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# Introduction

Liquid Crystal Display (LCD) is an intelligent O&M component installed on a server. For hardware information about usage of the LCD, see the user guide for the LCD touchable intelligent management module. The firmware of LCD contains the following parts:

- **LCD Configure**—Project file (.hs file) to control the display material of the LCD module. Users can configure the display material to control the interface display on the LCD module.
- **LCD firmware**—Firmware (.bin file) used to control communication between the LCD controller and the BMC.

This document is used to guide users to upgrade LCD configuration and firmware offline through HMIStudio. It mainly includes the following parts: environment preparation, basic upgrade process for LCD Configure, and basic upgrade process for LCD firmware.

# Prepare for LCD firmware upgrade

This section uses the Windows 7 (64-bit enterprise edition) operating system as an example to illustrate the procedures for installing HMIStudio and the USB driver.

#### NOTE:

Figures in this section are for illustration only.

## Prepare tools

- PC or laptop (recommended)
- Micro USB cable
- HMIStudio installation package

## Install HMIStudio

- 1. Download the HMIStudio installation package. As a best practice, use an official genuine version.
- 2. Double-click the HMIStudio installer. On the Setup screen, select "I accept the agreement" and then click Next.

#### Figure 1 Setup screen

Setup - HMIStudio —	×
License Agreement Please read the following important information before continuing.	ð
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
HMI Configuration software readme file	^
Release version number:1.5	
Release date: 2016.12.05 Note: This readme file contains introduction, HMI configuration software installation information.	
About HMI Configuration software	~
I accept the agreement	
$\bigcirc$ I do not accept the agreement	
Next >	ancel

3. Select Create a desktop shortcut, select Associate \*.hs, and then click Next.

#### Figure 2 Selecting additional tasks

Setup - HMIStudio		_		×
Select Additional Tasks Which additional tasks should be performed	?			Ì
Select the additional tasks you would like Se then click Next.	tup to perform	while installing I	HMIStudio,	
Additional shortcuts:				
☑ Create a desktop shortcut				
Create a Quick Launch shortcut				
Associate File:				
Associate *.hs				
	< Back	Next >	Cano	el

4. On the confirmation screen, click **Install**.

#### Figure 3 Confirm screen

Setup - HMIStudio	_		×
Ready to Install Setup is now ready to begin installing HMIStudio on your computer.		¢	D
Click Install to continue with the installation, or click Back if you want t change any settings.	to revie	w or	
Destination location: C:\Program Files (x86)\HMIStudio Start Menu folder: HMIStudio Additional tasks: Additional shortcuts: Create a desktop shortcut Associate File: Associate *.hs		~	,
<		>	
< Back Insta	1	Car	ncel

 Read the information and then click Next. The system starts to install HMIStudio.

#### Figure 4 Important information

Catura UM/Studia	$\sim$
	~
<b>Information</b> Please read the following important information before continuing.	
When you are ready to continue with Setup, click Next.	
After the driver has been install, but can't use it.please install manually:	
<ol> <li>If prompt the driver don't install finish When you insert equipment, please ignore.</li> <li>Open the equipment manager , please choose yellow exclamation mark HMI driver and update driver by right-click it.</li> <li>Select from a list or install the specified location (advanced) " In the dialog box.</li> <li>Browse-choose usb the driver location-"\usbdriver".</li> <li>Click next - finish ;That can finish the manual steps to install the driver;</li> </ol>	
Next >	

6. Click Finish.

#### Figure 5 Installation completed

## Install the USB driver

#### $\triangle$ CAUTION:

To avoid operation failures, make sure the LCD module has correct power input during USB driver installation, LCD Configure upgrade, and LCD firmware upgrade.

1. Use a Micro USB cable to connect the USB port on the PC to the Micro USB port on the LCD module. Make sure the PC and the LCD module can reach each other.

#### Figure 6 Connecting the PC to the LCD module



If you connect to the LCD module for the first time, the Windows operating system prompts you to install the USB driver.

- 2. If driver installation fails, perform the following tasks to update the USB driver for the PC:
  - a. Right-click the This PC icon, and then click Manage.

#### Figure 7 Icon menu

	Open	
Thi	Pin to Quick access	
	Manage	
	Pin to Start	
	Map network drive	
Net	Disconnect network drive	
	Create shortcut	
3	Delete	
	Rename	
Recy	Properties	

b. Click Device Manager to open the device list.

#### Figure 8 Device Manager



c. Select USB MSC > Update driver.



Figure 9 Accessing the driver update screen

d. Click Browse my computer for drivers. Figure 10 USB driver update screen

$\rightarrow$	Search automatically for drivers	
	Windows will search your computer for the best available driver and install it on your device.	
->	Browse my computer for drivers	
	Locate and install a driver manually.	

e. Browse to the usbdriver folder in the HMIStudio installation directory, and then click Next.

#### Figure 11 Selecting the driver program

÷	Update Drivers - USB MSC		
	Browse for drivers on your computer		
	Search for drivers in this location:           C:\Program Files (x86)\HMIStudio\usbdriver         ~           Include subfolders	Browse	
	→ Let me pick from a list of available drivers on my com This list will show available drivers compatible with the device, and all category as the device.	nputer drivers in the same	
		Next	Cancel

f. Click Install this driver software anyway if the security prompt opens. Figure 12 Windows security prompt

Installing drivers	
<ul> <li>✓ Windows can't verify the publisher of this driver software</li> <li>→ Don't install this driver software</li> <li>You should check your manufacturer's website for updated driver soft your device.</li> <li>→ Install this driver software anyway</li> </ul>	×
<ul> <li>→ Don't install this driver software</li> <li>You should check your manufacturer's website for updated driver sof</li> <li>your device.</li> <li>→ Install this driver software anyway</li> </ul>	are
$\rightarrow$ Install this driver software anyway	software for
Only install driver software obtained from your manufacturer's websi disc. Unsigned software from other sources may harm your compute information.	bsite or ıter or steal
See details	

#### Figure 13 Starting to update the driver

		$\times$
$\leftarrow$	Update Drivers - USB MSC	
	Installing drivers	

#### g. Click Close.



Update Drivers - Smart Control Device

#### Windows has successfully updated your drivers

Windows has finished installing the drivers for this device:

Smart Control Device

Close

 $\times$ 

#### NOTE:

After driver installation, restart the operating system of the PC for the driver to take effect.

