

dormakaba 9160-K5 Face Recognition Terminal User Manual

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USER MANUAL

1. Product description

1.2 Overview





Modern finish design ,8-inch LCD Touch screen . High-speed processing and a large storage capacity make the terminal a powerful range: 1:30,000 user identification is carried out in 1 second.

Technology & Function:

The dormakaba 91 60-K5 Face Recognition Terminal can be easily integrated into building structures. It has large screen ratio which supports 1:N or 1:1 face authentication.

The devices embed a web server enabling on-device enrollment, terminal configuration and transaction log retrieval. For scenarios requiring the use of contactless cards, the series also features multiple card reader or QR code reader

1.2 Technical Data

1.2.1 System

linux: gcc-arm-8.3-2019.03-x86_64-arm-linux-gnueabihf

1.2.2 Operating mode

Connect Discern Software for online or standalone.

1.2.3 RFID/Temperature Measurement

- RFID Reader Only(Legic&Mifare)
- RFID Reader with QR Code (Legic&Mifare)
- · QR Code Only.
- Infrared Imaging Temperature Measurement Set

1.2.4 Power supply

Rated voltage: 12V DC 1.8A

1.2.5 Inputs/outputs

- Network* 1
- USB* 1
- Tamper* 1
- Wiegand* 1
- Realy output* 1 Input Single* 2

1.2.6 Ambient conditions

• Operat ing temperature: -20°C ~ + 70°C

• Relat ive humidity: 10% – 90% (non-condensing)

Waterproof level: IP66

1.2.7 Dimensions

All dimensions in mm.

- 237mmL x 133mmW x20.8mmH
- Wall dimension drawing





Mounting dimensions of bracket without temperature measurement





Dimension drawing of module with temperature measurement







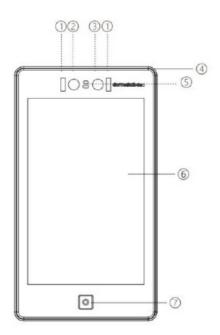


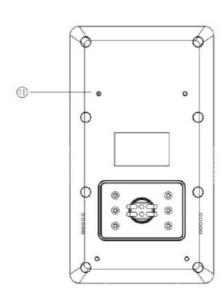
Mounting dimensions of bracket with temperature measurement



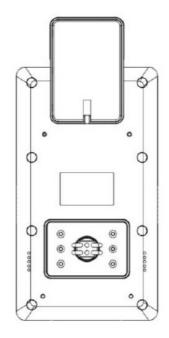


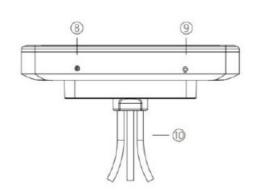
1.4 Featrue structure











- 1. Infrared fill light
- 2. RGB Camera
- 3. Infrared Camera
- 4. Indicator feedback signal
- 5. Infrared sensor module
- 6. 8 Inch Touch Screen
- 7. Card reading area
- 8. Bottom fixing screw
- 9. Bottom fixing screw wiring
- 10. Backplane fixing screw
- 11. Temperature measurement module

1.4 Labeling

The identification plate is located on the underside of the device. The identification plate contains:

- Device name
- Item number
- Serial number
- Connection data (power supply)

2 Installation

2.1 Installation Lines

2.1.2 Power Supply Cable

Power is normally supplied to the 9160 terminal by the seperate power supply. In case of long lines, the voltage drop due to line resistance will need to be considered.

2.1.2 Data lines

Recommended cable: CAT.5 or higher.

Data transmission is mainly network data transmission.

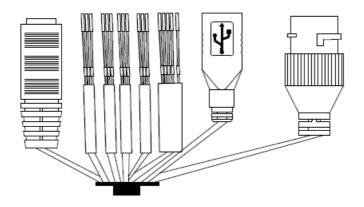
2.1.3 Connections

Recommended cable: RVVP 2* 1.0 or higher.

