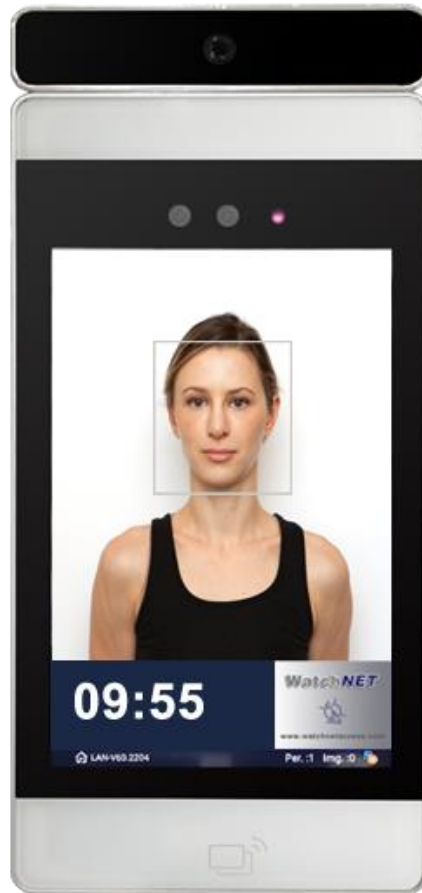


User Manual

Thank you for choosing WatchNET Face ID



WAF-428DT Face Recognition Body Temperature Check

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Chapter 1 Introduction

1.1. Overview

Face recognition system by WatchNET with built-in body temperature check for detecting users with abnormal high temperature, based on advanced technology IR sensor for high-speed and high accuracy performance. Special settings allow recognizing faces with medical masks on and eliminating the need to remove the mask during the recognition process. Access denied settings for valid credential with high temperature.

1.2. Features

- Reliable 3 D face recognition based on dual cameras
- Body temperature check using IR Sensor
- Access denied and alarm notification for high temperature detection
- Optional face recognition for faces with medical masks on, no need to remove the mask for the recognition process.
- Built for 10,000 user face template local storage aluminum alloy construction durable and sleek
- IP54 waterproof standard for accidental spills
- Fully compatible with WatchNET Access software

1.3. Appearance



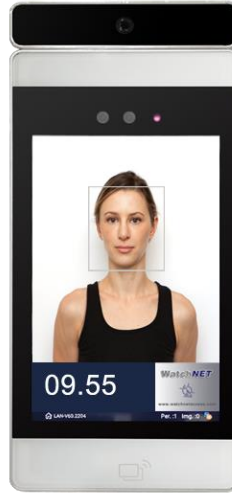
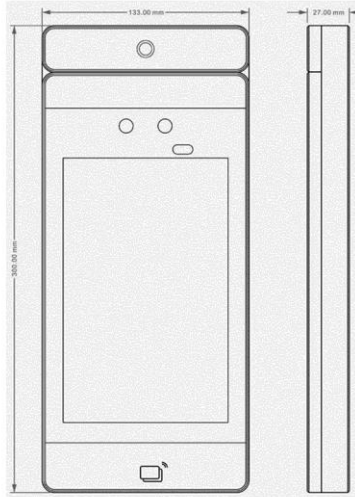
1.4. Specification

WAF-428DT Face Recognition		
Camera	Resolution	1920 x 1080 pixels
	Types	RGB, infrared dual camera, 1/2.9" progressive scan CMOS
	Aperture	F2.4
	focal length	5.8mm, field of view angle of 67 degrees
	White balance	Auto, wide dynamics, backlight compensation, strong light suppression, digital noise reduction
Screen	Size	8-inch, IPS LCD screen
	Resolution	1280 x 800 pixels
Processor	CPU	4 cores, 1.8 GHz
	Local storage	2GB of memory, 8GB of storage
Accessories	Fill light	Infrared, LED fill light (Motion activated)
	Card reader module	IC card reader (Mifare)
	Network module	Support wired, wireless (WiFi)
Interface	Audio	1 channel audio output (line out)
	Wired network interface	2.5mm terminal block 4P

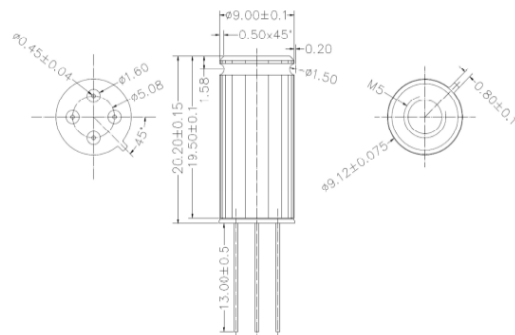
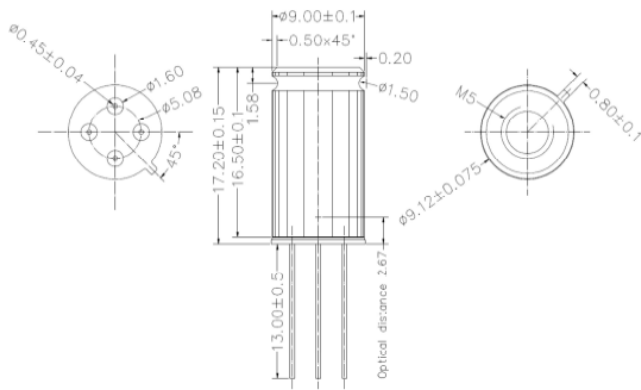
	USB interface	USB 2.0 Type-A interface
	Serial communication interface	RS232 serial port, 2.5mm terminal block 4P
	Relay output	2.5mm terminal block 3P
	Wiegand interface	2.5mm terminal block 2P
	Reset interface	RESET on the back of the device
Features	Face capacity	10,000 Templates
	Face detection	Supporting detection and tracking of 5 people at the same time
	Face recognition accuracy	99.99%
	Unknown face	Detects unknown personals (Not enrolled)
		Support
	Recognition distance	Configurable distance settings up to 1.5m / 4.92ft
	UI interface configuration	Built in User interface
	Remote upgrade of equipment	Upgrade Through LAN
	Device interface	Interface includes device management, personnel/photo management, record query, etc.
	Deployment method	Third party software support with SDK
Temperature	Thermal detection	28 ⁰ C~43 ⁰ C / 82.4 ^{0F} ~109.4 ^{0F}
	Accuracy	±0.4 ⁰ C
	Minimum distance	50cm / 1.64ft
	Protection level	IP54 dustproof and spill proof
	power supply	DC12V (±10%), 2A
	Operating temperature	-10 ⁰ C-50 ⁰ C / 14 ⁰ F-122 ⁰ F
General parameters	Working humidity	10%~90%
	Power consumption	15W MAX
	Installation method	Wall-Mount, Pole for turnstile
	Equipment size	300mm × 133 mm × 27 mm 11.81" × 11.81" × 1.06"
	Weight	≈ 2kg / 4.41lb

