

Fingerprint USB Dongle C10 User Manual



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C*Core

1 Foreword

Thank you for using the Fingerprint USB Dongle C10 product developed by C*Core Technology Co., Ltd. Please read the user manual carefully before using this product.

The content of this document is subject to change from product to product. Please ask the supplier for the latest version.

2 Product Introduction

The Fingerprint USB Dongle is composed of dedicated security chip, fingerprint sensor, etc., and realizes two functions of Windows Hello and File Encryption and Decryption.

The Windows Hello function is a biometric authorization method. You can log in to access your Windows system by touching your fingerprint. Adding a fingerprint login method to the traditional password login is more convenient and more secure.

The File Encryption and Decryption function can perform one-click encryption and decryption on files or folders. The two-factor authentication mechanism of "hardware + fingerprint / password" is used for decryption; the encryption key pair is generated in the Fingerprint USB Dongle and bound with the mnemonic, even if the hardware is damaged or lost, you can also retrieve your own key pair and decrypt previous files through mnemonics.

3 Install the Driver

Dongle driver needs to be installed to use the Fingerprint USB Dongle, Supporting software download address:

http://www.china-core.com/products_show.php?id=6&xxlm=9&xlm=2&lm=1, or log in to the website of C*Core Technology Co., Ltd (http://www.china-core.com/),"Products and Services"——"Biosecurity Products"——"USB Fingerprint Register"——"C10".



Note: If you use Windows 7 system, Windows 7 system without update Microsoft patch needs to manually install the patch package "sha-256-win7-kb", 32-bit system corresponds to "Windows6.1-KB3033929-x86.msu",64-bit system corresponds to "Windows6.1-KB303 3929-x64.msu ".

Open the Fingerprint USB Dongle driver.exe and follow the prompts to complete the installation process:

4 Windows Hello

When registering the fingerprint with Windows Hello function, different operating systems support different registration methods. Some systems use the fingerprint registration tool (Windows 7/8) developed by the C*Core Technology Co., Ltd, and Windows 8.1/10 system uses the fingerprint registration program that comes with Windows.

Note: Due to Microsoft system restrictions, the user name using the Windows Hello function cannot be administrator. Please create an administrator account with a different name (you cannot directly rename administrator).

4.1 Windows 10

4.1.1 Fingerprint Registration

Settings—Accounts—Sign-in Options—Windows Hello—Set up, run the fingerprint registration program that comes with the operating system:



	Windows Hello setup	×	
	Welcome to Windows Hello Your device just got more personal. Say goodbye to entering complex passwords and start using your fingerprint to unloc your device, verify your identity, and buy things in the Store.	g :k	
	Learn more		
			9
	Get started Cancel		
Click "Get sta	rted";		
Ň	Windows Security	×	
1	Making sure it's you		
	PIN I forgot my PIN		
	Cancel		

Enter the PIN code (the first setting without PIN code), touch the fingerprint to enter the registration process, and follow the prompts to place your finger on the induction zone to enroll the fingerprint.





Tip: Use different positions of your finger's fingerprint to touch the sensor's sensing area, which will help improve the fingerprint matching experience.



Complete registration.



4.1.2 Windows Login

After you lock the screen, restart, or power on, touch your fingerprint to log in.

4.1.3 Fingerprint Deletion

Settings—Accounts—Sign-in Options—Windows Hello, find the "Remove" button, click the "Remove" button, the fingerprint is cleared.



ப் Home	Sign-in options			
Find a setting	Manage how you sign in to your device			
Accounts	Select a sign-in option to add, change, or remove it. Windows Hello Face This option is currently unavailable—click to learn more			
R= Your info	Windows Halls Financesist			
🖾 Email & accounts	Sign in with your fingerprint scanner (Recommended)			
🔍 Sign-in options	You're all set up to sign in to Windows, apps, and services with your fingerprint.			
년 Access work or school	Learn more			
A, Family & other users				
\mathfrak{C} Sync your settings	Windows Hello PIN Sign in with a PIN (Recommended)			
	Security Key Sign in with a physical security key			
	Password Sign in with your account's password			
	Picture Password Swipe and tap your favorite photo to unlock your device			

4.2 Windows 8.1

4.2.1 Fingerprint Registration

Find "Settings—–	-Accounts-	——Sign-in Options——Fingerprint" ,and click "Add";
Accounts Your account Sign-in options Other accounts	٦	Password A strong password helps keep your account more secure Change Picture password Sign in to your PC using a favorite photo Add
	Add a fin First, verify your Password	gerprint to this account account info. pre
		Password policy Password required when waking this PC from sleep Change



Tip: Use different positions of your finger's fingerprint to touch the sensor's sensing area, which will help improve the fingerprint matching experience.

