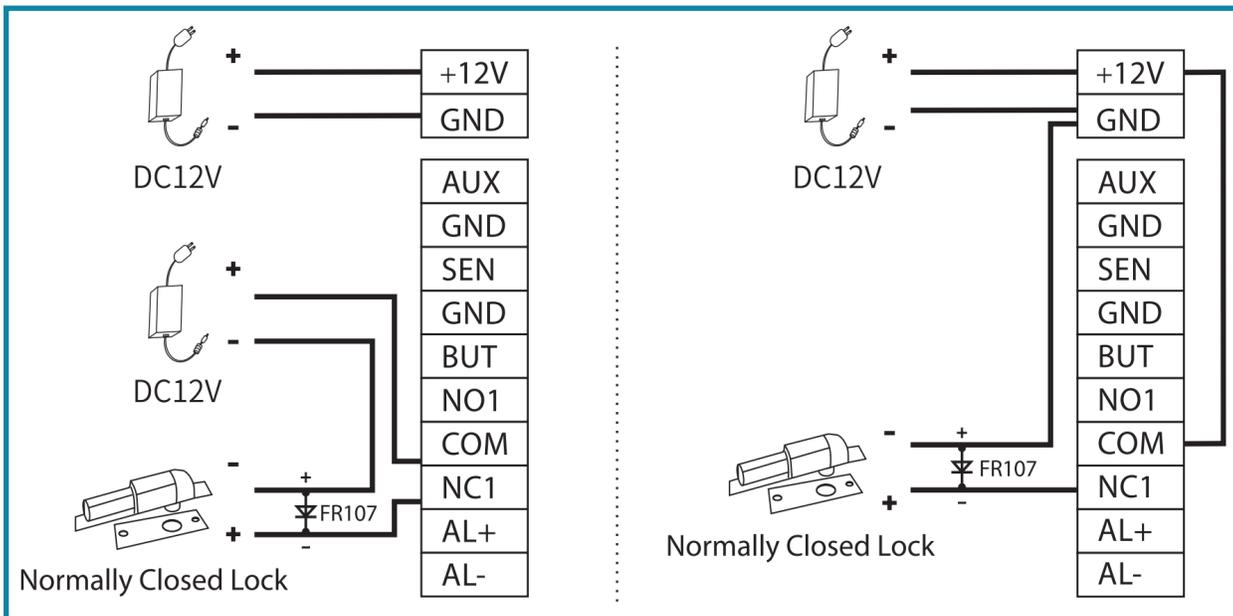
ZKTeco SF1005-V+ Wire Terminals



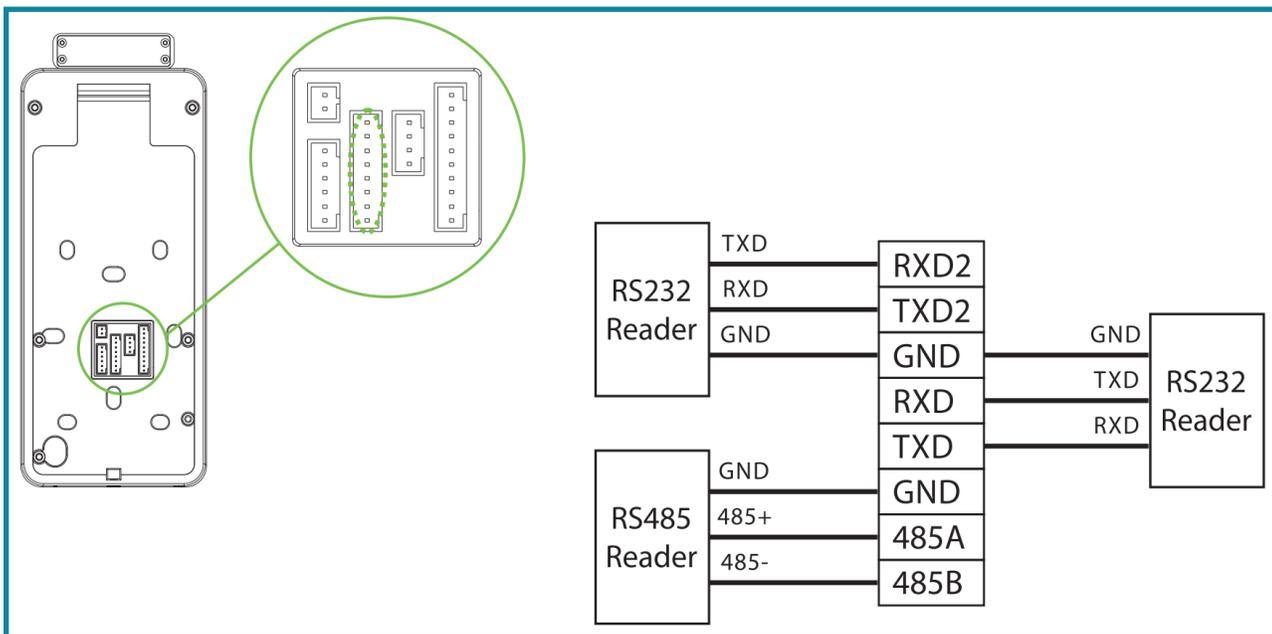
Exit Buttons, Sensors, and Alarm Connection



