Syringe pump software updating instruction

To upgrade a software of syringe pump, we need a USB cable, an upgrading module, a computer and a syringe pump.

- 1. Install USB driver named as "PL2303_Prolific_v1.7.0" after connecting USB to your computer (that is to say, you need to connect USB cable to your computer first, then install this USB driver)
- 2. Set upgrading module according to picture (1) .Use RS232 Serial Line or **USB line** to connect with a fixture and computer. Insert the fixture to the syringe pump.



Picture (1)

Picture (2)



- 3. Double-click to open the program
- 4. Select serial port like COM1 and select 115200, select the Program files For example, PV1000S.hex

syringe pump upgrading

manual

	Click and select the file you want
STM32F ISP STM32F IAP Read Chip Info (R) Start ISP (P) Erase Chip (Z) Verify Run After ISP complete Not Use RTS&DTR Option Bytes: RDP: C3 A5 disable RDP, others enable WRPs: FF FF FF FF (WRP3-WRPO) HW Options: FF Data: FF FF Program OptionBytes when ISP	Connect Ok @COM1@115200bps,@140ms BootLoader Version:2.2 FTD:00000000 FLASH ROM size:128KB SRAM size:65535KB 96bit unique device ID:54FF74064975485743421787 FULL chip erase Ok!!! @187ms,Ready for Program Write 125KB Ok,100%,@32109ms Write Option Bytes: C3 3C FF 00 FF 00 FF 00 FF 00 FF 00 FF 00 FF 00 Write Option Bytes: C3 3C FF 00 FF 00 FF 00 FF 00 FF Write Option Bytes: C3 3C FF 00 FF 00 FF 00 FF 00 FF Write Option Bytes: C3 3C FF 00 FF 00 FF 00 FF 00 FF Write Option Bytes: C3 3C FF 00 FF 00 FF 00 FF 00 FF 00 FF 00 FF 00 FF 00 Write Ok www.mcuisp.com:Mission Complete, Anything Ok!!!

5. **Keep pressing and hold on** the power key until upgrading is finished.Click **Erase Chip (Z)** to erase program. After erasing program, click **Start ISP(P)** to download program to syringe pump.

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<u>System</u> <u>H</u> elp <u>L</u> anguage	
COM1 : 空闲 通讯端口 🗾 115200	www.mcuisp.com
Program File:	
F:\软件工具\eisp stm32串口烧录\HK-100.hex	🔽 Auto Reload Before Program
STM32F ISP STM32F IAP	Connect Ok @COM1@115200bps,@140ms
Read Chip Info(R) Start ISP(F)	DD0 LD0000 FID:0000000 FLASH ROM size:128KB SRAM size:65535KB 96bit unique device ID:54FF74064975485743421787
Erase Chip(Z)	FULL chip erase Ok!!! @187ms. Ready for Program
Not Use RTS&DTR	Write 125KB Ok, 100%, @32109ms Write Option Bytes: C3 3C FF 00 FF 00 FF 00 FF 00 FF
Option Bytes:	00 FF 00 FF 00 Write Option Bytes Ok
RDP: C3 A5 disable RDP, others enable	www.mcuisp.com:Mission Complete,Anything Ok!!!
WRPs: FF FF FF (WRP3-WRP0)	
HW Options: FF	
Data: FF FF	
🔽 Program OptionBytes when ISP	

6. Now switch the key to the "从" side. And continue to upgrade sub program as per procedure 4 and 5. (PIs refer to the below)



1) Select the sub program



Keep pressing and hold on the power key until upgrading is finished.Click **Erase Chip (Z)** to erase sub program. After erasing sub program, click **Start ISP(P)** to download the sub program to syringe pump.

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System Help Language			
COW1 : 空闲 通讯端口	▼ 1152	10 www.mcuisp.com	
Program File:			
F:\软件工具\eisp stn32串口旋	录\UK-100.hex	🔽 Auto Reload Before Program	
SIM32F ISP STM32F IAP		Connect Ok @COM10115200bps, 0140ms	^
Read Chip Info(R)	Start ISP (F)	PID:00000000 PLASH ROM size:128KB SRAW size:5555KB	
Erase Chip(Z)	♥ Verify ■ Run After ISP complete	96bit unique device ID:54FF74064975485743421787 FVLL chip erase 0k!!! @187ns, Ready for Program	
Not Use RTS&DTR	<u>.</u>	Write 125XB Ok, 100%, 032109ms Write Option Bytes: C3 3C FF 00 FF 00 FF 00 FF 00 FF	
Option Bytes:		00 FF 00 FF 00 Write Ontion Bytes Ok	
RDP: C3 A5 di	sable HDP, others enable	www.ncuisp.com:Wission Complete, Anything Ok!!!	
VRPs: FF FF	TT (YRF3-WRPO)		
HW Options: FF			
Data: FF	1		
🔽 Program OptionBytes when	ISP		-1
			H
			1

Attention: During program downloading to syringe pump, pls be sure to keep pressing on power key.

7. After finishing upgrading, unplug the upgrading module and turn on the machines. Set the time and calibrate it again if necessary.