Getting Started with GAL USB3.0 Camera
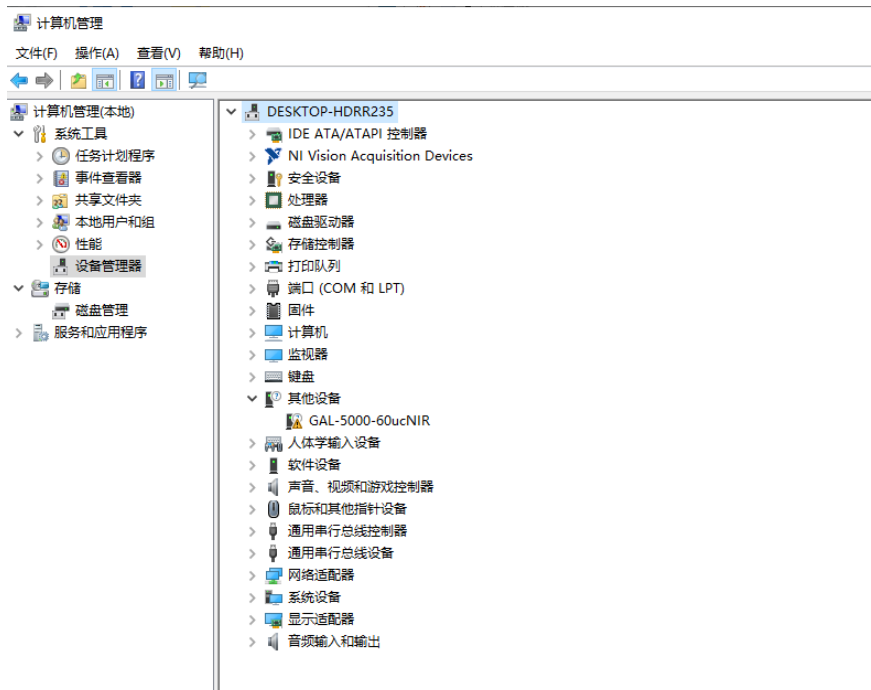
Ver 2.3.1 2023

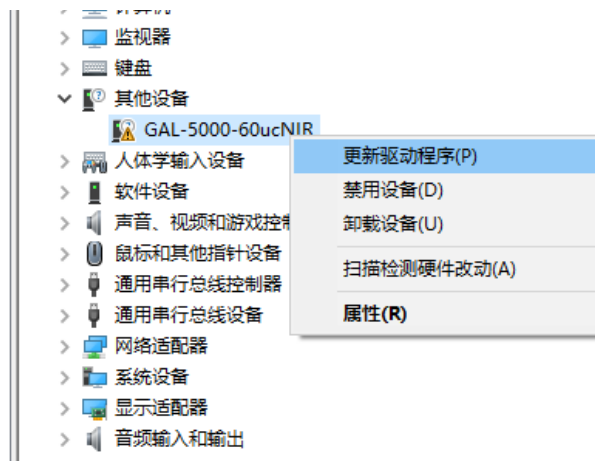# Installation

Hardware Requirements

■ GAL camera
■ USB3.0 cable
■ PC that supports USB3.0 interface
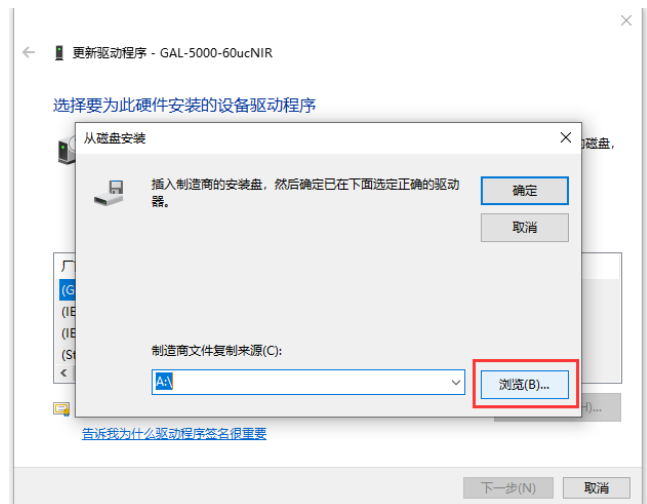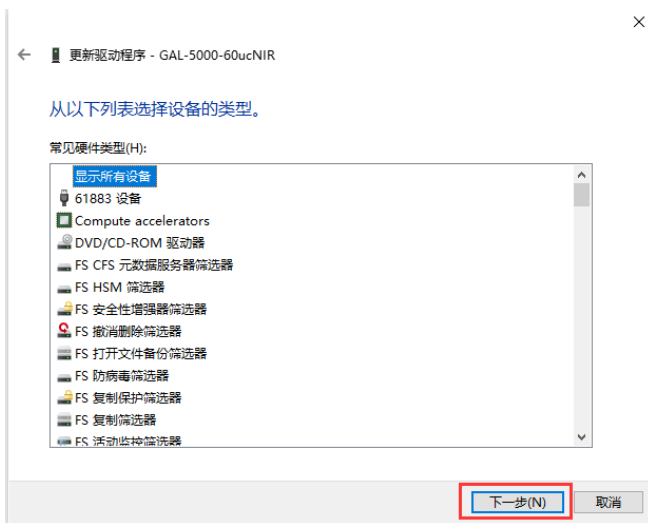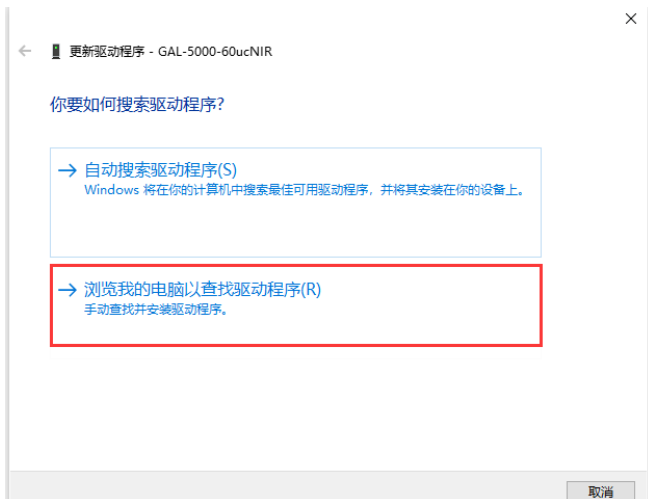
Installation Steps