Lock Relay Connection



RS485 and RS232 Connection

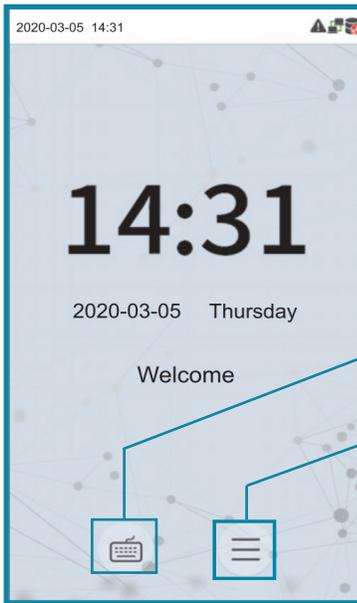


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Adding a New User

Once the SF1005-V+ is wired and powered, begin adding users to the device. See the following steps for instructions on adding users.

1. On the SF1005-V+, **select** the Main Menu icon .

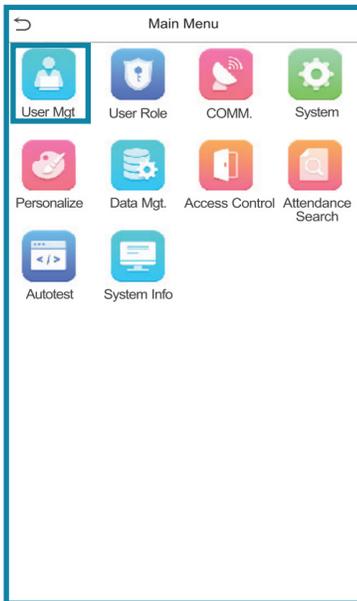


Keyboard icon. Used for Password verification.

Main Menu icon.

2. **Select** User Mgt.
3. **Select** New User.

The New User screen opens.



User ID	2
Name	
User Role	Normal User
Palm	0
Fingerprint	0
Face	
Badge Number	
Password	
User Photo	0
Access Control Role	



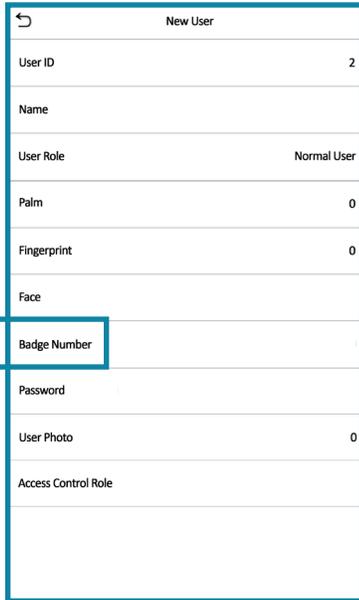
User Credential Enrollment

Each New User is assigned with a User ID. Selecting User ID will allow the user to change the ID number. Users have the option of setting up various biometric verifications to register to the reader. Setting the Badge Number verification is required to link DNA Fusion with the SF1005-V+.