1.5. Dimension

Device



Temperature module



Chapter 2 Installation / User manual

2.1 Wiring and connections

Wired Network:

Red	ETHTX+	-----	1
Black	ETHTX-	-----	2
White	ETHRX+	-----	3
Green	ETHRX-	-----	6

Serial output for temperature module:

Gray	232-RX	-----	Module TX
Purple	232-TX	-----	Module RX
Black	GND	-----	Module GND

Wiegand Output:

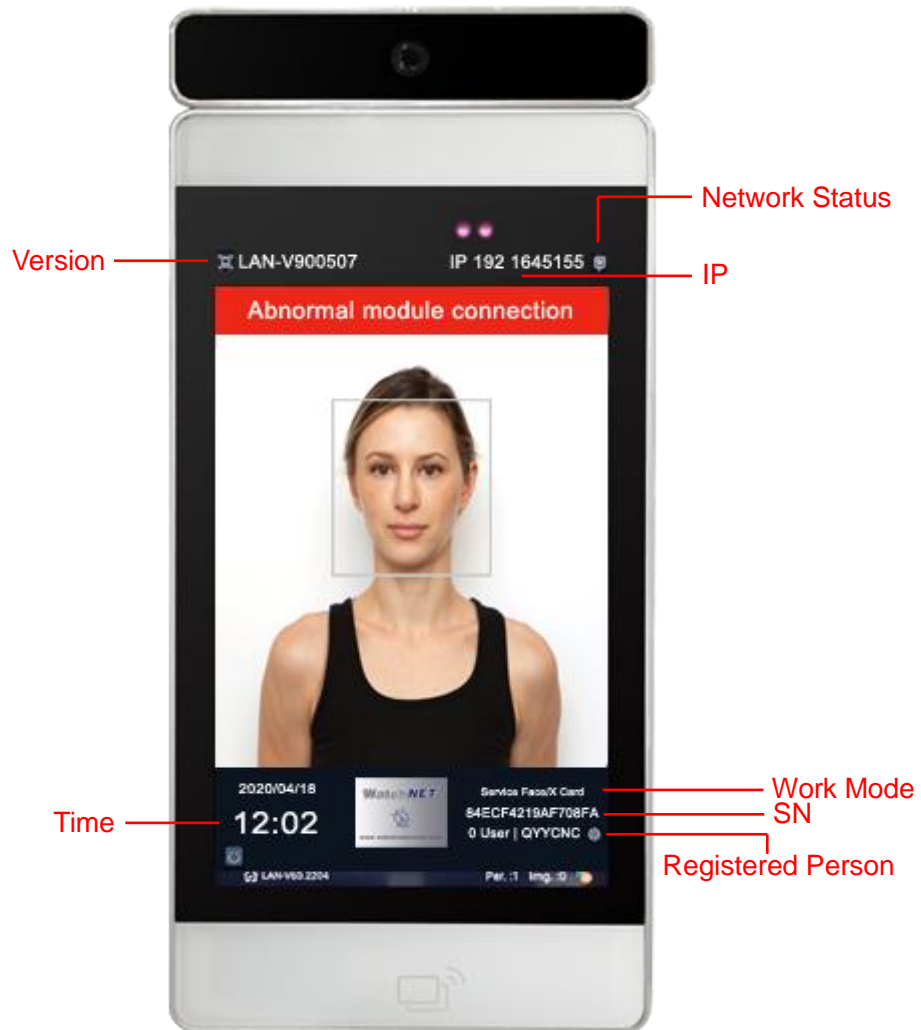
Green D1 Blue: DO Black: GND

Relay Output:

