

FTC-1000

AI Facial Recognition Temperature Scanner (with Mask Detection)



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Thank you for purchasing our products and for the confidence you placed in CDVI.

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The FTC-1000 is covered under a 1 year warranty.

This manual is valid for the FTC-1000 and FTC-1000WM models.

The information contained in this publication is subject to change without notice. Screenshots and images may vary depending on version number. Consult our website or technical support for the most up to date information.

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1] PRODUCT PRESENTATION

The FTC-1000, designed for facial recognition and body temperature detection, ensures hygienic touchfree access and health management. Quick and easy installation makes it suitable for any environment. Management software is included for configuration and set-up of multiple units. **This is not a medical device and should not be used in the diagnosis of any disease or other conditions.*

FTC-1000 terminal

- Stand-alone or Wiegand biometric solution
- 30,000 faces capacity
- Events buffer: 25,000
- Detects body temperature and mask
- Temperature accuracy: +/- 0.5°F (+/- 0.3°C)
- Ideal for health management
- Relay output: C-NO-NC
- Visual and audio feedback
- Power requirements: 12 V DC 2A (provided)
- Camera: 2 mega pixel
- Screen: 7" HD LCD 600*1024
- IP65
- NDAA compliant
- Dimensions: 8.6 x 4.4 x 0.85 in. (218 x 112 x 22 mm)
- Aluminum housing and ultra white tempered glass panel
- Operating temperature: 50°F to 122°F (10°C to 50°C)

Accessories (sold separately)

- C20 Desktop: 1.3 x 7.4 H in. (33 x 189 mm)
- C60 Child Base: 24 in. (60 cm)
- C110 Adult Base: 43 in. (110 cm)

35.6 in. 35.6 in.



2] PACKAGE CONTENTS

This chapter details how to install and setup the FTC-1000.

The box contains:

- (1) FTC-1000
- (1) Power supply with AC power cord plug
- (1) USB key (contains software and documentation)
- (1) Allen key



Power Supply



Allen Key

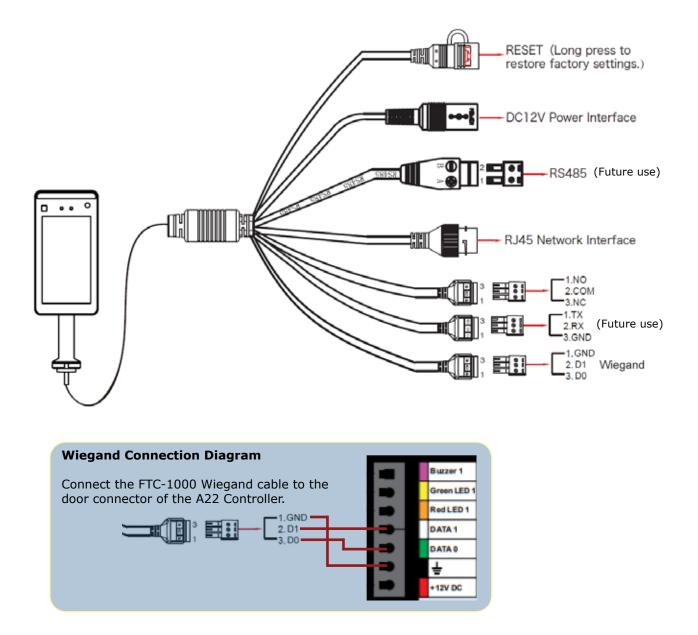






3] Wiring

Install and connect the device (Power, LAN and centralized system).



Connecting the FTC-1000

Setting up the FTC-1000 can be done directly via its web server: http://IP_address:7080 and via the software platform FTC1000 using the webpage http://localhost:8686.

4] Programming Via the Web Server

The first time the FTC-1000 is powered up, its IP address is displayed on the top right corner of the monitor.



Open a browser and log onto:

http://IP_address:7080

Login with the default credentials Username : admin Password : 12345

Note: If there is no DHCP server, the FTC will display a default IP address 192.168.1.88, and if your computer is within the same subnet, then you can connect successfully. See computer's network settings to match the subnet 192.168.1.x.



Select the web browser language from the drop down menu in the top right corner.

Updating Firmware

It is recommended to update the scanner to the latest firmware version. The firmware file can be downloaded from www.cdvi.ca, in the Download Center.