NOTE: *At least one form of verification must be added before the user’s name is saved to the SF1005-V+.*

In the New User screen:

1. If a wiegand reader was configured with the SF1005-V+, **add** the card information to the Badge Number section.

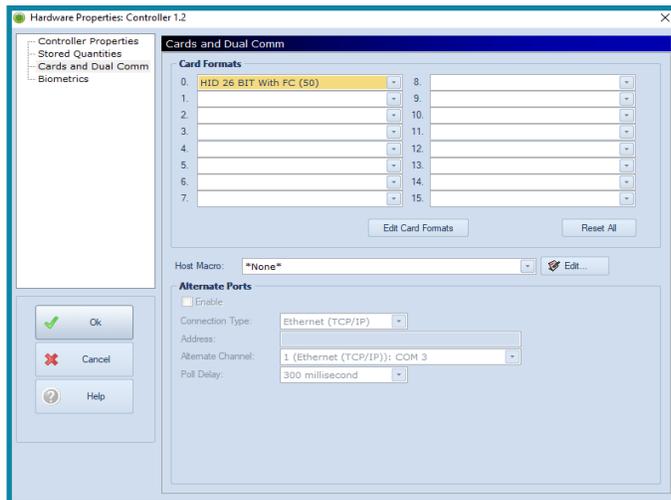


- a. **Select** Badge Number on the New User screen.
- b. **Present** card to the wiegand reader.

The card’s information will be assigned to the user’s profile.

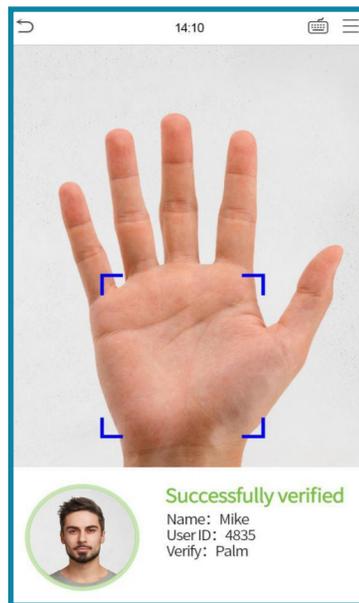
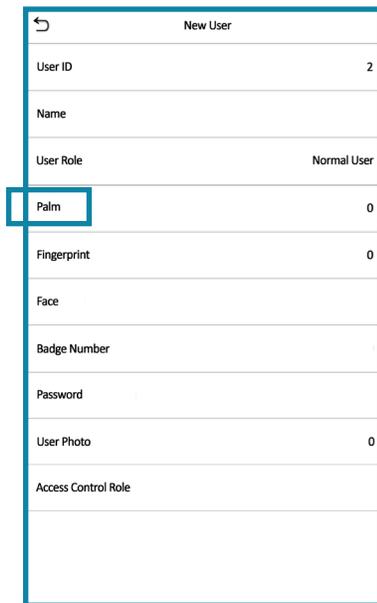
NOTE: *The Badge Number displayed on the New User screen will appear different in DNA Fusion. The Badge Number is NOT the same as the Card Number in DNA Fusion.*

- c. If needed, **add** the card format to Cards and Dual Comm in DNA Fusion.