1. Connect the USB 3.0 interface between the camera and the PC via USB 3.0 cable.
2. Open Computer Device Manager and find the camera device, as shown in the following figure:
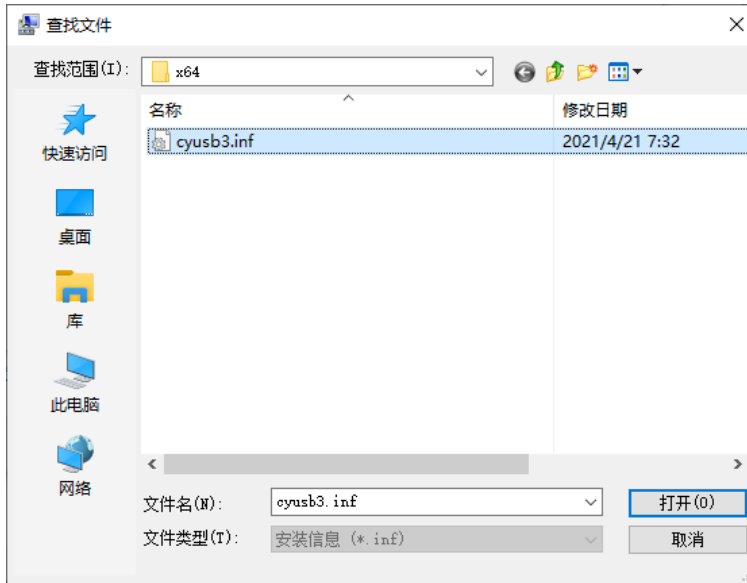

3. Click the corresponding camera model, right-click to run as administrator, as shown below:
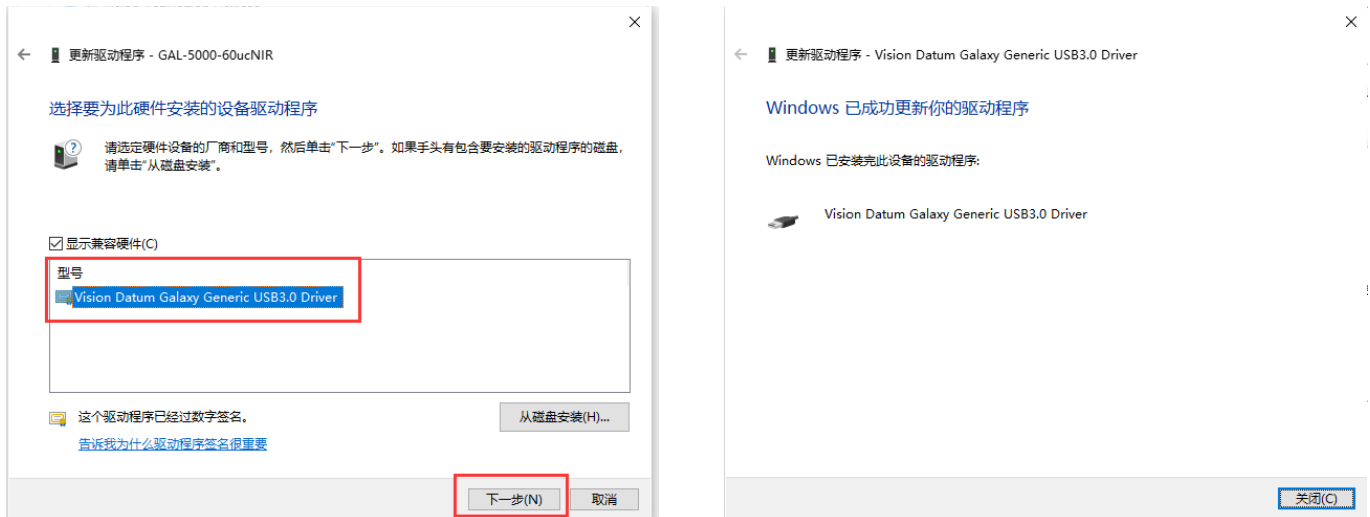
4. According to the pop-up window illustration, select the drive path, as shown below:

更新驱动程序 - GAL-5000-60ucNIR

你要如何搜索驱动程序？

→ 自动搜索驱动程序(S)
　Windows 将在你的计算机中搜索最佳可用驱动程序，并将其安装在你的设备上。

→ 浏览我的电脑以查找驱动程序(R)
　手动查找并安装驱动程序。

取消

更新驱动程序 - GAL-5000-60ucNIR

浏览计算机上的驱动程序

在以下位置搜索驱动程序：

☑ 包括子文件夹(I)

浏览(R)...