Enter the computer login password, enter the fingerprint registration process, and follow the prompts to complete the registration.

Accounts Your account Sign-in options Other accounts	P Password A strong password helps keep your account more secure Change Picture password Sign in to your PC using a favorite photo Add	
	Add a fingerprint to this account You're done! Choose Finish to save this fingerprint to your account.	
	Finish Cancel Password policy Password required when waking this PC from sleep Change Change	

4.2.2 Windows Login

After you lock the screen, restart, or power on, touch your fingerprint to log in.

4.2.3 Fingerprint Deletion

Settings—Accounts—Sign-in options—Fingerprint, click the "Delete" button.

4.3 Windows 7 / Windows 8

4.3.1 Fingerprint Registration

Control Panel——Hardware and Sound——Biometric Equipment——Manage fingerprint data, you can run the "Windows fingerprint Enroll" tool;





Click "Enroll FP" and touch the fingerprint to enter the registration process;



Tip: Use different positions of your finger's fingerprint to touch the sensor's sensing area, which will help improve the fingerprint matching experience.



Follow the prompts (the indicator lights up and puts on, the light goes off and your fingers leave) to complete the fingerprint registration.



Note: For users who log in using the local area network, if their fingerprints fail to log in, they can open the control panel \rightarrow biometric device \rightarrow change biometric settings, as shown in the figure below (tick Allow users to log in to the domain using their fingerprints).

 Biometrics on 	
Allow users to log on to Windows using their fingerprint	'S
Allow users to log on to Domain using their fingerprint	3
Biometrics off	
Turning off any of these settings will delete saved fingerpr Turning off biometrics also deletes fingerprint records for	int logon information. all users.



The first time you log in with your fingerprint, you need to configure permissions (give your fingerprint the password to log in to the system). After you lock the screen, restart, or power on, in the password input interface, click "Other credentials", and click the fingerprint icon:

4.3.2 Windows Login



Touch fingerprint:



Enter the password, click the right-pointing arrow \rightarrow complete the configuration;



CCOTE Fingerprint unlock Enter your current password to enable fingerprint unlock. Current password	
Other Credentials	

You can log in next time you touch your fingerprint.

4.3.3 Fingerprint Deletion

Use Windows (Control Panel——Hardware and Sound——Biometric Device—— Delete Fingerprint Data) to bring up the fingerprint registration tool, clear the fingerprint registered under the current system, and click "Delete Fingerprint";



Prompt to place your finger on the sensor after confirmation;





Touch any fingerprint to delete it.





5 File Encryption and Decryption

5.1 Crypto Tool Installation

Open **Fingerprint USB Dongle C10 CryptoTool.exe**, support both Chinese and English versions,Click ok;

Versions, Click ok;

Select Setu	p Language	\times	
17	Select the language to use during the installation:		\mathcal{A}
	English	\sim	\mathbf{O}^{*}
	OK Cancel		

Read the license agreement carefully and click "I accept" to proceed with the installation:

A		
Please read the following important information before continuing.	C*Core Technology (r e Go.,Ltd
Please read the following License Agreement. You must accept the agreement before continuing with the installation.	terms of this	
Disclaimer		
Important reminder: Be sure to backup the mnemonics to external s USB, flash memory or hard disk, and keep them in a safe place to pr	storage, such as event leakage.	
Regenerating a new key pair will result in the loss of the original key encrypted file will never be decrypted. Using the mnemonic will rest pair, and the original encrypted file can be decrypted normally. Users all legal responsibilities for mnemonic management.	pair, and the ore the original key are responsible for	
 I accept the agreement 		
○ I do not accept the agreement		
	 Please read the following important information before continuing. Please read the following License Agreement. You must accept the agreement before continuing with the installation. Disclaimer Important reminder: Be sure to backup the mnemonics to external s USB, flash memory or hard disk, and keep them in a safe place to pr Regenerating a new key pair will result in the loss of the original key encrypted file will never be decrypted. Using the mnemonic will rest pair, and the original encrypted file can be decrypted normally. Users all legal responsibilities for mnemonic management. I accept the agreement I do not accept the agreement 	Please read the following important information berore continuing. C*Core Technology (Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation. Disclaimer Important reminder: Be sure to backup the mnemonics to external storage, such as USB, flash memory or hard disk, and keep them in a safe place to prevent leakage. Regenerating a new key pair will result in the loss of the original key pair, and the encrypted file will never be decrypted. Using the mnemonic will restore the original key pair, and the original encrypted file can be decrypted normally. Users are responsible for all legal responsibilities for mnemonic management. I accept the agreement I do not accept the agreement

Follow the prompts for the next installation;



🔀 Setup - USB Fingerprint Register Encryption and Decryption Tool	_		×
Select Additional Tasks Which additional tasks should be performed?	C	CO	PTC
Select the additional tasks you would like Setup to perform while inst Fingerprint Register Encryption and Decryption Tool, then click Next.	alling US	B	<u>, , , , , , , , , , , , , , , , , , , </u>
Build Management Tool Shortcuts			
English			
< Back Nex	t >	Canc	el

Finish installation.



5.2 Crypto Tool Initialization

Open the file encryption and decryption management tool (if the desktop shortcut did not found, you can click the Windows icon in the lower left corner, which is displayed under the "Recently Added" list);

The first time you use the file encryption and decryption management tool, you need to reset the PIN. The password can only consist of letters and numbers, and the length is



6-16 digits. The old password is 111111 by default.

File Encrypt & Decrypt Management V1.1						×
System Fingerprint Author	rization	Add Fingerprint	Password Management	Key Management		
Please reset the length is 6-16 d	e passwo ligits.	ord for the first u	ise, which only be le	tters and numbe	ers, and the	
Old Pwd:	*****					
New Pwd:						
Confirm Pwd:						
				Chang	e	

2. After modifying the PIN code, you need to generate your own unique key pair (you only need to generate it once), save it inside the chip, and bind it with the mnemonic word.

File Encrypt & Decrypt Managemen	- ×
System Fingerprint Authorization Add Fingerprint Password M	anagement Key Management
Generate Key Pair	Recover Key Pair
When using the fingerprint registrar encryption key pair is generated afte mnemonic is recorded! When not used f the key encryption pair after connect	for the first time, an r connection and the or the first time, recover ion!

Click "Generate Key Pair" to pop up the authentication dialog;



ystem Fingerprint Authoriz	Authentication	× ment
Generate Key P:	Please enter your password:	Key Pair
When using the f encryption key p		time, an .nd the
mnemonic is reco the key encrypti	Verify	ime, recover

Enter your modified password, and the encryption key pair is generated successfully.

File Encrypt & Decrypt Management	- ×
System Fingerprint Authorization Add Fingerprint Password Mana	agement Key Management
Generate Key Pair	Recover Key Pair
Please remember the following mnemonics means, in case you lose the device or o the encryption key pair,Use these mnemo been copied to the pasteboard and can b victory champion wolf fever image unive custom remain tonight cushion icon piec	s with a pen or other otherwise want to recover onics. The mnemonic has be pasted directly: erse breeze claw end ce

The mnemonic is copied by default. You can right-click and paste it in the document; you can restore your own key pair through the mnemonic, and the mnemonic is copied by default when generating the key pair, please paste it into the text and save it to a safe place, please make sure to keep it in a safe place. The responsibility for keeping it is the responsibility of the user.



Generate a key pair and record the mnemonic, indicating that the installation is complete and the file encryption and decryption management tool is ready for use.