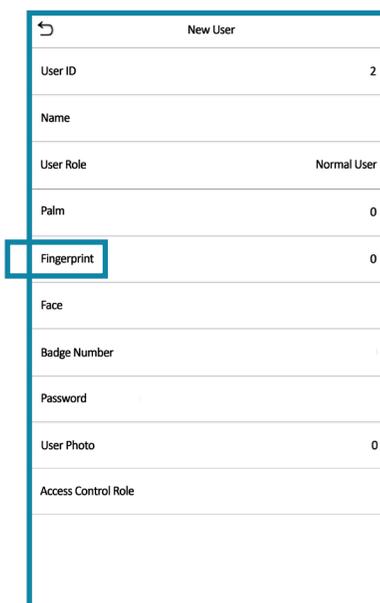


2. **Select** Name and enter the user’s name.
3. **Select** User Role and **select** a Role.
The user can be added as a Normal User or a Super Admin.
4. If needed, **add** the Palm verification.
 - a. **Select** Palm.
 - b. **Present** the new user’s palm to the SF1005-V+.
 - c. **Follow** the directions on the Enroll Palm screen.

The user’s palm will be authenticated once the progress bar at the bottom spans from one side of the screen to the other.



5. If needed, **add** a Fingerprint verification.
 - a. **Select** Fingerprint.
 - b. **Place** the new user’s index finger to the fingerprint scanner that is located below the screen.
 - c. **Follow** the directions on the Enroll Fingerprint screen.



6. If needed, **add** a Face verification.
 - a. **Select** Face.
 - b. **Present** the new user's face to the SF1005-V+.
 - c. **Follow** the directions on the Enroll Face screen.

The user's face will be registered once the progress bar at the bottom spans from one side of the screen to the other.

New User	
User ID	2
Name	
User Role	Normal User
Palm	0
Fingerprint	0
Face	
Badge Number	
Password	
User Photo	0
Access Control Role	

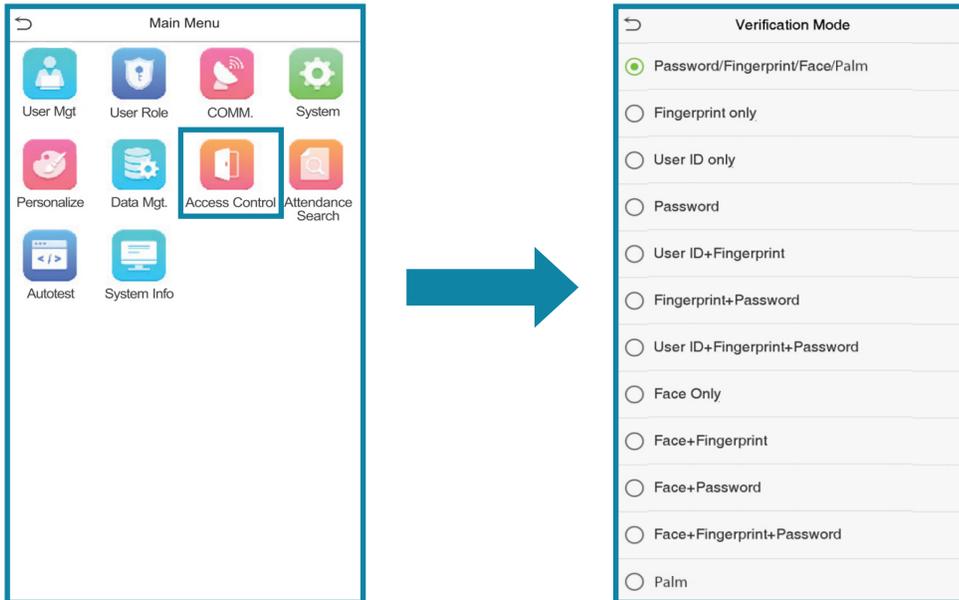


7. If needed, **add** a Password.
 - a. **Select** Password.
 - b. **Enter** a password.
 - c. **Verify** the password.

Adding Verification Method

The SF1005-V+ allows the user to use multiple verification methods or combine verification methods.

1. In the Main Menu, **select** Access Control > Access Control Options > Verification Mode.
2. **Select** an option shown on the screen.