Under the Configuration tab, click on System --> System Configuration --> System Maintenance

	() CDVI	Pictu	Configuration						E Logo
	System	Version Info	Date DST	System Maintenance	Display Configuration	Snapshot			
	System Configuration								
	Scheduled Reboot	Reboot System							
	Security	Rebior	Restore Factory Sutting						
	Volume Brighmess	Update							
	Wiegand	Ferrivae			Brow	ne i	Update		
0	Local Network	Note	The opdate will take about	t 1-10 minutes, piease do not tu	m of the power. The device re	starts automatically a	Ner update		
0	Face Recognition	Manual Online Update	te .						
φ	Temperature	Current Version Norther	CDVI-FTC-1000_P4_	V20.4.36.3	Onin	e Test			
0	Personnel Inquiry	Download Progress							
		Note	The update process takes	1.10 minutes, and will automat	cally restart after update is co	riplete. Please do rol	shul ell power or disce	ornet! the hetwork	
		Auto Online Update							
		Nov The Latest Version							
		Weekly v Viet	t •						
		See							
		5016							

In the Update section, click on Browse, select the previously saved firmware file (.img file) and click Update. Once the update process is complete clear the cache by hitting CTRL+F5 keys.

Security

It is strongly recommended to modify the default password for the Admin account. Additionally, set up the method of password recovery, in the event the password is forgotten or lost.

(CDVI Logout System User Management System Configuration Secure Level Universitie Scheduled Reboot abrie Weak Password Attractato 14 Security Medum Paul Volume Brightness Wegand 6 Local Network Face Recognition Temperature Personnel Inculry Adduser

Click on System --> Security --> Modify

7

Fill in the old password (default is '12345').

Check the **Modify password** box, type in new password and type again to confirm. The new password must be at least 8 characters long and include at least1 letter and 1 number.

Select three security questions from the drop down boxes and type in the answer to each.

Click **Export Key** and save the downloaded file in a safe place.

Click **Ok** to confirm changes

	() CDVI	Picture	Configuration		📑 Logout
	System	User Management			a
	System Configuration Scheduled Reboot	Usemane	20101		
	Security	Туре	Advisional	-	
	Volume Brightness Wiegand	Ord Plassword			
0	Local Network	Password Confirm Password			
•	Face Recognition				
Q	Temperature	C Reset Security Question			
0	Personnel Inquiry	Security Question1 Answer1		×	
		Scouty Question2		¥	
		Arover2			
		Securty Question3 Annwor3		-	
		Exportany	Security question and don't have t	kay file, the equipment must be retarded to the factory	

In the case of a forgotten or lost password, a reset can be done by clicking **Forget** on the login page.

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■ ••••••	
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Logi	ń

There are two ways to reset a password:

1. Answering the three security questions

Authentication mode	Answer the question	~
Security question1		~
Answert		
Security question2		*
Answer2		
Security question3		¥
Answer3		

- Select the questions previously chosen and type in the responses
- Click Next, type in the new password and enter again to confirm
- Click Next to save changes
- 2. Importing the key

dentity	Set new password	1	C
Authentication mode	Import key		*
		Import	
		Import	

- Select Import Key as the Authentication mode
- Click Import, select the previvously saved key file
- Click Next



- Type in the new password and enter again to confirm
- Click Next to save changes

9

Date & Time Settings

To set up the scanner's Date and Time, select the Configuration tab. Click on System --> System Configuration --> Date

	(i) CDVI	Picture	Config	guration							😢 Logout
۰	System	Version info	Date	Dst	Sys	tem maintena	nce	Display co	nfiguration	Snapshot	
	System configuration										
	Scheduled reboot	Time zone		GMT+00:00 Dubl	in, Edinburgh,	lisbon, London,	Monrov	/ia, Cas 🗸			
	Security	Set date/Time manual	ally								
	Volume	Date/Time		2020-07-14	11 -	32	 53 	~			
	Light	 Synchronize with the 	e computer	2020/7/14 11:3	17:48						
0	Local network	Receive Date/Time f	om NTP								
0		NTP server		time.nist.gov				~			
0	Face recognition	Custom									
Φ	Temperature	NTP port		123							
0	Personnel inquiry	NTP interval(Min)		10							
		Save									

Time Zone: Select your time zone from the drop down list. **Set Date/Time Manually**: Select to set the date and time manually. **Synchronize with the computer**: Select to synchronize with the computer's clock.

Click Save to confirm changes.

Temperature Settings

Click on Temperature --> Temperature

	(i) CDVI	Picture Co	onfiguration	<u>ອ</u> ເມ
ø	System	Temperature		
0	Local network	Temperature compensation:	0.0	
0	Face recognition		Compensation range -5.00~5.00	
Q	Temperature	Temperature check		
	Temperature	Alarm temperature	99.14	4
0	Personnel inquiry	Save		

Temperature check: Click to enable the temperature control.