→ 让我从计算机上的可用驱动程序列表中选取(L)
　此列表将显示与该设备兼容的可用驱动程序，以及与该设备属于同一类别的所有驱动程序。

下一步(N)　取消

更新驱动程序 - GAL-5000-60ucNIR

从以下列表选择设备的类型。

常见硬件类型(H)：

显示所有设备
61883 设备
Compute accelerators
DVD/CD-ROM 驱动器
FS CFS 元数据服务器筛选器
FS HSM 筛选器
FS 安全性增强器筛选器
FS 撤消删除筛选器
FS 打开文件备份筛选器
FS 防病毒筛选器
FS 复制保护筛选器
FS 复制筛选器
FS 活动监控筛选器

下一步(N)　取消

更新驱动程序 - GAL-5000-60ucNIR

选择要为此硬件安装的设备驱动程序

请选定此硬件设备的厂商和型号，然后单击"下一步"。如果手头有包含要安装的驱动程序的磁盘，请单击"从磁盘安装"。

(正在检索所有设备的列表)

从磁盘安装(H)...

下一步(N)　取消

更新驱动程序 - GAL-5000-60ucNIR

选择要为此硬件安装的设备驱动程序

请选定此硬件设备的厂商和型号，然后单击"下一步"。如果手头有包含要安装的驱动程序的磁盘，请单击"从磁盘安装"。

厂商
(Generic USB Hub)
(IEEE 1667 兼容 ACT)
(IEEE 1667 兼容接收器)
(Standard system devices)

型号
Generic USB Hub

这个驱动程序已经过数字签名。
告诉我为什么驱动程序签名很重要

从磁盘安装(H)...

下一步(N)　取消

更新驱动程序 - GAL-5000-60ucNIR

选择要为此硬件安装的设备驱动程序

从磁盘安装

插入制造商的安装盘，然后确定已在下面选定正确的驱动器。

确定
取消

制造商文件复制来源(C)：
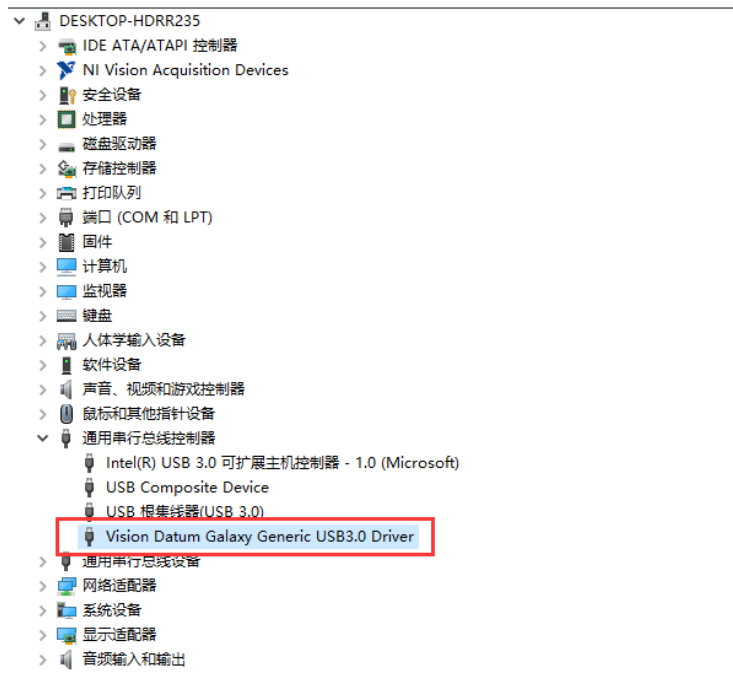
A:\

浏览(B)...

告诉我为什么驱动程序签名很重要

下一步(N)　取消

5. Select the SDK installation package - "Driver" - "USB3.0" - corresponding computer system - select the file ending with .inf, (the following Win10 64-bit system as an example), as shown below:

6. As shown in the figure below, select the camera driver and click Next to install:
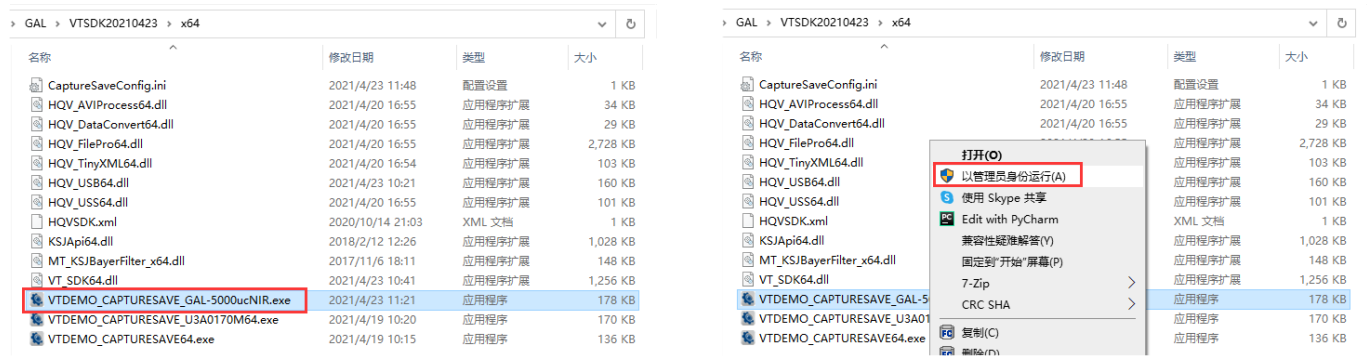