The following connect ions should be present at the installat ion locat ion:

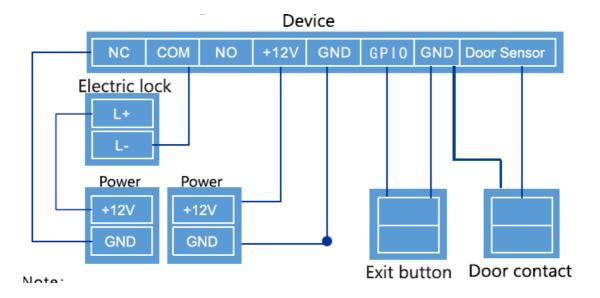
- Ethernet cable, with RJ45 plug
- · Power supply cable
- Lines to electric strikes and opener key.
- Lines to the Wiegand Interface

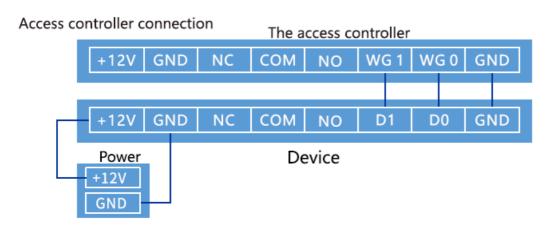
PRODUCT WIRING



Wire function introduction
Power: 12v DC 1.8A
P2 Relay Output: NC、NO、COM
P3 Wiegand: D0, D1, GND
P4 RS 485: 485A、485B、GND (not use)
P5 Uart: TXD、RXD、GND
P6 Sensor Input: RECOVERY、Door Sensor、GPIO、REX、GND
USB: USB 2.0
RJ 45: 10/100Mbps

Electric Lock Wiring





Note: The combination of NO and COM is normally open, while that of NC and COM is normally closed. The main equipment needs to use our power supply for independent power supply.

3. Start-up and commissioning

3.1 Start-up

Start-up and communication in regular operation are done via an Ethernet network. Power Suppply: DC12V 1.8A The firewall configuration must therefore be adapted accordingly. Without temperature measurement



With temperature



3.2 System Activation and login

System-specific settings, connection settings, such as assignment of a fixed IP address, can be made via the 91 60 system settings.

Activate the 91 60 system settings

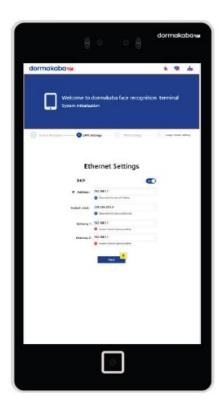
- 1. Start the terminal.
- 2. If the 9160 is started for the first time, the system prompts you to activate it.
- 3. After the startup is complete, the main activation screen is displayed.



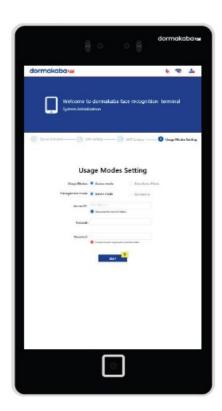
Step 1: The first login screen will prompt you to set the language to be used



Step 2: Set the account and password, enter the account password you need to set



Step 3: Set up network configuration



Step 4: User mode default is Access mode. Attendance mode is currently disabled.

Management mode

Server mode is to use software to configure the device(for example DISCERN) Standalon mode is the local configuration device

Server IP and account is the configured server connection address and account information

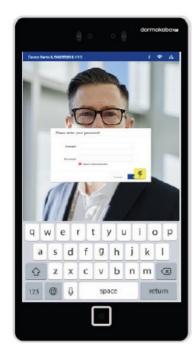
3.3 Device Local Management

Local Settings contain device parameters and some local configuration.

- 1. Personnel management
- 2. Logbook
- 3. Face Control
- 4. Parameter Setting
- 5. Peripherals
- 6. About

Login the 91 60:

In the upper right corner of the 91 60 screen, hold down the screen. The login screen is displayed. Enter your account and password to enter the main screen







Menu options

3.3.1 Personnel management

The personnel management mainly consists of the locally add personnel photo , the local badge number and the output of Weigen number

1. The action menu is displayed after successful login and select the Personnel management



1.Click the button to add the person



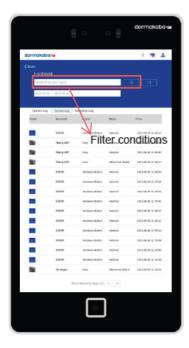
2.Input the information to add



3. Take photo

3.3.2 Logbook

Logbook mainly display local access log and system log and exception log 1. The action menu is displayed after successful login and select the Logbook