Red COM Yellow: NO White: NC

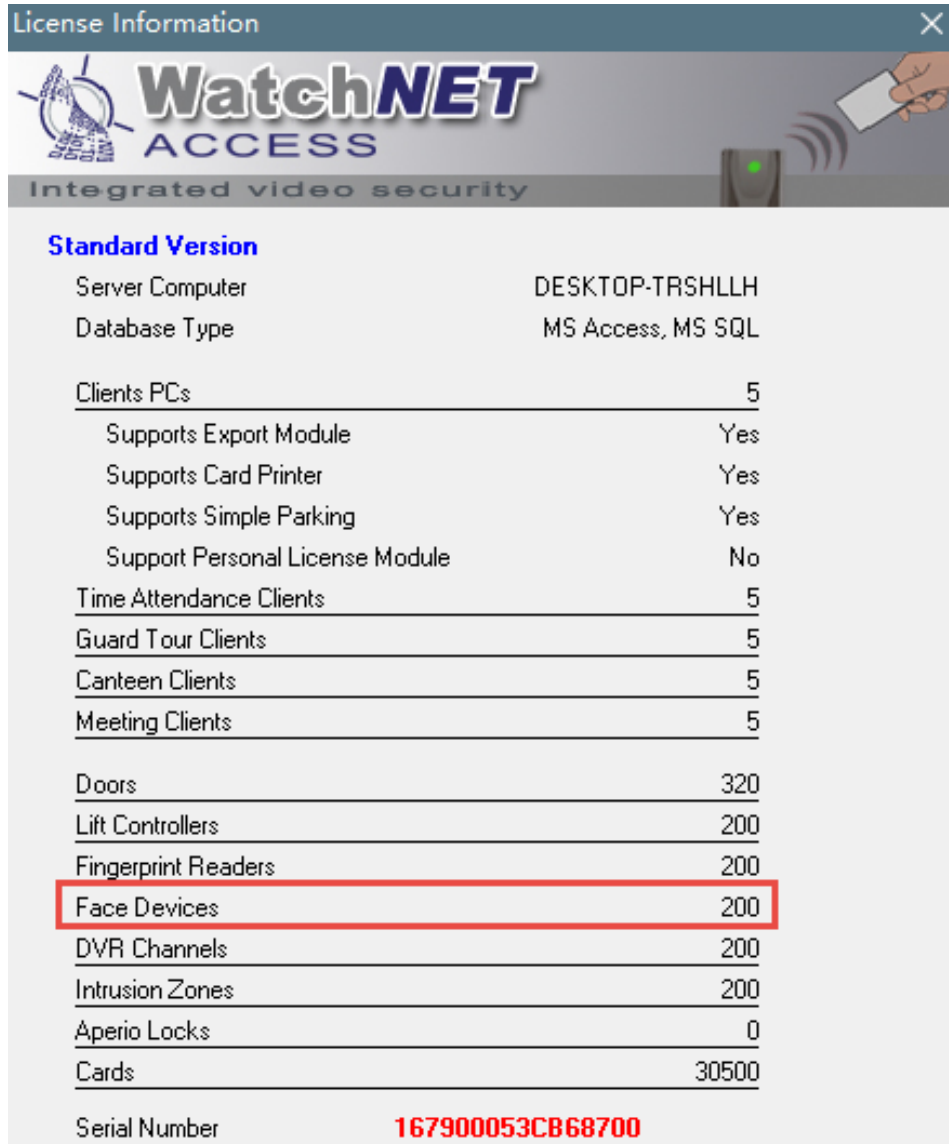
2.2 Screen description

Before powering up the device please make sure the connections are tight and firm, right power supply is used (12V DC 3 Amp) and network is available.