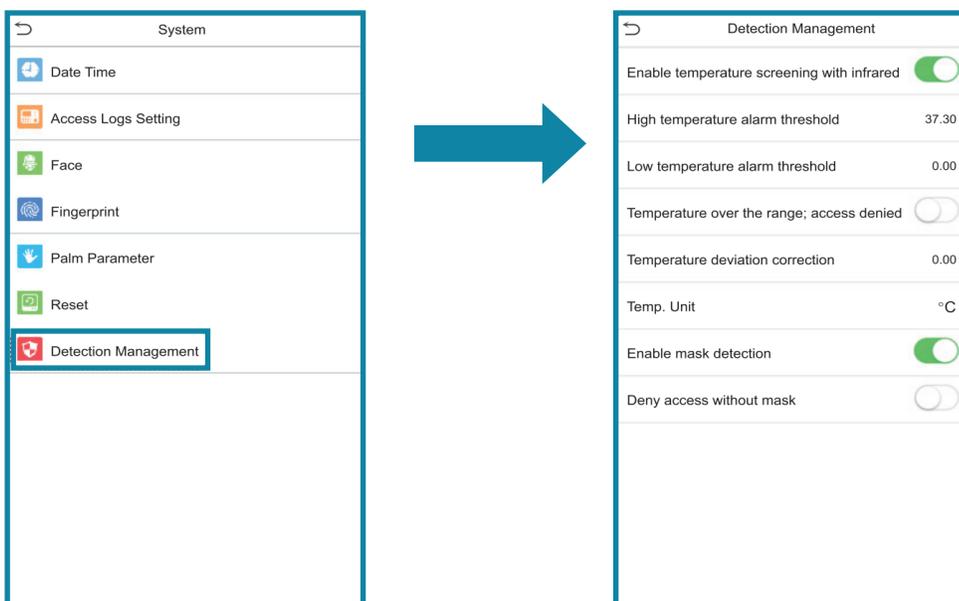
Additional Parameters

Additional parameters can be set in the SF1005-V+. Parameters like temperature screening can be enabled through the Detection Management screen.

NOTE: The parameters mentioned in Additional Parameters are monitored in the SF1005-V+. Adjustments for these parameters are not required in DNA Fusion.

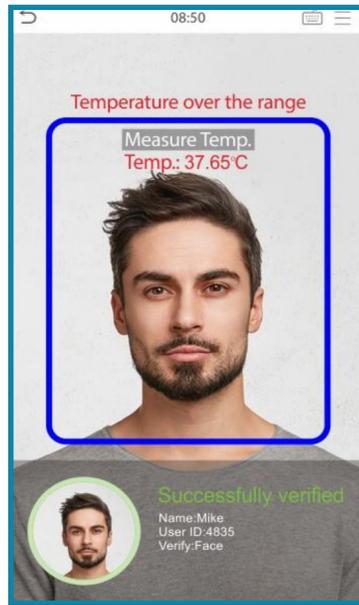
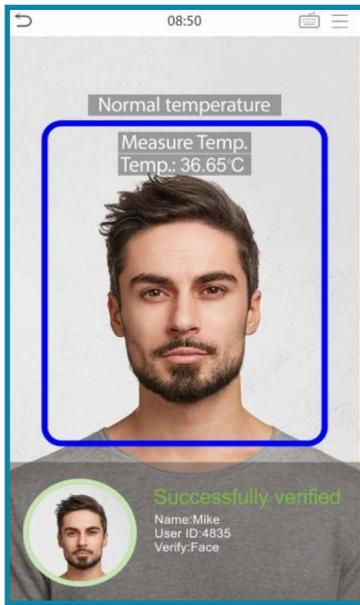
To access the Detection Management screen:

1. **Select** the Main Menu icon.
2. **Select** System.
3. **Select** Detection Management.