7. The camera driver is displayed in the list, and the installation is successful:

Main Interface

Open the SDK, find the camera driver (x64 is used here as an example), right-click to run as administrator, as shown in the following figure:
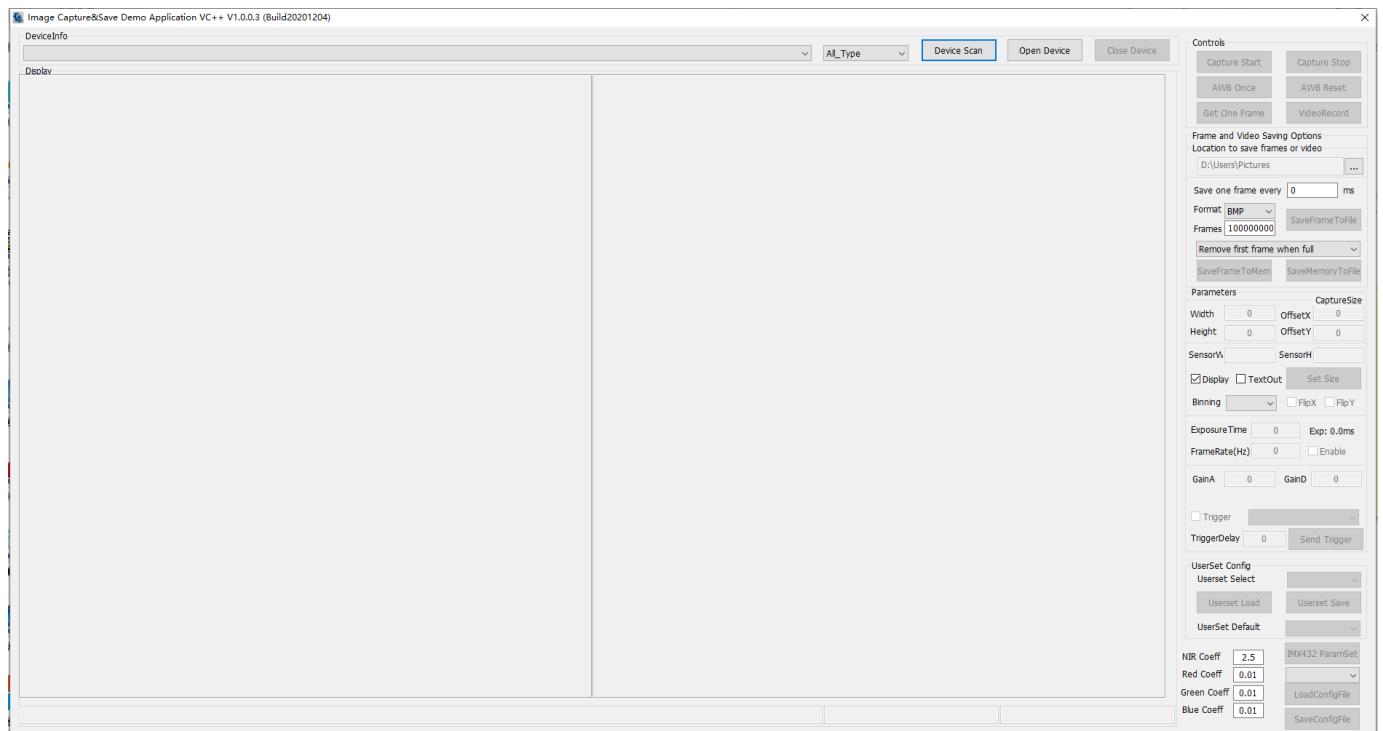

The main interface of the SDK is shown below.

Image Acquisition And Setup

1. Click "Device Scan" to search for the device, and after searching for the corresponding camera device, click "Open Device" to connect the camera:
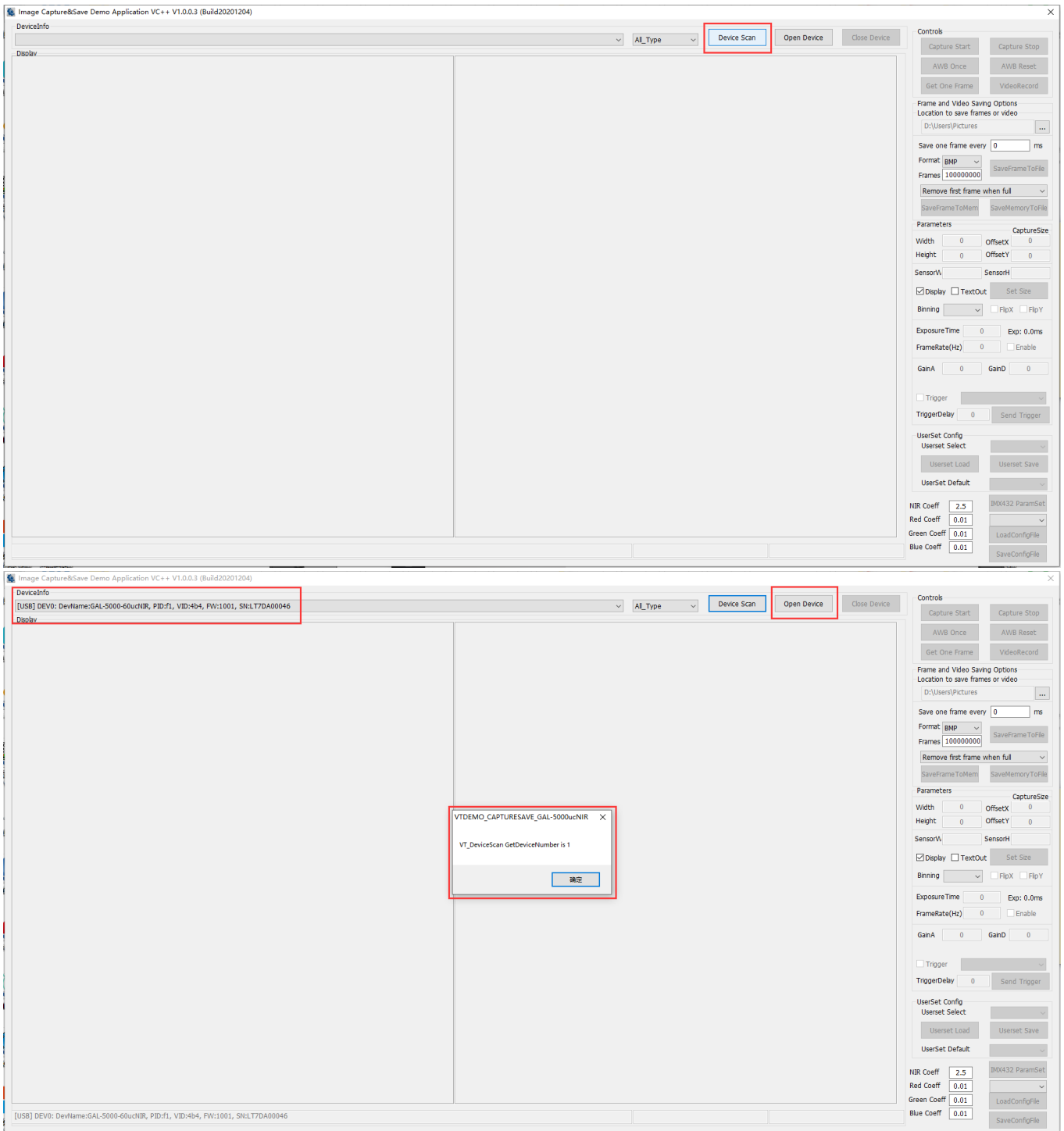
Image Acquisition And Setup