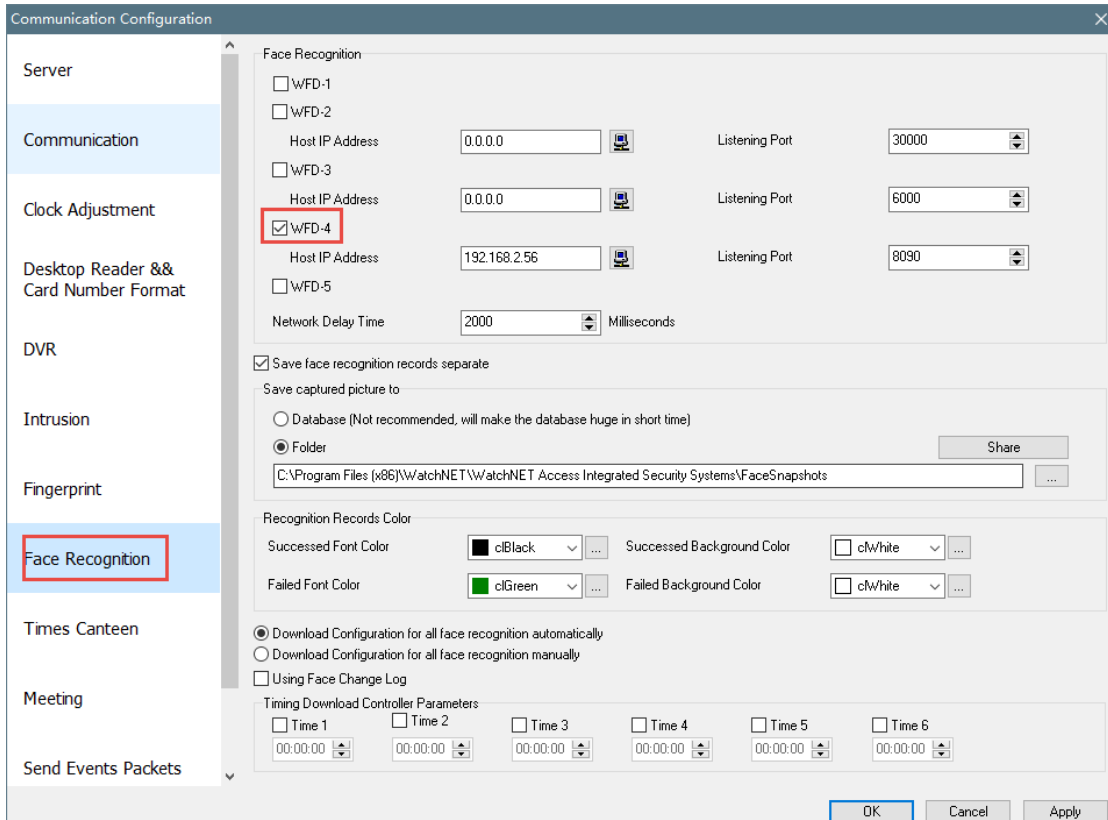
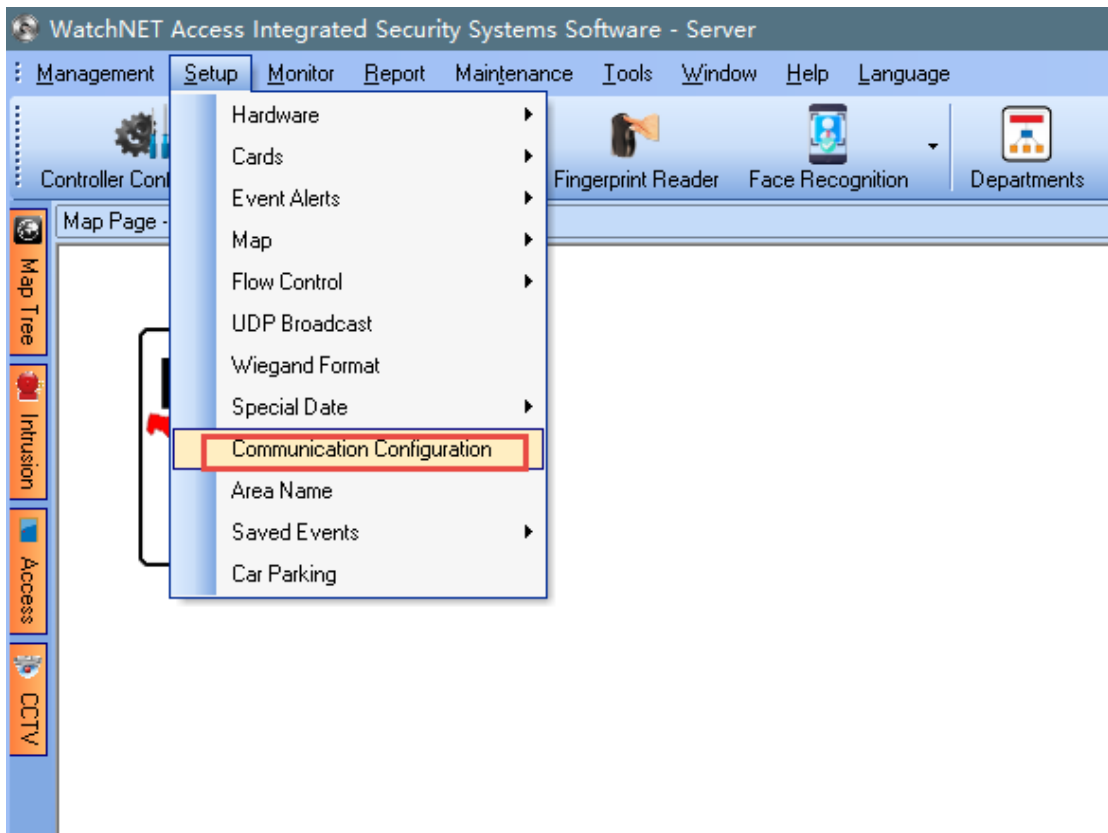
2.3 Configuration

- Check for license in WatchNET access software.



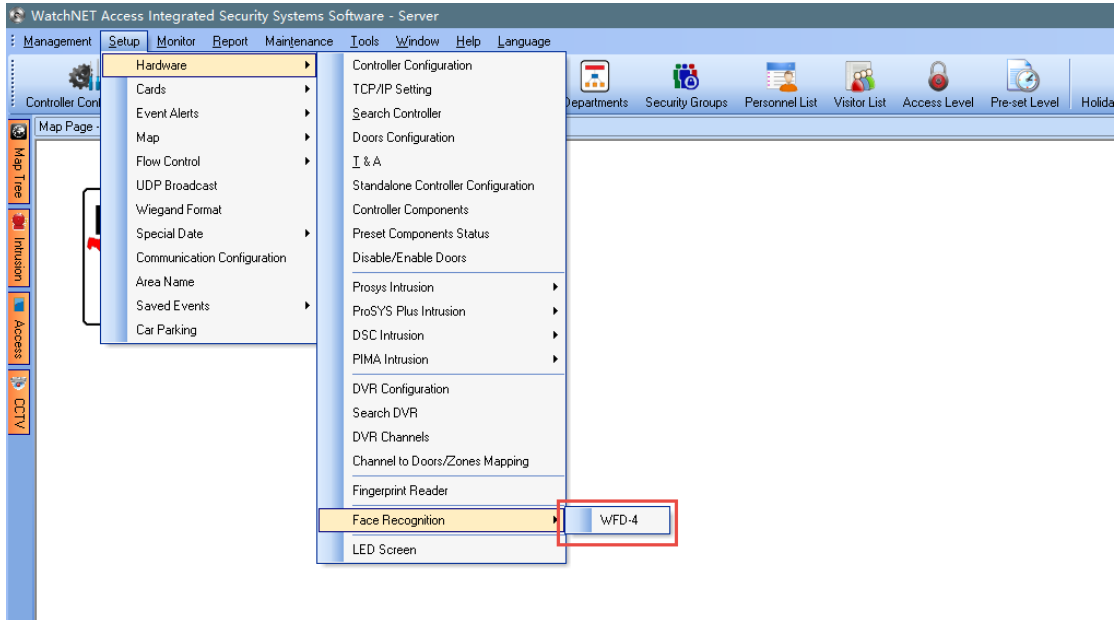
Standard Version	
Server Computer	DESKTOP-TRSHLLH
Database Type	MS Access, MS SQL
Clients PCs	5
Supports Export Module	Yes
Supports Card Printer	Yes
Supports Simple Parking	Yes
Support Personal License Module	No
Time Attendance Clients	5
Guard Tour Clients	5
Canteen Clients	5
Meeting Clients	5
Doors	320
Lift Controllers	200
Fingerprint Readers	200
Face Devices	200
DVR Channels	200
Intrusion Zones	200
Aperio Locks	0
Cards	30500
Serial Number	167900053CB68700