## Installation FAQ

### Application error occurred during HMIStudio installation

#### Figure 15 Application Error



To resolve the issue:

- 1. Re-install the vcredist\_x86 2008 driver program. The program is saved in the installation directory of HMIStudio. For more information, see "Install the USB driver."
- 2. After the driver installation succeeds, install HMIStudio again.

# The system prompts failure at USB driver installation in the Windows 10 operating system

To resolve the issue:

- 1. Click Settings > Notifications, and select All Settings > Update & Security > Recovery. In the Advanced startup section, click Restart Now.
- 2. Select Troubleshooting > Advanced options > Startup settings > Restart.
- **3.** Enter **7** as prompted to disable driver signature enforcement. Wait for the system to restart, and then install the USB driver again.

# **Upgrade LCD Configure**

- 1. Contact Technical Support to obtain the upgrade file for LCD Configure. The upgrade file is a compressed file in the .knr format.
- 2. Run HMIStudio, and click File(F) > Pack/Unpack.

Figure 16 HMIStudio homepage



**3.** Browse to the LCD Configure upgrade file, specify the save path, specify the name of the unpacked file (the file extension must be .hs), and then click **Start UnZip**.

📘 压缩/解压	Ĩ	2	×
- Generate the a Save Path:	zip file: Brow	/se	
	Start Compress		
Unzip the files			
Compresse	Brow	se	
Save Path:	Brow	se	
	Start UnZip		
		(	)%
		Close	

Figure 17 Pack/Unpack dialog box

4. After unpacking, click File(F) > Open Project(O).

#### Figure 18 Opening the project file

HMIStudio					
File(F) Edit(E) View	(V) Cont	trol(			
New Project(N)	Ctrl+N				
😰 Open Project(O)	Ctrl+O				
Close		_			
Save(S)	Ctrl+S	3			
Save As					
Recent Projects	×				
Pack/Unpack					
Exit(Q)					
	en				

5. Select the .hs LCD Configure upgrade file.

#### Figure 19 Selecting the LCD Configure upgrade file

■ 打开文件		×
$\leftarrow \rightarrow \lor \uparrow$ <b>I</b> > This PC > Desktop	V ひ Search	h Desktop 🔎
Organize 👻 New folder		::: • 🔳 🕜
Desktop 🖈 ^ Name	Date modified	Type Size
<ul> <li>Downloads *</li> <li>Documents *</li> <li>Pictures *</li> <li>hmi_stdio</li> <li>Image</li> <li>Music</li> <li>Videos</li> <li>OneDrive</li> <li>This PC</li> </ul>	10/17/2022 1:46 AM	HS File 354
🥩 Network 🗸 <		>
File name:	<ul> <li>✓ *.hs</li> </ul>	Open Cancel

- 6. Click the download icon in the tool bar to start compiling the project file. After compilation, the **Download** dialog box opens.
- 7. Click **Download**. If the system prompts script compiling failure, restart the PC.

#### Figure 20 Download dialog box

DownLoad	?	×
USB DownLoad		
O Download To U Disk		
DownLoad Chinese character library     DownLoad	Close	

After downloading, the dialog box displays **Download PLC driver**, which indicates that LCD Configure upgrade succeeded.

Figure 21 Downloading succeeded

DownLoad	?	$\times$
USB DownLoad		
O Download To U Disk		
Download page21infomation		^
Download page22infomation		
Download page23infomation		
Download PLC driver		~
DownLoad Chinese character library DownLoad C	lose	

# **Upgrade the LCD firmware**

- 1. Contact Technical Support to obtain the LCD firmware upgrade file (.bin file).
- 2. Run HMIStudio, and click **Tool(T)** > **upgrade**.

#### Figure 22 Tool menu

iw\_1.04.hs--服务器信息

)	То	ol(T)	Help(I	H)	Langu	lage(L
) <u>.                                    </u>	食 Upload Data					
.0	•••	Dowr	nLoad p	oroje	ect(D)	1
₽₽	🕫 🔜 OffLine Simulation 💦 🦂					
	Conline Simulation					
_	€	upgra	ade			
ٵ		insta	all usb (	drive	er	:PU
itu	ıs 🖁	⊠Ma	onitor	臣	Info	#Se

**3.** Browse to the LCD firmware upgrade file, select the USB download option, and then click **Start Upgrade**.

Upgrade				?	×
Upgrade Pi	C:\Users De	sktop\H3C200227-001-035V	V01.bin	Brow	150
	● USB下载				
Start Upgrade					

Figure 23 Upgrade dialog box

The system prompts upgrade success if the operation succeeds.

#### Figure 24 Firmware upgraded successfully

Upgrade		State Britistik nav 1950 S	? ×
Upgrade Pi	C:\Users\ \Desktop\	H3C200227-001-035W01.bin	Browse
	● USB下载	○ 串口下载	
Start Upgrade			
	升级成功		
line St	en de l'activ		

#### NOTE:

After the firmware upgrade, the LCD module restarts automatically for the new firmware to take effect.