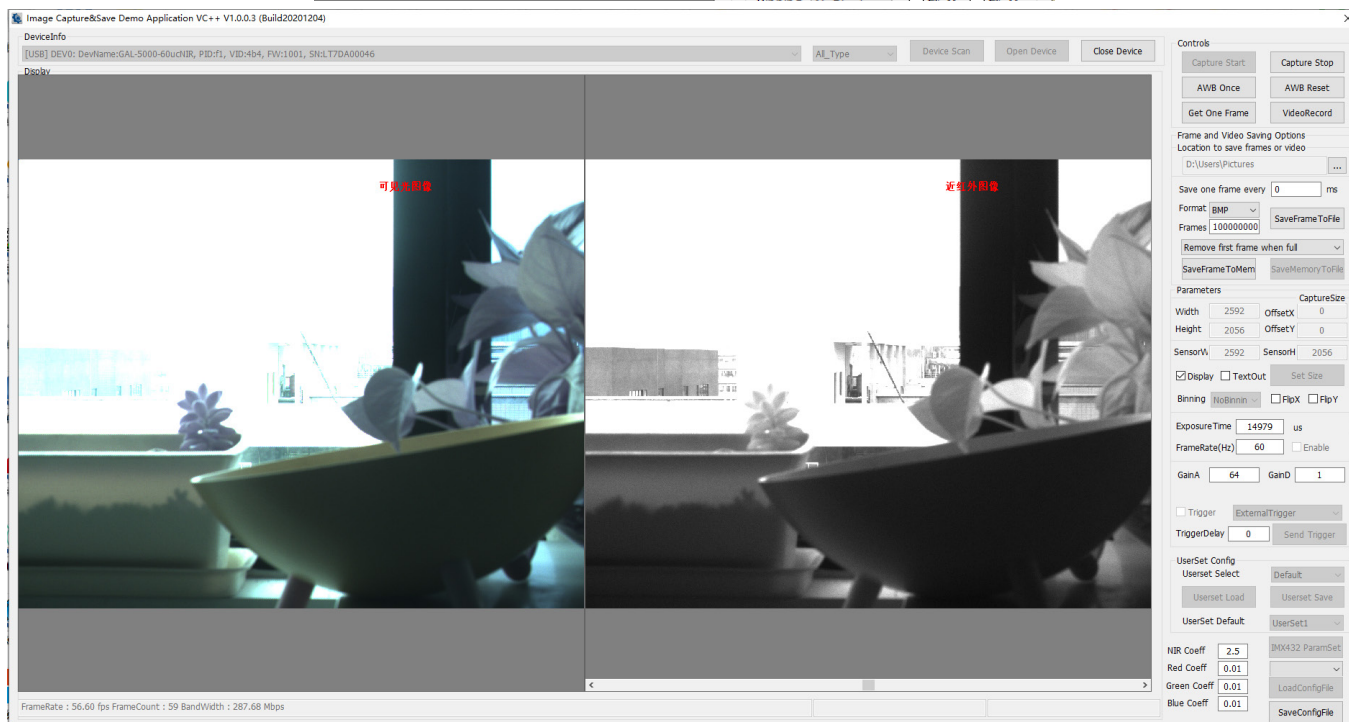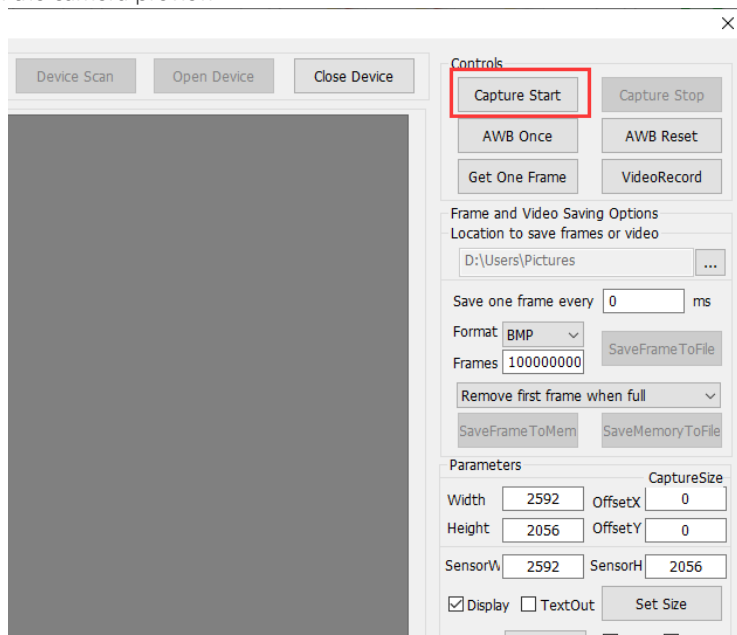2. Click "Capture Start" to open the camera preview