- Communication configuration

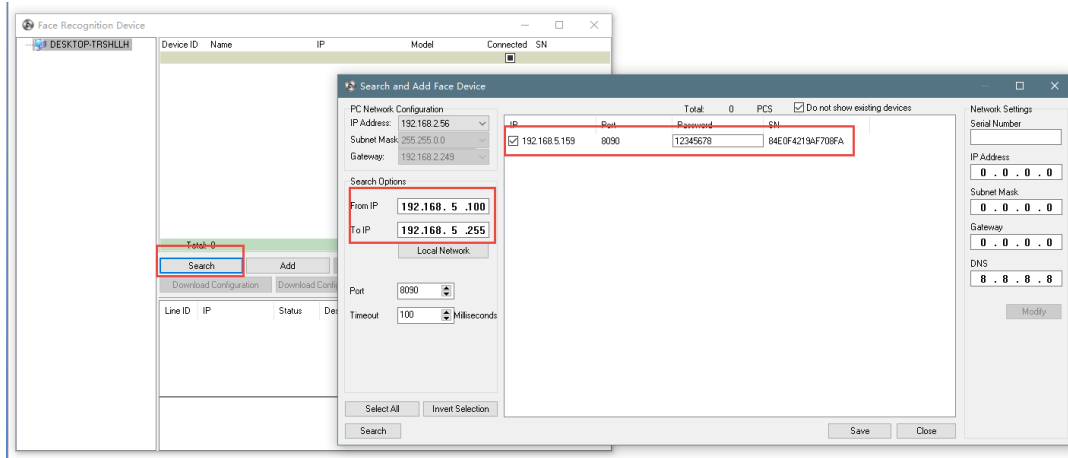


- Add face recognition device

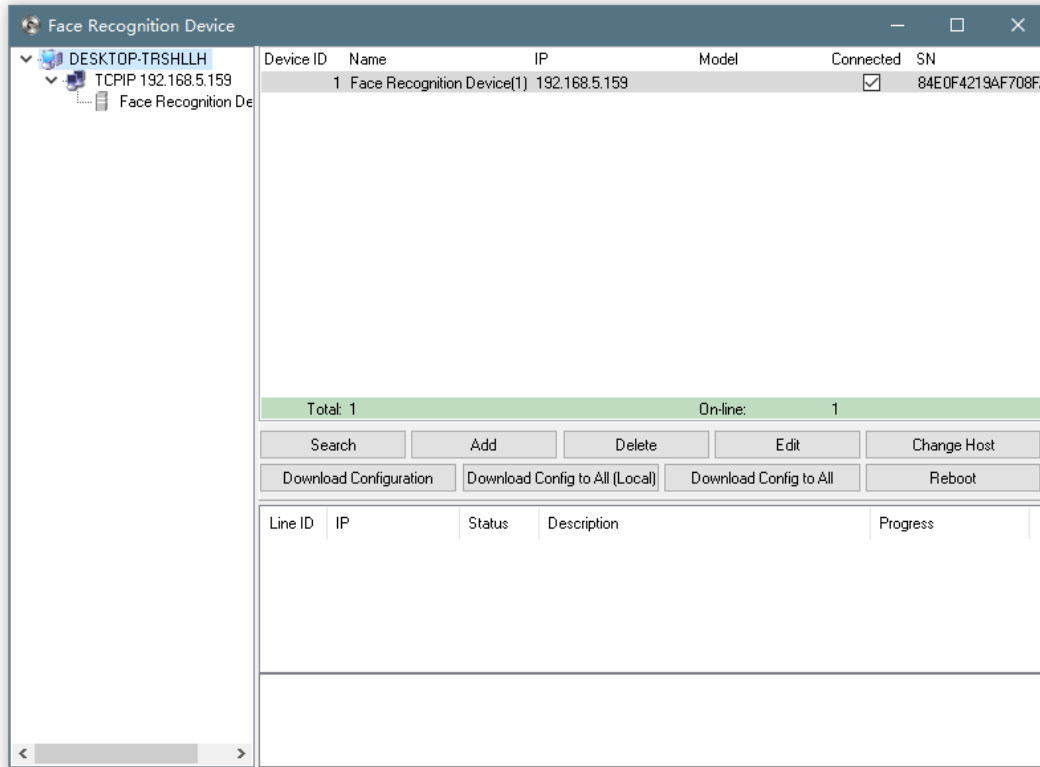
Setup → Hardware → Face Recognition



As shown in the figure below, click search, fill the IP segment that covers the WAF-428DT