1.Enter the employee ID or name to filter logs



2. View Select a log type

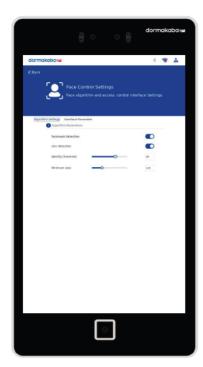


3. Event description and time

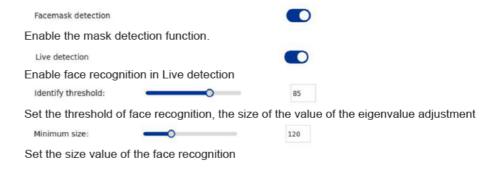
3.3.3 Face Control

Face Control is includes Face algorithm and access control interface Settings

1. The action menu is displayed after successful login and select the Face Control



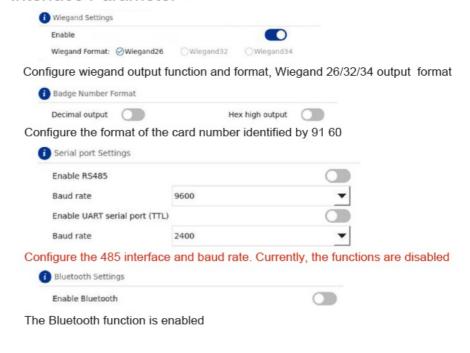
Algorithm Parameters:

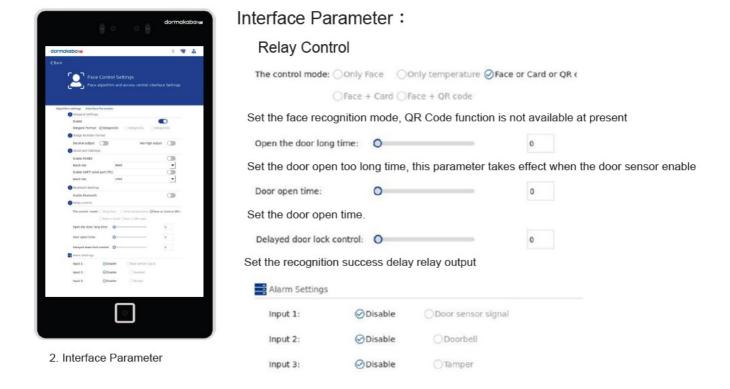


1.Algorithm settings



Interface Parameter:





Input 1: Set the door sensor fuction is enable.

Input 2 function is not available at present

Input 3 function is not available at present

3.3.4 Parameter Setting

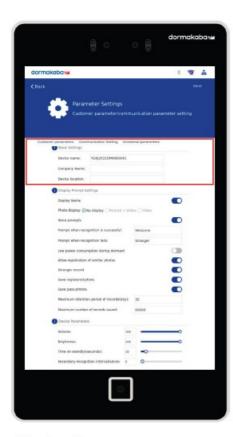
Parameter Settings include Customer setting and Communicationsetting and Universal setting The action menu is displayed after successful login and select the Parameter Settings

- 3.3.4.1 Customer Parameters
- 3.3.4.2 Communication Settings
- 3.3.4.3 Universal Settings

3.3.4.1 Customer Parameters

Customer Parameters include Basic settings and Display Settings

1. The action menu is displayed after successful login and select the Parameter Settings—Customer Parameters



Basic Settings:

Device name:	YGKJ2021DM0800001
Device Name [Description
Company Name:	
Company Nam	ne Description
Device location:	
Description of	the device installation position

1.Basic settings



2. Dispaly settings

Dispaly Prompt settings: Display Name

Enable the function to display the name of the person after the successful face verification

Photo display: ⊘No display ○ Portrait + Video ○ Video

Select whether to display photos after face verification or enable the temperature measurement function to display thermal imaging thumbnail images



