

SENSING module firmware update operation instructions

一、Overview

The ISP firmware update function inside the SENSING module requires the use of SENSING 's SG8-U30-GMSL2-T4 hardware and SensingCaptureV2 host computer software. The host computer software tool only supports use on win10 and win11 operating systems.

Note: If you update on the car, please power off the entire vehicle before performing the update operation, because the electromagnetic signals on the entire vehicle will interfere with the upgraded equipment, which may cause the update to fail midway

二、Steps for updating module firmware for ISP models of the GW series

1. SENSING's GW series modules include (GW5200, GW5300, GW5400, etc.).
2. Connect the module to SENSING 's SG8-U30-GMSL2 hardware and plug the USB data cable into the computer's USB3.0 data interface, and at the same time plug the FT4222 data cable into the computer.



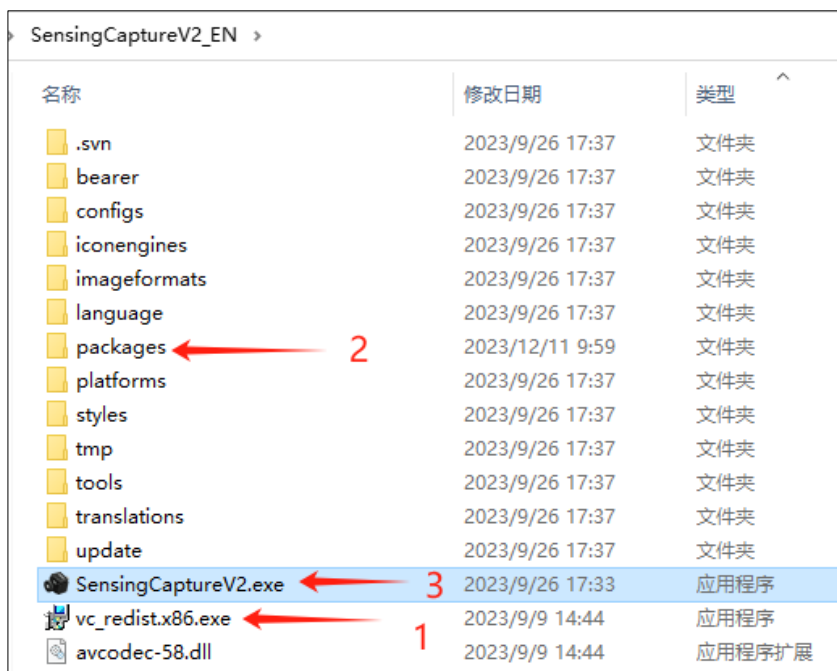
- Open the device manager of the computer. You can see the "SENSING_USB3_CAMERA" device item in the camera project of the device manager, and you can see the FT4222 device item in the Universal Serial Bus Controller project.



- Install the software tool SensingCaptureV2

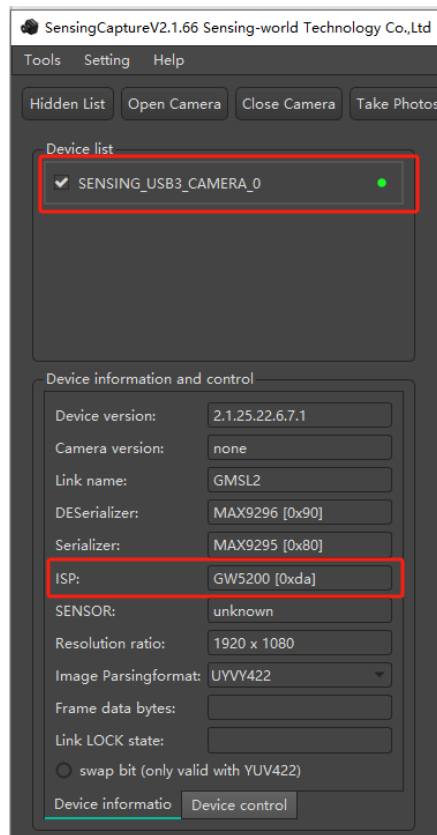
Copy the SensingCaptureV2 software installation package to your PC, unzip it and double click on the following to open it.(Follow steps 1/2/3 to install all installation packages inside)

[SensingCaptureV2_EN_download](#)