3. Single frame saving

Click the "Get One Frame" button to save a single frame image, which will be directly collected to the root directory of the SDK APP, as shown below:
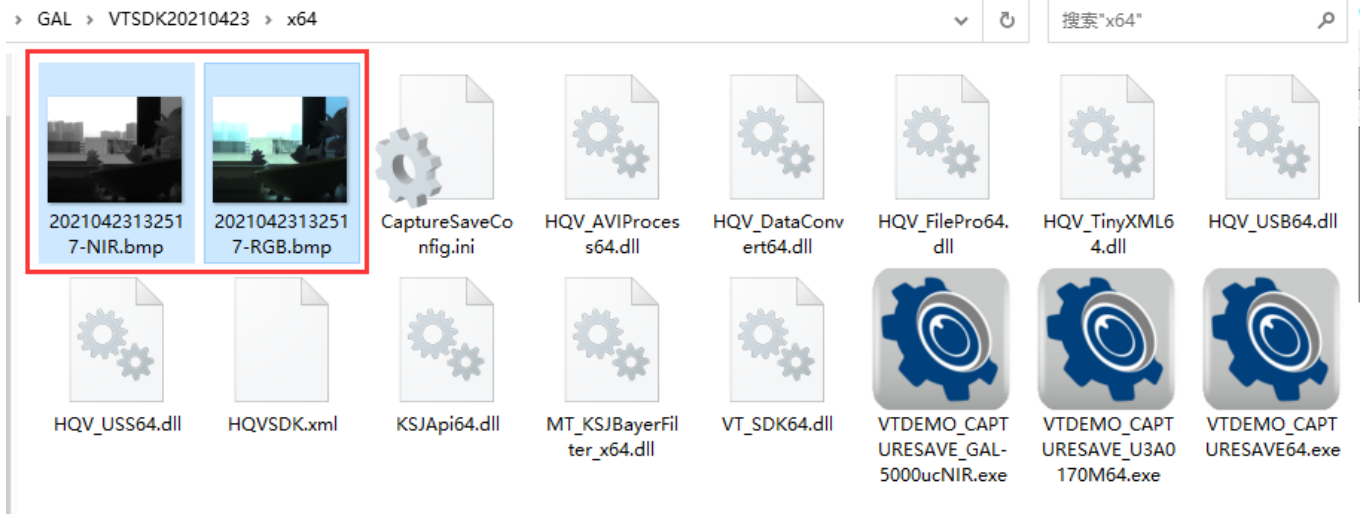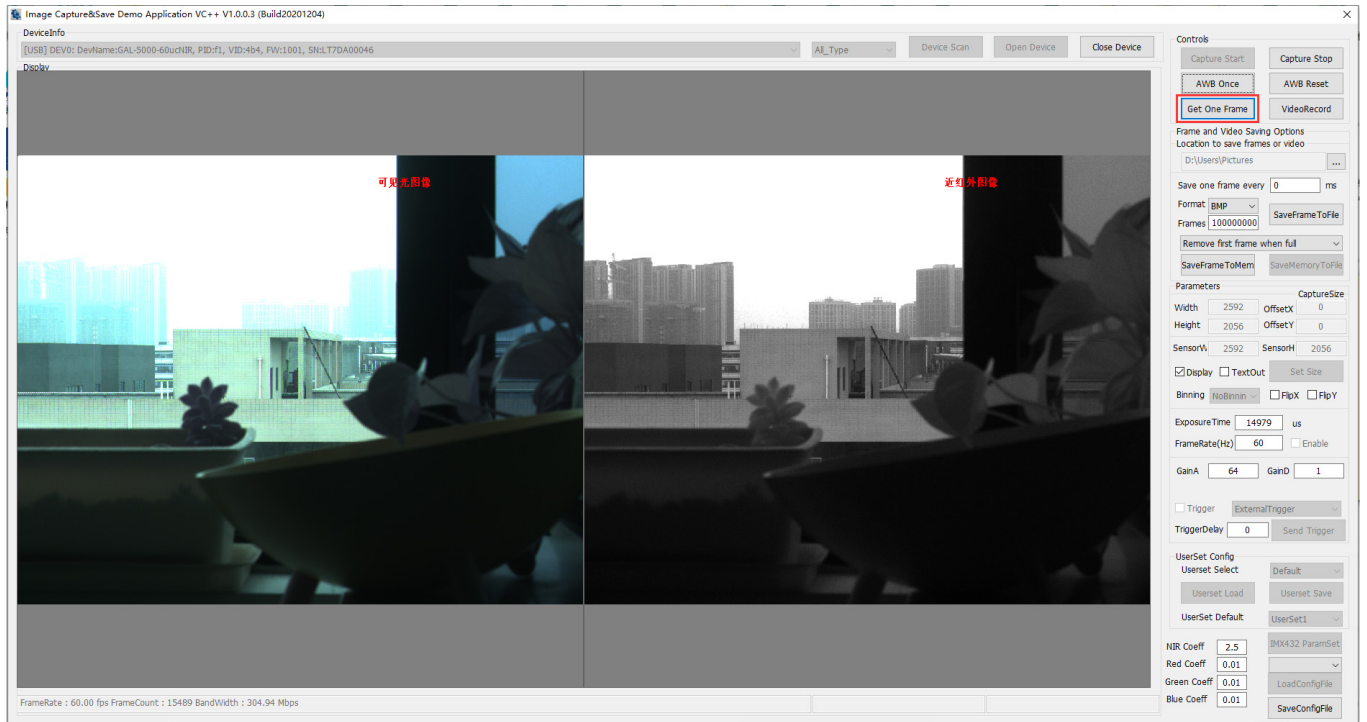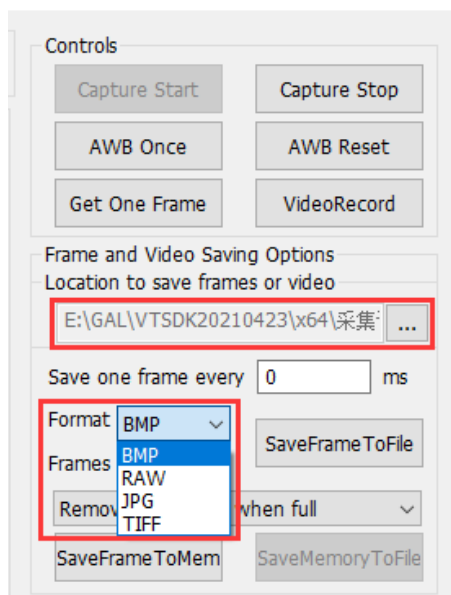
4. Method of collecting set quantity data to a specified path