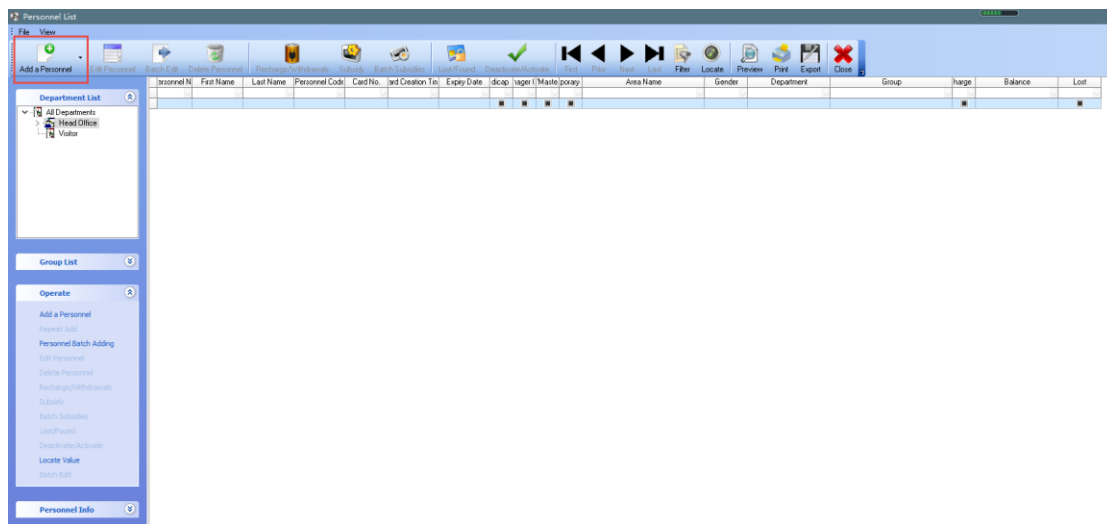


Once device is Online:



- Face Registered

Click **【Add a Personnel】** to pop up the following window and click to add new one.



In **【Basic Information】** , fill in the ID, name, department information.

Personal Information

Basic Information

Card

Access Level

Fingerprint

Face Info

Personal Information Get ID information from 2# ID Card Reader

ID 2 Code

First Name* Last Name

ID Number Gender

Department Visitor

Group Group Name Position

Joining Date

Last Day

Address Floor No.

TEL E-Mail

Birthday Marital Status

Birth Place Nationality

Diploma Major

College Remark

3X4

Card Events QR Code OK Cancel Apply

In **【Card】** , tick the **【Use Access Card】** , obtain the card number through the card issuer or card reader, or manually enter the card number (card number = face recognition terminal card)

Personal Information

Basic Information

Use Access Card

Card

Access Level

Fingerprint

Face Info

Card Info

Card No.: Issue Code

ID Card Custom ID: From Reader

Expiry Date Retrieve Card Number From Desktop Reader Retrieve Card Number From System Reader

Deactivate Days not used Parking available (Park/Watch)

Card Event Link to

Access Properties

Handicap Card Opens the Door for a longer time

Manager Card No Anti-Passback Limitation; Open/Sc

Boss Card Can open any Door anytime

Temp Card

Temp Card Valid Time

From:

Expiration:

Valid for TC3XY Series Only

PIN ID PIN

Valid for DPU1000NT/DPU3000NT Only

Card Group

Twin card matched

Private PIN * # 4-8 digits

Current Area

Current Area:

in **【Access Level】** , Check the security groups

Personal Information

Basic Information

Card

Access Level

Fingerprint

Face Info

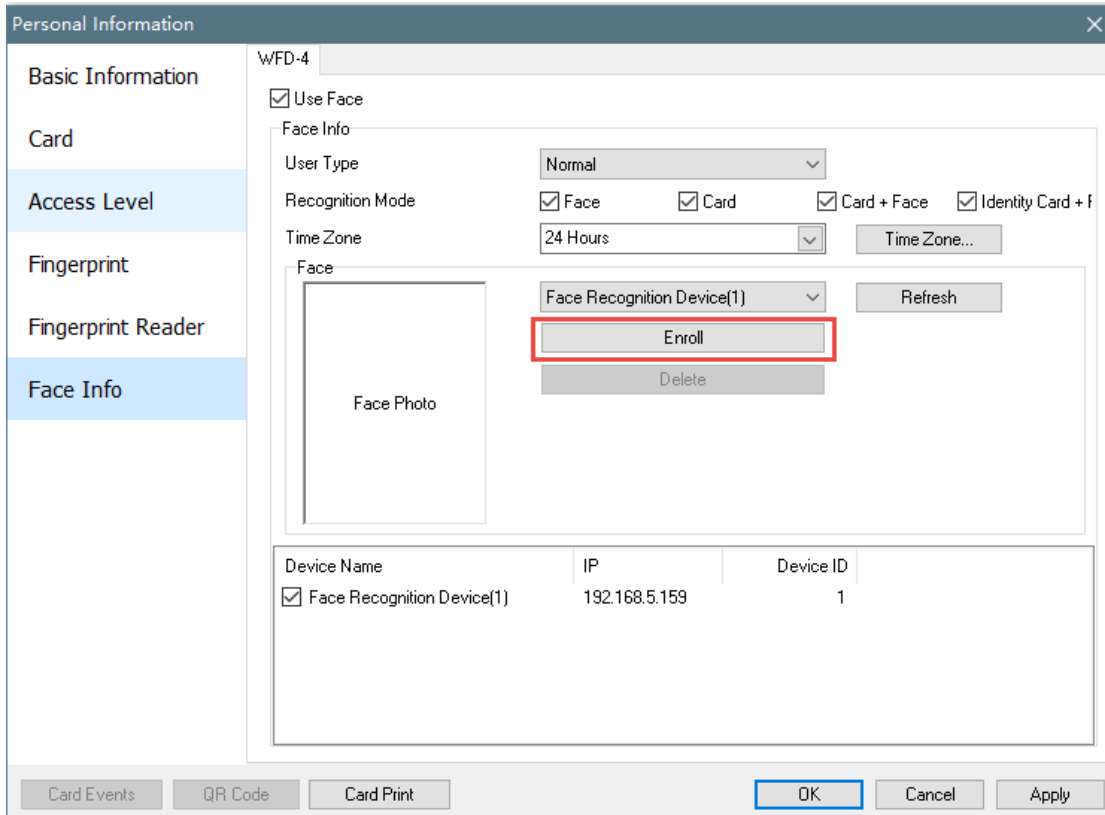
Security Groups

ID	Access Security Group	ID	Access Security Group
<input checked="" type="checkbox"/>	0	<input checked="" type="checkbox"/>	24 Hours