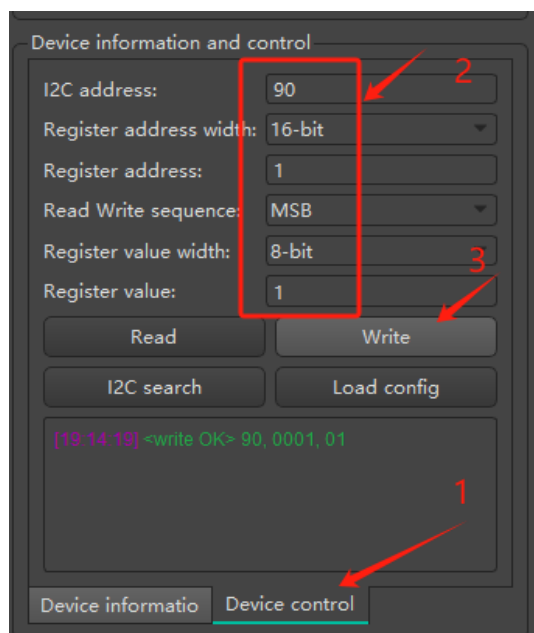


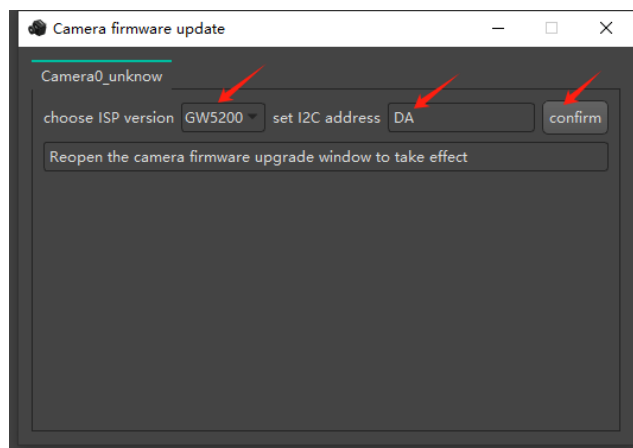
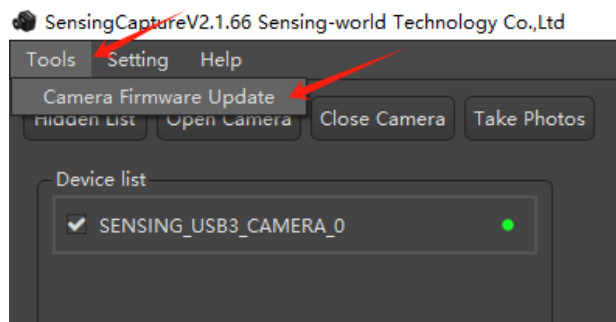
- Open the SensingCaptureV2 tool software, wait for the software tool to recognize the Sensing Cloud SG8-U30-GMSL2 hardware device, select the Sensing Cloud SG8-U30-GMSL2

hardware device in "Device List", and see "ISP" in "Device Info" " is GW5200 (if you don't look further down).

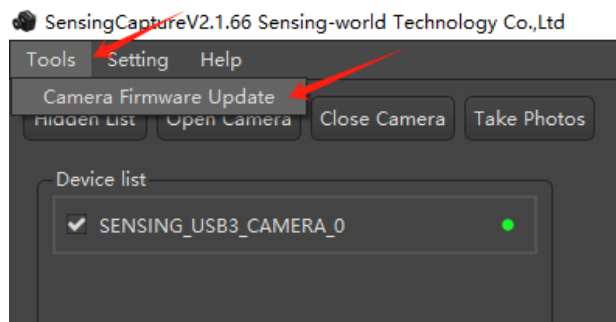


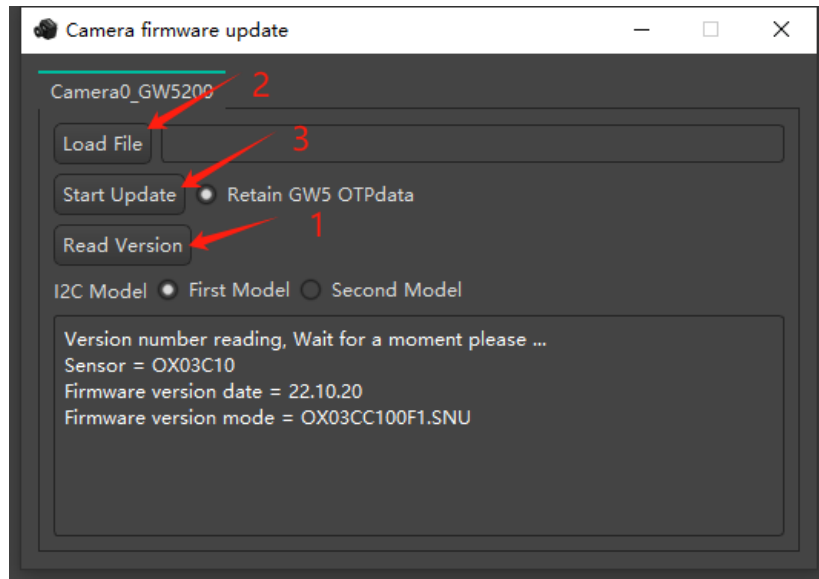
Note: Only if the module label says SGX-XXXX-GMSL2F (the one with the letter F is for 3G mode), you need to add the following interface operations to lock the box and camera:





- Click the "Tools" option in the upper left corner and select the "Camera Firmware Upgrade" item. Then follow steps 1~3 to upgrade. Note: Pay special attention after starting the update as follows! Avoid being distracted by other things to upgrade!





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