Temperature compensation: In an application with multiple FTCs the compensation can be adjusted to get consistent temperature readings across all devices.

Alarm temperature: Set threshold for abnormal temperature alarm.

Click Save to confirm changes.

To change the temperature scale (°F or °C), click on System --> System Configuration --> Display Configuration

	(i) CDVI	Pict	ire	Configuration				🖻 Logout
•	System	Version Info	Date	DST	System Maintenance	Display Configuration	Snapshot	
	System Configuration							
	Scheduled Reboot	Display Configuration		Show Ip Address	*			
	Security	Language		English	~			
	Volume	Device name		CDVI FTC-1000				
	Brightness	Temperature Scale		Fahrenheit	*			
	Wiegand		_					
0	Local Network	Save						
٥	Face Recognition							
Φ	Temperature							
0	Personnel Inquiry							

Temperature scale: Select Fahrenheit or Celsius for how you would like the temperature to be displayed on the scanner.

Display configuration: Select what is to be displayed in the top right corner of the scanner screen. **Language**: Select language of scanner display and voice. **Device name**: Assign a name to the scanner (ex: CDVI front door).

Click Save to confirm changes.

Face Recognition Settings

Click on Face Recognition --> Face Recognition

	(i) CDVI	Picture	Configuration	
0	System	Face Recognition		
0	Local Network	Visitor Passage	.	
٥	Face Recognition	Mask Detection		
	Face Recognition	Relay Time:	3000	✓ (Milis)
Q	Temperature	Relay States :	Normal	~
-		Real Face:	On	~
0	Personnel Inquiry	Thermal Map:	On	~
		Recognition Distance:	0.8m	~
		Verification Mode:	Face Verification	~
		Temperature Mode:	Fast	~
		Save		

Visitor Passage: Select to enable access of persons not in the FTC personnel database (this will be set up later using the FTC1000 software).

Mask Dectection: Select to enable the mask (PPE) detection feature (enables access only if the use of a mask

(PPE) is detected).

Relay Time: Set the relay activation time (in milliseconds).

Relay States: Normal: active relay for door unlocking.

Reverse: activate relay in case of alarm.

Real Face: Select On.Thermal map: Show or hide thermal result of temperature scan.Recognition Distance: Select the recognition distance, 0.8m is recommended.Temperature Mode: Select Normal or Fast temperature reading.

Click Save to confirm changes.

Wiegand Option

Click on System --> Wiegand

	(i) CDVI		Picture	Configuration	
٥	System	Wiegand			
	System Configuration Scheduled Reboot Security	Direction Wiegand 26	/34	Output 26	~
	Volume Brightness Wiegand Device Configuration		Save		
0	Local Network				
0	Face Recognition				
φ	Temperature				
0	Personnel Inquiry				

Direction: Select Output.

Wiegand 26/34: Select 26-bit or 34-bit depending on your installation (26-bit is an industry standard).

Click Save to confirm changes.

Event Log Settings

Click on System --> System Configuration --> Snapshot

	(i) CDVI	Pictu	ire	Configuration				🖻 Logout
0	System	Version Info	Date	DST	System Maintenance	Display Configuration	Snapshot	
	System Configuration Scheduled Reboot Security Volume Brightness Wiegand	Keep Event Record: Save Picture: Record Time Set Record Keep Time:		2 Not Limited	×			
0	Local Network	Save						
ě	Face Recognition							
0	Personnel Inquiry							

Keep Event Record: Enable to save records of scans events.

Save picture: Enable to save the snapshot of each scan.

Set record stay time: Not limited: stores all events by overwriting the oldest (25,000 events buffer) Set retention time-life cycle of stored data, once set period is reached log events are deleted from the memory.

Email Notifications

Click on Local Network --> Advance setup --> SMTP Configuration

	(i) CDVI	Pict	ure	Configuration			🖻 Logou
ø	System	MQTT Configuration	SMTP Co	onfiguration			
0	Local Network	Enable e-mail alarm	notifications				
	Basic Setup Advance Setup	SMTP Server Custom SMTP Server		Smtp.gmail.com smtp.MailServer.com	~		
0	Face Recognition	Sender's Address		cdvitest@gmail.com			
P	Temperature	Port		465			
0	Personnel Inquiry	Include snapshot as a	an attachmer	ıt			
		Subject		FTC-1000 ALERT			
		Encryption		SSL	~		
		Username	-	covi@test.ca			
		Password					
		Recipient1		recipient@test.ca		Test	
		Recipient2					
		Recipient3					
		Save					

Enable e-mail alarm notifications: Select to recieve email notificaions of abnormal events (ex: high temperature, mask not detected, etc).