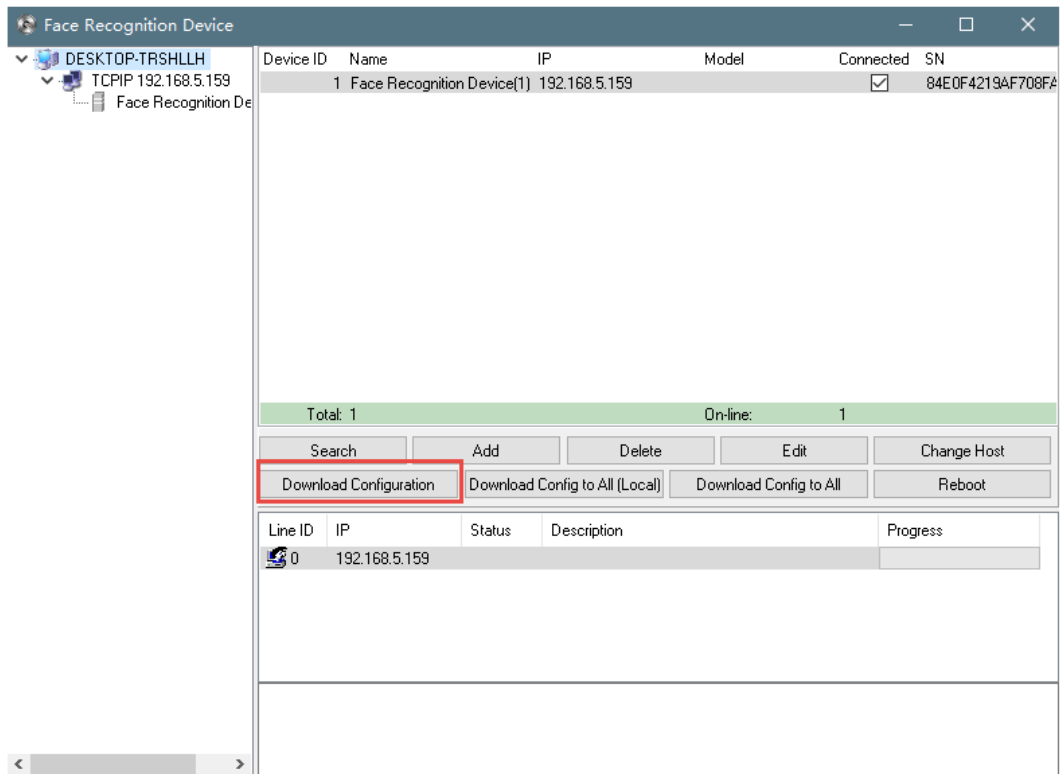
Door Name

Access Time Ta...

In **【Face Info】**, check Use face recognition under NF1000, and check the face recognition device in the **【Device Name】** box.

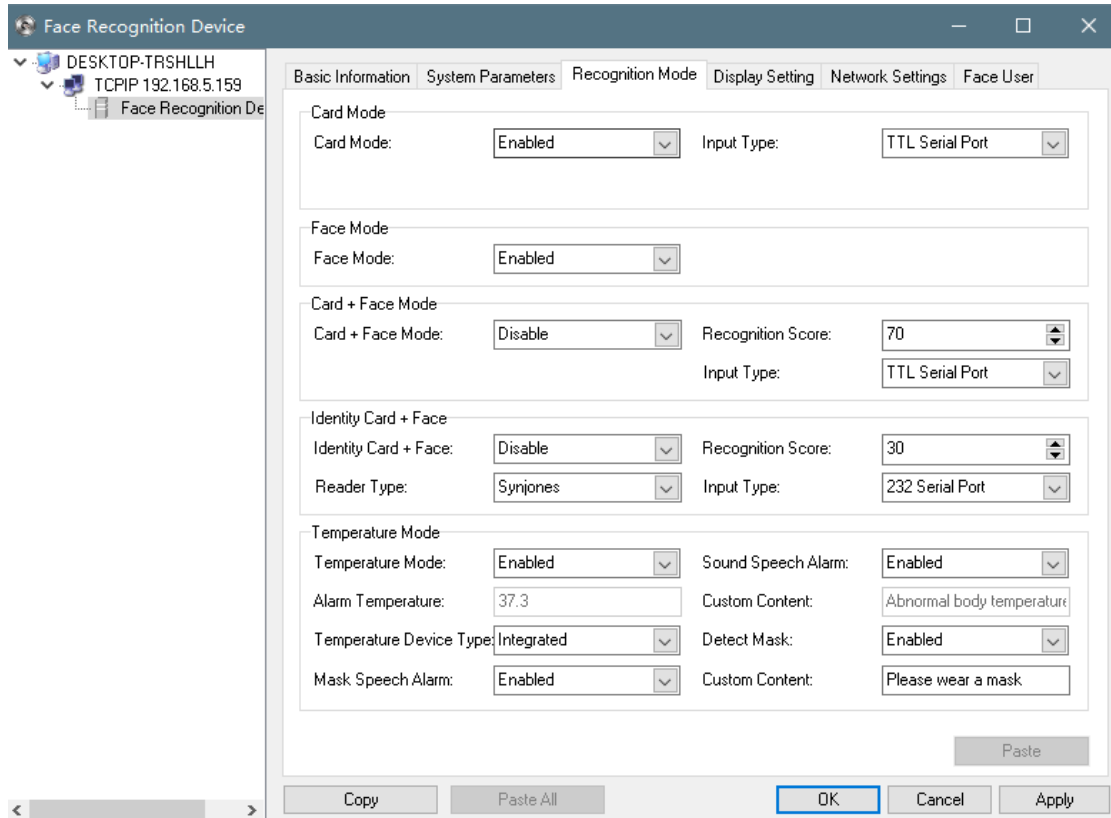


Click download configuration, Face information will be downloaded to device.