Supports saving video stream data as BMP, RAW, JPG, and TIFF image files, select the specified save path:

Set the number of frames to be saved, click "SaveFrameToFile", and the camera will save the corresponding number of frames to the setting path, as shown in the following figure:
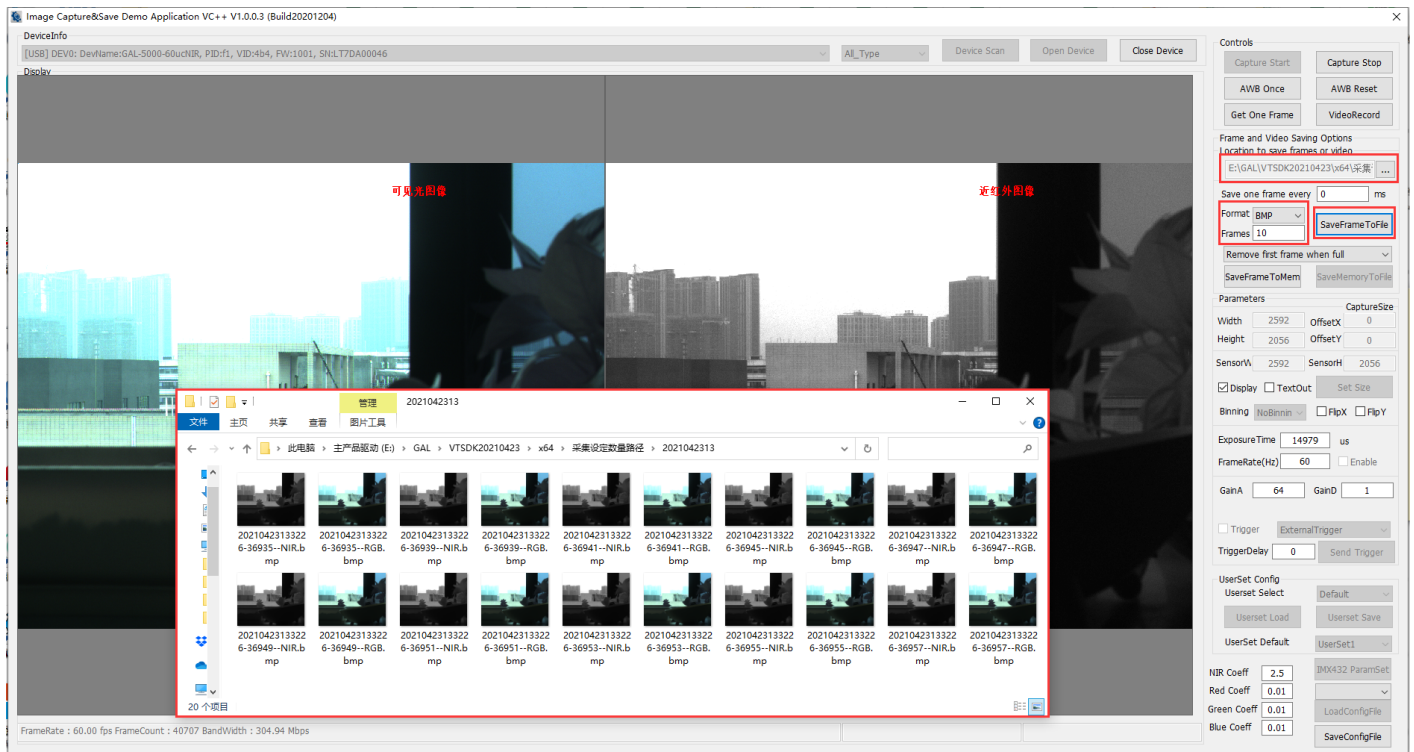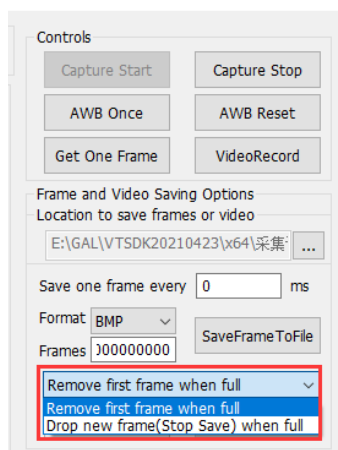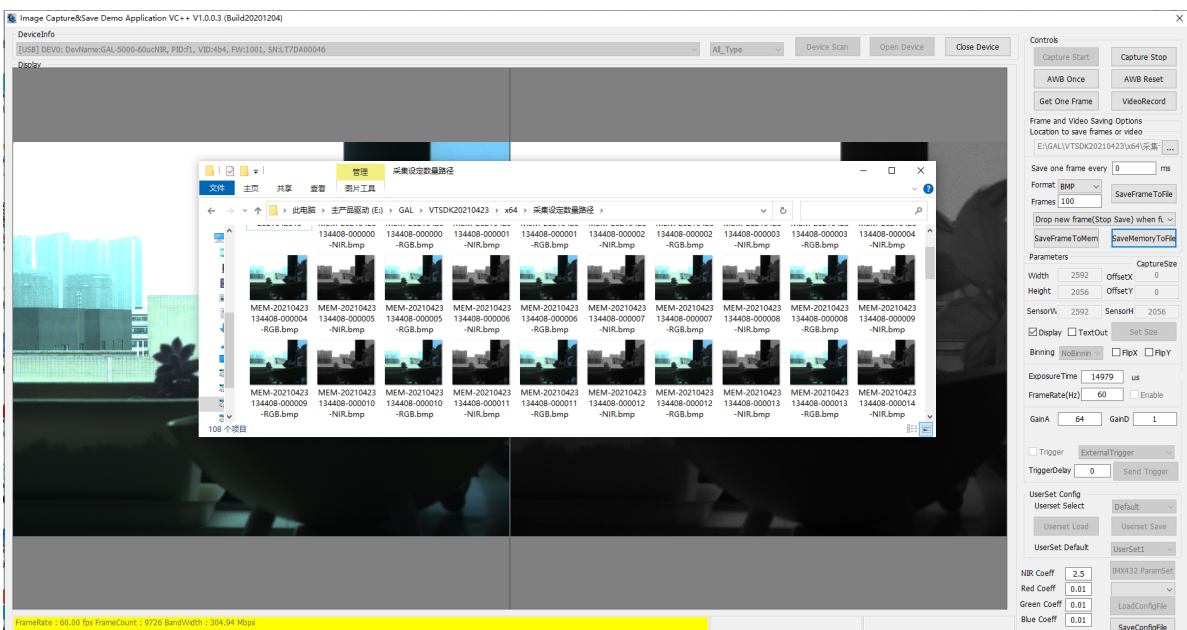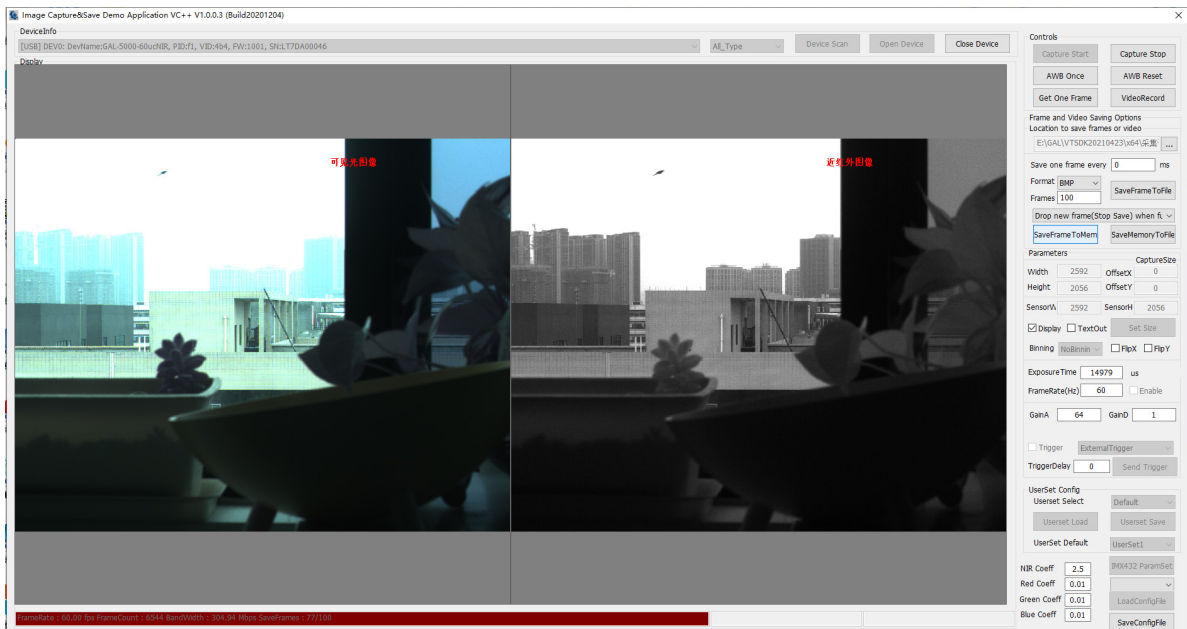
5. Store memory data to the specified hard disk path

Support saving video stream data as "Remove first frame when full" (manually stop data before data overwriting after setting memory) or "Drop new frame (Stop Save) when full" (set the full number of frames to stop), select Drop new frame (Stop Save) when full" mode:

Set the number of frames to be saved, click "SaveFrameToMem", the camera will save the corresponding number of frames to the memory, after saving, the progress bar below turns yellow, click "SaveMemoryToFile", save the set memory image to the specified path, as shown in the following figure:

Technical Support

If you need advice about your camera or if you need assistance troubleshooting a problem with your camera, it's highly recommended to describe your issue in details and contact us via E-mail at support@visiondatum.com

It would be helpful if you can fill-in the following table and send to us before you contact our technical support team.

Camera Model:		Camera's SN:	
Describe the issue in as much detail as possible:			
If known, what's the cause of the issue?			
How often did/does the issue occur?			
How severe is the issue?			
Parameter set			

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Getting Start Guide with GAL