Include snapshot as an attachment: Select to have snapshot from scan attached to the email.

Select smtp server, fill out email subject line, the sender account and add up to 3 recipients.

5] Programming Via the Software

Software Installation

System Requirements

Operating system: Windows, 64 bit Browser: latest version of Chrome or Firefox Firewall: firewall might need to be disabled for installation

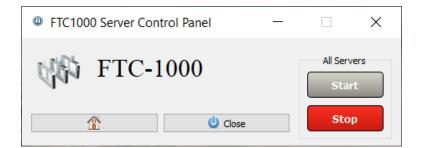
Install the application FTC1000 (Windows only) by running the setup provided on the USB key or by downloading the latest software version from www.cdvi.ca/downloadcenter.

Run the FTC1000A-Setup.exe file. After the installation, the desktop displays the FTC1000 Server Platform icon.



Accessing the Smart Device Platform

To access the login screen, click on the FTC1000 desktop icon. From the control panel, select the house icon.



Login with the default credentials

Username : admin Password : admin

The smart device platform can also be accessed through a browser page by typing in http://localhost:8686/

Adding a Device

After logging in, click on Resource --> Device --> Search Device

() CDVI											Q Holes
📫 Search Mean		Device Name		fatu deviet same	55	: Eater S	N IP Address	Erint IP address			0.5
 Database Resource 	~	Device MAC		Earny MAC address	State	ali -	Version	AB -			
R Device		B AH	B Done C	k South Denser 🕹	Bank Valley Commer						beet -
Personel	÷.		Device Name	Device Type	55	IP Address	Device MAC	Versian	Communication Port	Area	State
🛃 Report	~		Markering	CDVI-PTC-1300	710156/082462	192.165.1.32	20148-51102-00109	CDV5-F2C-1081_F4_V20.4.36.3	443	Reception	other
🛃 System	~									-	-
Torminal Version	~							Total 1 Total Pages 1 1	sch page shewe 17 .	· 1	1 1 1

Select the device, click on the «+» icon to add it.

() CDVI											👰 Hiatsie
 Sections 		55	Bater 5	IP Address	June 1	iddress De	rvice MAC 1	ater MAC alidency			0.0
Ditabane	^	O Add	# Esci								Seleck
Revice			Device Name	Device Type	sx	IP Address	Device MAC	Communication Port	State	State	Setup
Personal	2	Emme	1.55757		Los april 1978 a		11-2-4-0011-1		1000		
🙎 Gaest	~		FRD	CDAT-FTC-1000	7101356568934	192.198.1.40	2067:51-02:54:33	40	Oplan	Not Added	0
🖉 Report	~		CDVI FTC-1000	CD11-F1C-1000	7101303290176	192,168,1.197	2047/51.06/24-07	40	Odisis	Not Added	0 0
🛃 System	1947) 1947)	144	12251	0.000000000	12412221111	110100-00		1.12	-	1222	
Terminal Vers	m 🖂		Meketing	CDAI+FIC-1000	7101569882452	192.168.1.32	20:67:51.02:60:99	443	OfFine	added	
			FTC3000	CDVI-FTC-1000	7100006722860	192,568.1.30	2010/31-01-96-898	444		Not Added	0 0

	Add device	- 8
Number of se	lected devices: 1	
Select the days	ice binding region (default is the first regio	n)
	 The second s	

In the pop up window, select the area and click Set to confirm.

If no area has been created, choose Default Area.

(i) CDVI Hist Derice Name IP Address Eater IP address Time 55 Datala Device MAC 42 ALAC adde All Version & Nath Update Fr Expert Besi B 444 W Dele Q. Rearth Dalvie ES Pe Device Type IP Address Device MAC Gant CDVI-FTC-1000 7101903290176 192.108.1.197 20:0F-91:06.2A.C7 CDVI-FTC-1000_74_V20.4.38.1 40 Marketing Desk 0 8 0 CDVI-FTC-1000 7101369882462 1923683.32 20:69:51:02:80:09 CDVT-FTC-1000 P4 V25-4363 10 Office Reception 331 12 Total 2 Total Pages 1 Each page shows 11 .

Once the device is successfully added, it will appear in the device list with a green «online» indicator.

Note: Once the FTC-1000 is added to the account, it becomes linked to it. If the software is installed on another PC you will not be able to add this same FTC to the second computer.

To unlink an FTC, it must be deleted from the account or reset to factory default settings.