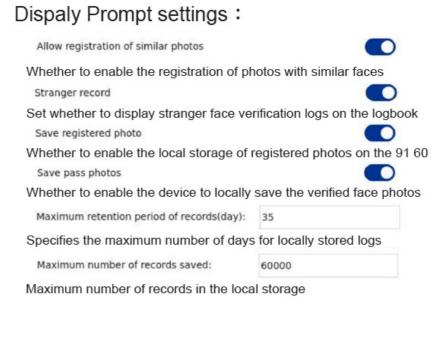
The text message displayed on the screen when the face is verified for success and failure

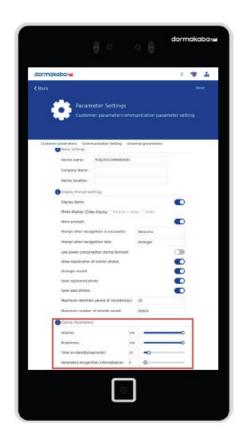
Low power consumption during dormant

Whether to enable low-power mode, 91 60 disable some functions in idle state , such as NFC/Infrared light of the device.



2. Display settings





3.Device Parameters

Sound volume Settings for the device Brightness: Adjust the brightness of the device Time on standby(seconds): Set the standby time of the device Secondary recognition interval(secondocuments)

Device Parameters:

The interval between recognition

3.3.4.2 Communication Setting

Communication Settings mainly include IP address and communication interface server address Settings

1. The action menu is displayed after successful login and select the Parameter Settings-Commnication setting



Ethernet Settings:



Set the IP address of the device and enable the DHCP function

1.Ethernet Settings



Host Configuration:

Host Config	guration	
Server IP:	http://10.201.8.240:8089	
Account:		
Password:		

Set the address, port, account and password of the communication server (such as DISCERN or third-party interface software).

2. Host Configuration

3.3.4.2 Communication Setting

Communication Settings mainly include IP address and communication interface server address Settings 1. The action menu is displayed after successful login and select the Parameter Settings—Communication setting



Ethernet Settings:



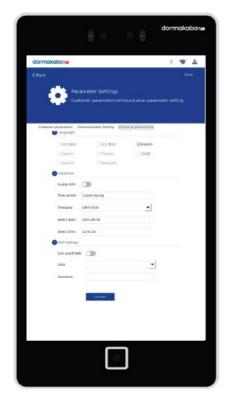
Set the IP address of the device and enable the DHCP function

1.Ethernet Settings

3.3.4.3 Universal Parameters

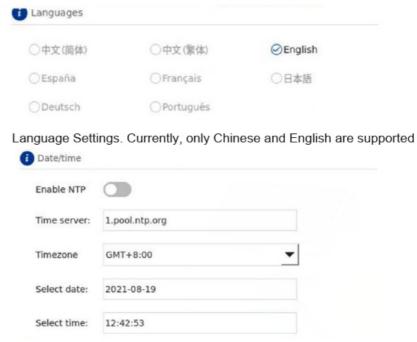
Universal Parameters include the local language, NTP server Settings

1. The action menu is displayed after successful login and select the Parameter Settings-Universal Parameters



1.Languages and Data/Time settings

Languages and Data/time settings:



Set the time synchronization server

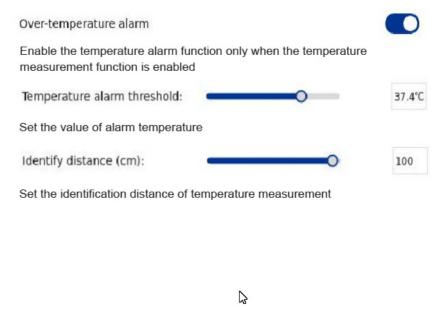
3.3.5 Peripherals

Peripherals mainly include how to enable and configure the temperature measurement function.

1. The action menu is displayed after successful login and select the Peripherals-Temperature Parameters



Algorithm Parameters:



1.Algorithm Parameters



2. Thermal sensor settings

Thermal sensor settings:

Enable the temperature measurement function

Black Body

In general, the verification function is not required. The boldbody verification function is used only in the case of inaccurate temperature measurement Warning: The black body caliration procedure is only for professionals to operate.

Wrong operation will cause inaccurate body temperature measurement.

Double light

function is used only in the case of inaccurate temperature measurement

In general, the Double lighe is not required. The Double lighe verification

Wrong operation will cause inaccurate body temperature measurement.