5.3 Encryption and Decryption Demo

The Crypto Tool used to encrypt and decrypt files. The process is as follows:

 Right-click the file to be encrypted (hereinafter referred to as "original file"), and a dialog box will pop up;

ori	iginal file.doc		-		
	Open (O)				
1.3	Print				
	Edit				
	📔 Edit with Notepad++				
	C*Core Decrypt & Encrypt	×	() Encrypt		
				NG	

 Click "Encrypt", a dialog box pops up (the user can choose whether to delete the source file), and generate a cipher text ending with ".ec";



✓ Right-click the cipher text "original file.doc.ec", enter the password or touch the fingerprint, the decrypted file is "original file (1) .doc": if you choose to delete the source file after encryption, the decrypted file is "original File.doc ";



original file(1).doc DOC Document 1.33 MB	\sim	original file.doc DOC Document 1.33 MB
---	--------	--

 \checkmark Multiple files can be selected separately for batch operation;

original file A.doc DOC Document	original file B DOC Docum	.doc ent	Diriginal file C.doc DOC Document
1.55 MD		Print Edit	
		C*Core Decrypt & Encrypt	Encrypt
		🖻 Share	Encrypt separately

Right-click on the cipher text and perform the "decrypt to" operation on the "original file.doc.ec";

original file.doc DOC Document	original file.doo	c.ec file		
1.33 IVIB	1.33 IVIB	Open		
		Edit with Notepad	++	
		C*Core Decrypt 8	ል Encrypt 🔹 🕨	😩 Decrypt
		戌 Share Open with		Decrypt to 🖕

A dialog box pops up, and the user can choose the decryption path of the file.

 \sim

Sec.	rypt the file t	o the specified path — C*Core	×
Target path:	E:\ccore		
			Decrypt



5.4 Crypto Tool Instructions

5.4.1 Key Management

1. The key pair only needs to be generated and saved once, and does not need to be re-generated. Click "Generate key pair" again, and a dialog box will pop up to remind you;

File Encrypt & Decrypt Management V1.1	- ×
System Fingerprint Authorization Add Fingerprint Password Management Key Management Generate I Please rememb means, in cas the encryptio been copied t victory champ custom remain System Fingerprint Authorization A key pair already exists in the fingerprint registrar. Regenerating the key pair will cause the decryption of the originally encrypted file to fail. Are you sure you want to continue? Confirm Cancel	Pair other to recover onic has tly: w end

2. It can use to recover the key pair: if the Fingerprint USB Dongle is lost or damaged accidentally, you only need to import the mnemonic words to recover the key pair and extract the cipher text encrypted by the original Fingerprint USB Dongle.

1) Decrypted via the new Fingerprint USB Dongle

Insert the new Fingerprint USB Dongle, open the management tool, and paste the saved mnemonic word into the dialog box;



File Encrypt &	Decrypt Ma	anagement V1.1		- ×
ystem Fingerprint Authorization	Add Fingerprint	Password Management	Key Management	
Generate Key Pair			Recover Key P	air
lend rich admit exha regret member curiou	ust lyrics s abstract	copper age to idea page ete	ube awkward ernal toddle	tray er

Click "Restore Encryption Key Pair", and prompt "Are you sure you want to overwrite?"



After verifying the PIN code, it indicates that the recovery is successful. You can use the new USB fingerprint register to decrypt the original cipher text.



File Encrypt	& Decrypt Management V1.1	- ×
System Fingerprint Authorization	Add Fingerprint Password Management Key Mana Info	X
Generate K	Key pair recovered successfully	Pair 1 tray
regret member		ler
	Confir	m

2) Decrypt by mnemonic only

There is no need to insert a new Fingerprint USB Dongle, right-click the cipher text and select "Decrypt", paste the previously saved mnemonic words into the popped box, and click OK to retrieve the encrypted cipher text of the original fingerprint registrar.