Importing Photos into the Facial Recognition Database

To import photos, click on Personnel --> Personnel --> Input personnel images in batches (for batch upload) or +Add (for single image upload)

enset Device Platform					Q .	the
18. Seach Ment		No. Search matcher Name	Sorthama	Mahlie Phone No. Search rachile pt Certificate No. Search sarriftens	à	5
Resource		State All -	Creation Date			
🕅 Peromod	1	C3 A8		AM Automation for the ground in terms of the personal in terms in term	port	
A Department		📋 No Group			1202	
1 Personal				Image No. Name Gender Mobile Phone No. Department Certificate Type Certificate No. State Cr	ration Da	,te
A Valor	~			No matching records found?		
😴 Report	~					
System	~					
Torminal Version	~					

Note: Images used for facial recognition must meet the following requirements:

- 1. The images must be in .jpg format and the file name must be the person's name (ex: janesmith.jpg)
- 2. The photo of the face must be of good quality, the face must be recognizable
- 3. The file size must not exceed 80 MB

Perture noving formats can be divi 1. Name.jpg 2. Name.Department Name.jpg 3. Name_Department Name Pert (tip:Department name must exist a must be unique)		
ZIP Please uss say to upload assortions 100 pictures.	The fair aim errort race of Han	
Liploid Zip	Upload file	
Canoel	Confirm	

Click Upload file or Upload Zip (if importing more than 500 pictures)

Click Confirm to import the images.

*Note: the the name of the picture becomes the name of the person in the database.

To import personnel information, click on Input personnel in batches.

Download the excel template by clicking on \ll batch add people template.xls \gg Fill in the file just downloaded with the required information and save it according to the following specifications.

- the file format must be .xls or .xlsx
- do not upload the same file several times
- the size of the file must not be greater than 2 MB

Click on "Import" to upload the newly compiled file with the personnel information.

Staff information import	- 🛛 ×
Click to download batch add people templates.xls	
This operation can improve or cover the information of the existing pers system	onnel number of the
Note:	
1.Please fill in strictly according to the template	
2. The uploaded file must be excel file(.xls,xlsx)	
3.Do not upload the same file repeatedly	
4.The uploaded file shall not exceed 2M	
	_
	Import

Wiegand - Adding a Card Number to a Personnel

While creating/editing a personnel, enter the familiy number and the card number. In the ATRIUM interface, this card number must also be created and assigned to this user.

Note: The familly number is a 3 digit number and can be anywhere from 001 to 255. The card number must be between 00001 and 65535.

	Personnel No.:		
	*Name:	JohnDoe	
	Gender:	Please select	~
	Department:	Please select	~
	Certificate Type:	Please select	~
Face Library Upload	Certificate No.:		
	Mobile Phone No.:	I	
	Family:	33	
	Card Number:	1898	
	Card Number(Hex):	21076a	

6] Troubleshooting Tips



To ensure accurate temperature readings, please follow these steps:

Device:

The device has been on for at least 5 minutes before use.
The device should not be placed in front of a window or door (the change in light/temp can affect readings).

User:

- The detection distance is between 1.5 to 4 ft., 2.5 ft. is best.
- The user must face the device directly.
- Remove any obstructions to the face (such as hats) or to the sensor.

Facial Recognition:

Picture upload:

- Personnel pictures must be in JPG format.
- Pictures should be clear, with neutral background.
- Pictures should be named in one of the following ways:
 - 1) Name.jpg
 - 2) Name_DepartmentName.jpg
 - 3) Name_DepartmentName_Personnel No.jpg

User:

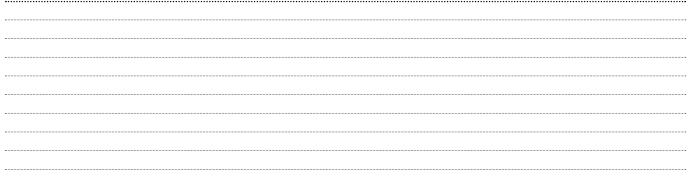
- The detection distance is between 1.5 to 4 ft., 2.5 ft. is best.

Communication from scanner to software

If there is a communication issue between the scanner and the software:

- Confirm date/time of the FTC device is correct. Check the time zone via the web server.
- If scanner shows online is software but does not seem to be communicating, check the PC and FTC are on the same subnet.

NOTES:







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All the information contained within this document (pictures, drawing, features, specifications and dimensions) could be perceptibly different and can be changed without prior notice. Reference manual: CDVI_FTC1000_IM_01_EN_LETTER_CMYK.pdf - Printed in Canada - June 2020