Warning: The double light caliration procedure is only for professionals to operate.

3.3.6 About

About mainly include About includes basic device information (model, serial number, and MAC address), APP update, and firmware upgrade.

3.3.6.1 Basic Device Information

Basin Device Information includes: Device model, serial number, MAC address, device version, and activation code information.

1. The action menu is displayed after successful login and select the About.



Basic Device Information:



Use activated device purpose

1. The action menu is displayed after successful login and select the About-Modify activa

The device is delivered with an activation code. If the device does have an activation code, you need to contact the manufacturer to obtain the activation code and enter the activation code to activate the device while keeping the device connected to the Internet

3.3.6.3 Update

Update the 91 60 APP version

1. The action menu is displayed after successful login and select the About-Update



1.Update

Update:

Steps to update your APP

- 1.Copy the attachment "xxxxx.tar.gz" to the root directory of U disk
- 2.Rename xxxxx.tar.gz to "update_app.tar.gz" on your USB drive
- 3.Insert the U disk into the USB interface of the 9160
- 4.Keep touching the upper right corner of 9160 to display the login interface (Enter the account and password for initializing the device for the first time)
- 5. About-Update

Note:You can update APP versions with interfaces (e.g. DISCERN and third-party interface software)

3.3.6.4 Firmware Upgrade

Upgrade the 91 60 firmware version

1. The action menu is displayed after successful login and select the About-Firmware Upgrade



1. Firmware Upgrade

Firmware Upgrade:

Steps to update your firmware

- 1. Copy the attachment "xxxxx.img" to the root directory of U disk
- 2. Rename xxxxx.img to "update.img" on your USB drive
- 3. Insert the U disk into the USB interface of the 9160
- 4. Keep touching the upper right corner of 9160 to display the login interface (Enter the account and password for initializing the device for the first time)
- 5. About-Firmware Upgrade

Note: After the firmware is updated, the device needs to be reactivated. Please back up the activation code of the device

3.3.6.4 Restore the factory

Restore factory Settings will clear the local Settings and account information

1. The action menu is displayed after successful login and select the About-Restore factory



1. Restore the factory

Restore factory:

Restore factory Settings will clear all data of the 91 60, and you need to initialize the device to set the account and password of the 91 60.

3.3.6.5 Restore default

Restore Default will Clear user Settings and restore the device to factory default Settings.

1. The action menu is displayed after successful login and select the About-Restore default.



1.Restore default

Restore default:

Restore Default Settings Clear user Settings and restore the device to factory default Settings.

4. Troubleshooting

Trouble List	Solution
No Response when Power Up	 Discount the power and confirm that the power supply cable is correctly connect ed (See "Wiring" above). Check the input voltage is sufficient (See "Specifications" above).
Auto Restart	Check the input voltage is sufficient (See "Specifications" above).
Cannot read card n umber correctly	 Check the format setting on the controller if it is the same as the card format. Use approved card (known format and Facility Code) to test. Check if the shield cable is correctly connected to Classis Ground at ONE point only.
Reader beeps but N o card data info	 Check if data 0 & data 1 cable is correctly connected (See "Wiring" above). Check the input voltage at the card reader end is correct (See "Specifications" above).

Specifications

• System: Linux:

gcc-arm-8.3-2019.03-x86_64-arm-linux-gnueabihf

• Operating Mode: Connect Discern Software for online or standalone

• RFID/Temperature Measurement: Included

Power Supply: Not specifiedInputs/Outputs: Not specified

· Ambient Conditions: Not specified

• Dimensions: Details available in the user manual

FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirment. The device can be used in portable exposure condition without restriction.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- —Reorient or relocate the receiving antenna.
- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- —Consult the dealer or an experienced radio/TV technician for help.

FAQ

Q: What should I do if the terminal does not recognize my face?

A: If the terminal does not recognize your face, ensure that you are positioned correctly in front of the camera and that there is adequate lighting. You may also need to re-enroll your face in the system.



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9160-K5 Face Recognition Terminal, 9160-K5, Face Recognition Terminal, Recognition Terminal, Terminal

References

• User Manual

Manuals+, Privacy Policy

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