(Senter mnemonic decryption - C*Core	×
	lend rich admit exhaust lyrics copper age tube awkward tray regret member curious abstract idea page eternal toddler	
	Cancel	



5.4.2 Add Fingerprint

Users can add or delete fingerprints that support "encryption and decryption", enter the fingerprint name, and verify the PIN code;

File Encrypt & Decrypt Management V1.1	- ×
System Fingerprint Authorization Add Fingerprint Password Management Key Managem	ent
FP registration stem	n Login Delete 🕂
Pls enter a fingerprint name	
Confirm Cancel	

Press your finger (10 times) as prompted to complete registration quickly;

	Authorization	Add Fingerprint	Password Management	Key Management	
ase press your istrations (6	finger again. C / 10)	urrent registrati	ons / total		
ngerprint ID	Fingerprint Name	e Support Encryp	tion and Decryption	Support System Login	Delete



Registration success.

File Encrypt & Decrypt Management V1.1						
: Authorization	Add Fingerprint	Password Management	Key Management			
Fingerprint Name	Support Encryp	tion and Decryption	Support System Logi	.n Delete	+	
111	V Bound		Unbound			
	Encrypt & : Authorization Fingerprint Name 111	Encrypt & Decrypt Ma Add Fingerprint Fingerprint Name Support Encryp 111 I Bound	Encrypt & Decrypt Management V1. Authorization Add Fingerprint Password Management Fingerprint Name Support Encryption and Decryption 111 Note: Bound	Encrypt & Decrypt Management V1. 1 : Authorization Add Fingerprint Password Management Key Management Fingerprint Name Support Encryption and Decryption Support System Logi 111 Note: Decryption and Decryption Support System Logi 111 Note: Decrypt System Logi	Encrypt & Decrypt Management V1.1 : Authorization Add Fingerprint Password Management Key Management Fingerprint Name Support Encryption and Decryption Support System Login Delete 111 Bound III	

5.4.3 Windows System Fingerprint Authorization

The fingerprint registered through the Windows System fingerprint registration tool will be displayed on the system fingerprint authorization interface of the management tool;

File Encry	vpt & Decrypt Management V1.1	- ×
System Fingerprint Authori	Authentication	× nent
Fingerprint ID Fingerpr 1 I	Please enter your password:	am Login
	Verify	

Users can add or cancel the "Support encryption and decryption" function according to their needs. The "Support System Login Function" permission can't be cancelled by Microsoft control.



File Encrypt & Decrypt Ma	anagement V1.1
System Fingerprint Auther Info Fingerprint ID Finge 1 The tool of permission login!	does not have n to set the system
	Confirm

6 FAQS

1. Due to Microsoft system restrictions, the user name using the Windows Hello function cannot be administrator. Please create an administrator account with a different name (you can't directly rename administrator).

2. When registering the fingerprint with Windows Hello function, different operating systems support different registration methods. Some systems use the fingerprint registration tool (Windows7/8) developed by the C*Core Technology Co., Ltd, and Windows8.1/10 system uses the fingerprint registration program that comes with Windows.

3. Driver software installation: Scan the product packaging QR code to obtain the download address:

http://www.china-core.com/products_show.php?id=6&xxIm=9&xIm=2&Im=1, or log in to the website of C*Core Technology Co., Ltd (http://www.china-core.com/),"Products and



Services"——"Biosecurity Products"——"USB Fingerprint Register"——"C10".

4. Some ghost versions of the operating system may simplify system components, which does not support the fingerprint login function. Please use the official version of the operating system; if the Windows system has function updates, please go to the company's official website for the latest software support.

5. Some Windows7 computers running on a standalone network need to install the SHA256 patch package. The corresponding patch package can be downloaded and installed through Windows update, or downloaded and installed through the link below:

Win7 X86: https://www.microsoft.com/zh-CN/download/details.aspx?id=46078

Win7 X64: https://www.microsoft.com/en-us/download/details.aspx?id=46148.

6. If you accidentally lose the USB fingerprint registrar, if you insert a new USB fingerprint registrar, you need to delete the system fingerprint data first, and then recover the key pair through the mnemonic, you can decrypt the cipher text encrypted by the original fingerprint registrar.

7. For Windows 8.1/ Windows 10 system, you need to set the computer PIN before registering the fingerprint for system login.

8. When encrypting files, some computer security software may pop up security false positives and allow the program to run.



7 Contact US

If you have any questions or needs, please contact us:

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