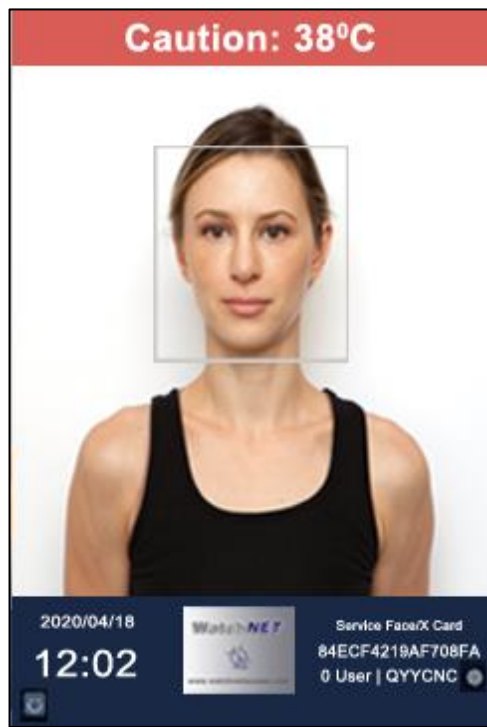


2.4 Temperature mode

Double click the device, and then set the Recognition Mode
Each parameter can be set.

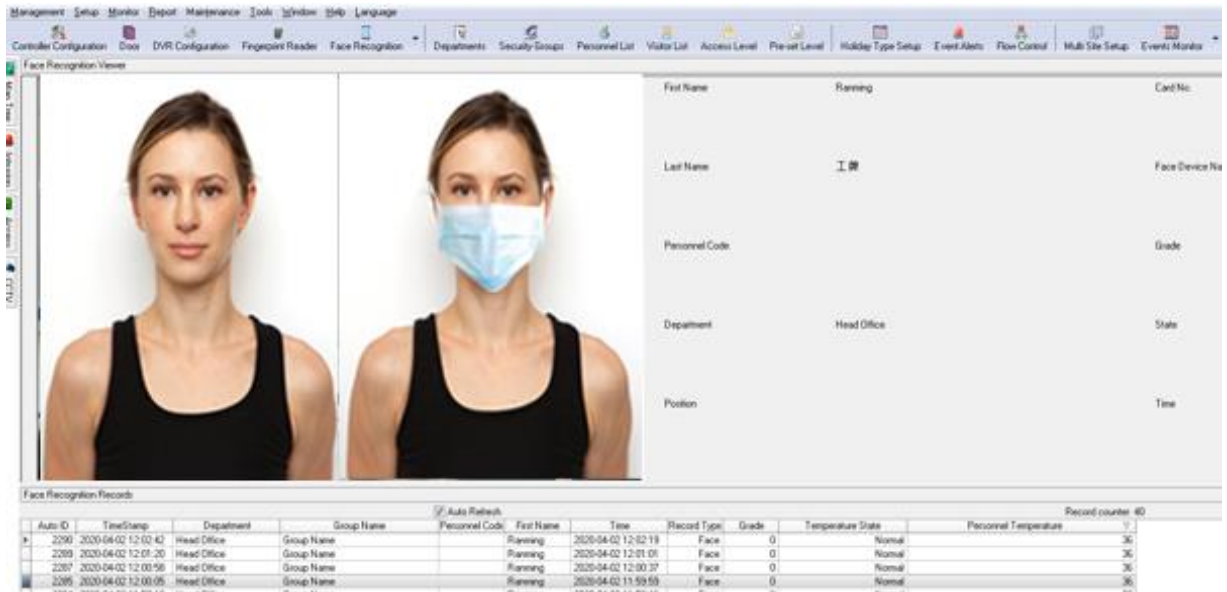


There are hints as follows:



2.5 Record

【Monitor】 - 【Events】 - 【Face Recognition Record】



The screenshot displays the 'Face Recognition Viewer' window. On the left, two side-by-side images of a woman are shown: one without a mask and one wearing a blue surgical mask. To the right, a form displays the following information:

- First Name: Ranning
- Last Name: 工牌
- Department: Head Office
- Position: (blank)

Below the images is a 'Face Recognition Records' table with the following data:

Auto ID	TimeStamp	Department	Group Name	Personal Code	First Name	Time	Record Type	Grade	Temperature State	Personal Temperature
2290	2020-04-02 12:02:42	Head Office	Group Name		Ranning	2020-04-02 12:02:19	Face	0	Normal	36
2289	2020-04-02 12:02:20	Head Office	Group Name		Ranning	2020-04-02 12:02:01	Face	0	Normal	36
2287	2020-04-02 12:02:58	Head Office	Group Name		Ranning	2020-04-02 12:02:37	Face	0	Normal	36
2285	2020-04-02 12:03:08	Head Office	Group Name		Ranning	2020-04-02 12:02:58	Face	0	Normal	36

Visit www.watchnetinc.com

Canada

351 Ferrier Street Unit 5
 Markham, Ontario L3R 5Z2
 Tel: 416-410-6865
 Toll Free: 1-866-843-6865
 info@watchnetinc.com

USA

171 Cooper Ave. Suite 110
 Tonawanda, NY 14150 USA
 Tel: 1-716-877-7277
 Toll Free: 1-866-843-6865
 info@watchnetinc.com

UAE

PO Box No 126312
 Office Suite 703, Oxford Towers
 Business Bay, Dubai, UAE
 Tel: + 971 4 2767117
 info@watchnetinc.com