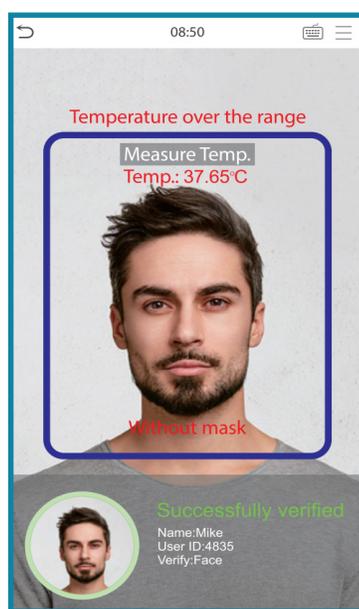
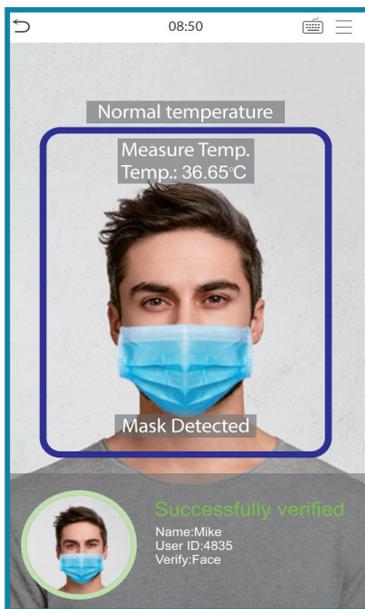


4. If needed, **select** Enable temperature screening with infrared.

Enabling temperature screening allows for monitoring of the user's body temperature.



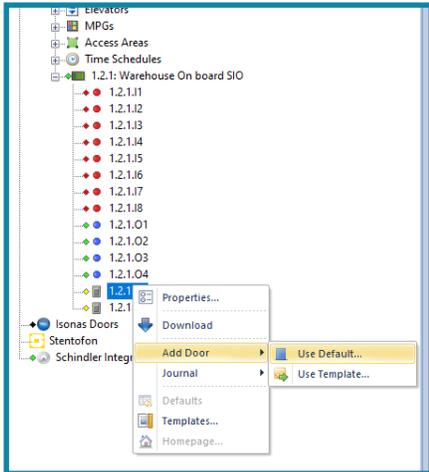
5. If needed, **select** Enable mask detection.



Adding the ZKTeco SF1005-V+ to DNAFusion

To add the SF1005-V+ to DNA Fusion, expand the SIO tree (either an SSP On-board or a separate SIO) and add the SF1005-V+ as a reader. A profile must also be created in DNA Fusion before the user can gain access to the door.

1. **Open** DNA Fusion.
2. **Expand** SIO (subcontroller/On-board subcontroller) tree.



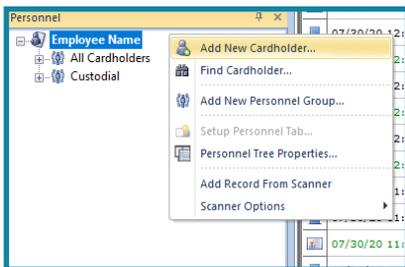
3. **Right-click** on a DNA Access Control Reader and **select** Add Door > Use Default.

Adding a New User to Personnel Properties

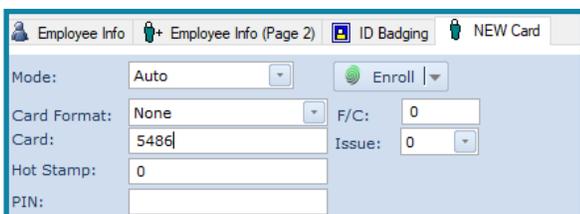
If a New User needs a personnel profile in DNA Fusion, follow the steps below to add the new user to the Personnel Properties.

In DNAFusion:

1. **Right-click** on the Personnel browser.



2. **Select** Add New Cardholder.
3. In the Employee Info tab, **enter** desired information.
4. If needed, **add** the cardholders ID (Ex. 5486) in NEW Card tab.



5. **Add** any additional Card information.



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16650 Westgrove Dr | Suite 150
Addison, TX 75001

Phone: (972) 818-7001

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