**1 远景拼接**

**1.1 软件安装**

（1）Python安装

安装版本需要为3.8.1~3.8.16，以防配置pycharm出错。

在国内镜像链接（<http://npm.taobao.org/mirrors/python/> ）下载python安装exe文件（Windows 64位机器）。或者在官网（<https://www.python.org/> ）选择下载windows版本。



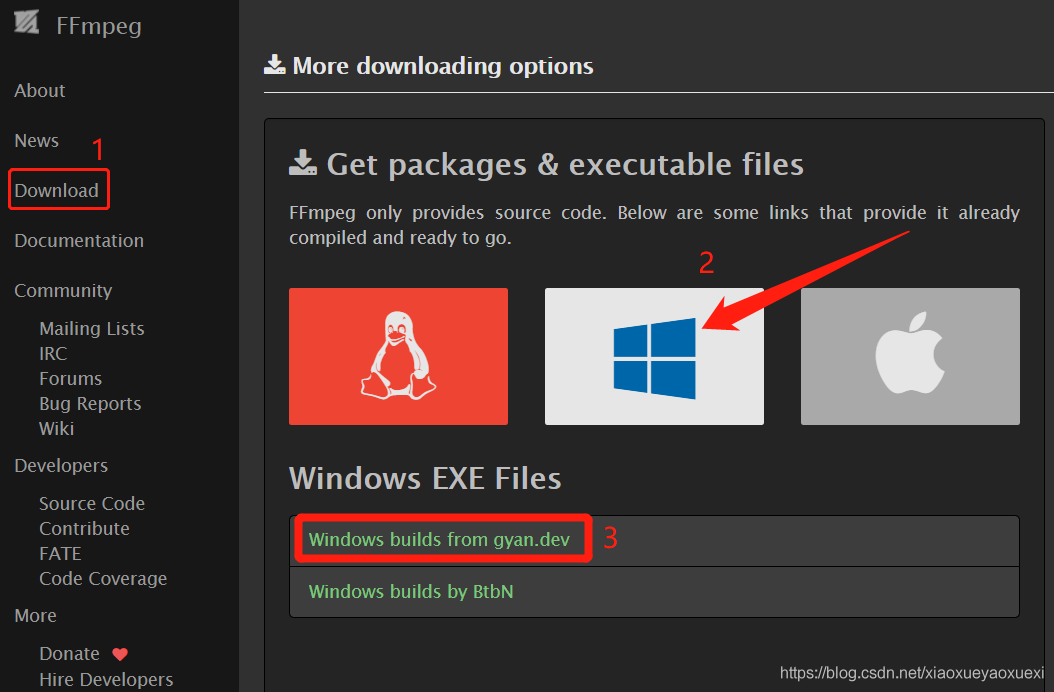
如上图所示勾选安装选项，**若忘记勾选则需要配置环境变量**。

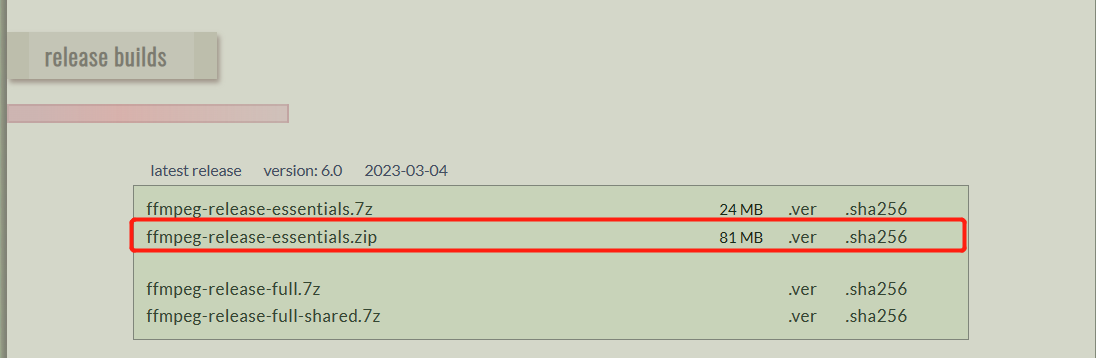
（2）ffmpeg安装

在官网（[https://www.ffmpeg.org/](https://www.ffmpeg.org/" \t "_blank) ）下载，双击安装完成后输入win+r打开命令栏，输入cmd打开终端，然后键入ffmpeg -version来查看是否安装成功。

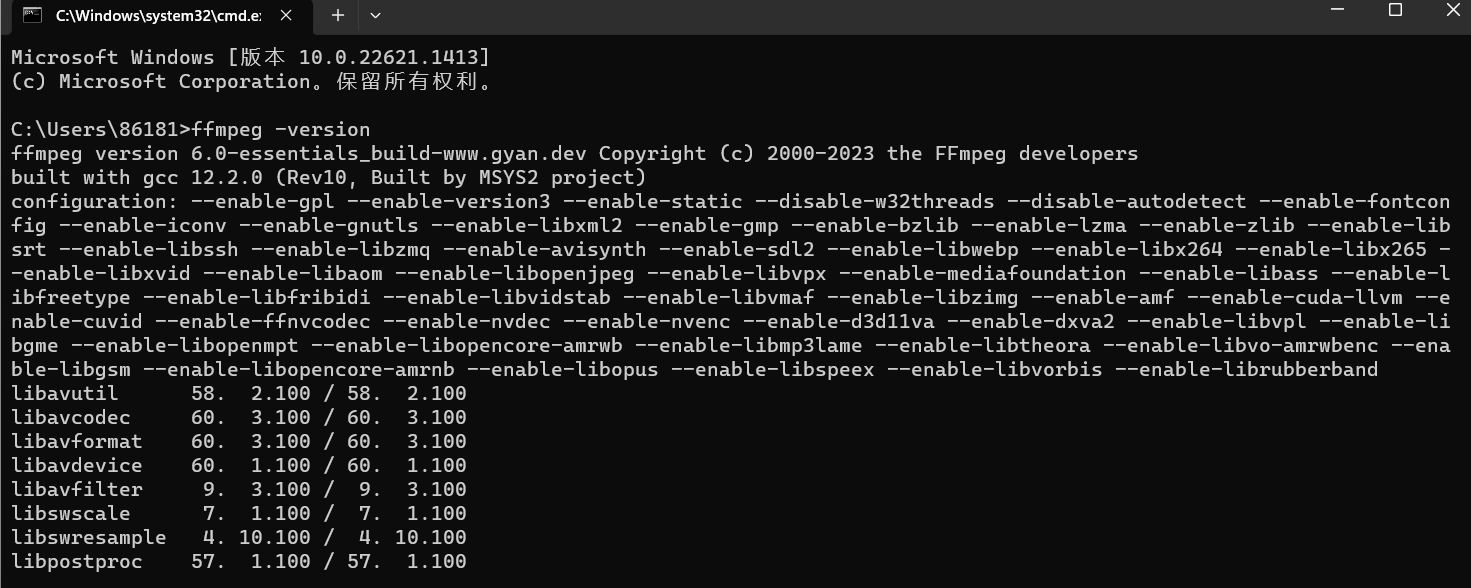


现场采集好的文件如上图所示。解压后双击bat运行程序，如下图所示转换标定所需图片（**此程序需要ffmpeg.exe才能转换成功**）。





按照图中步骤进行下载（**此安装包需要配置环境变量**）。



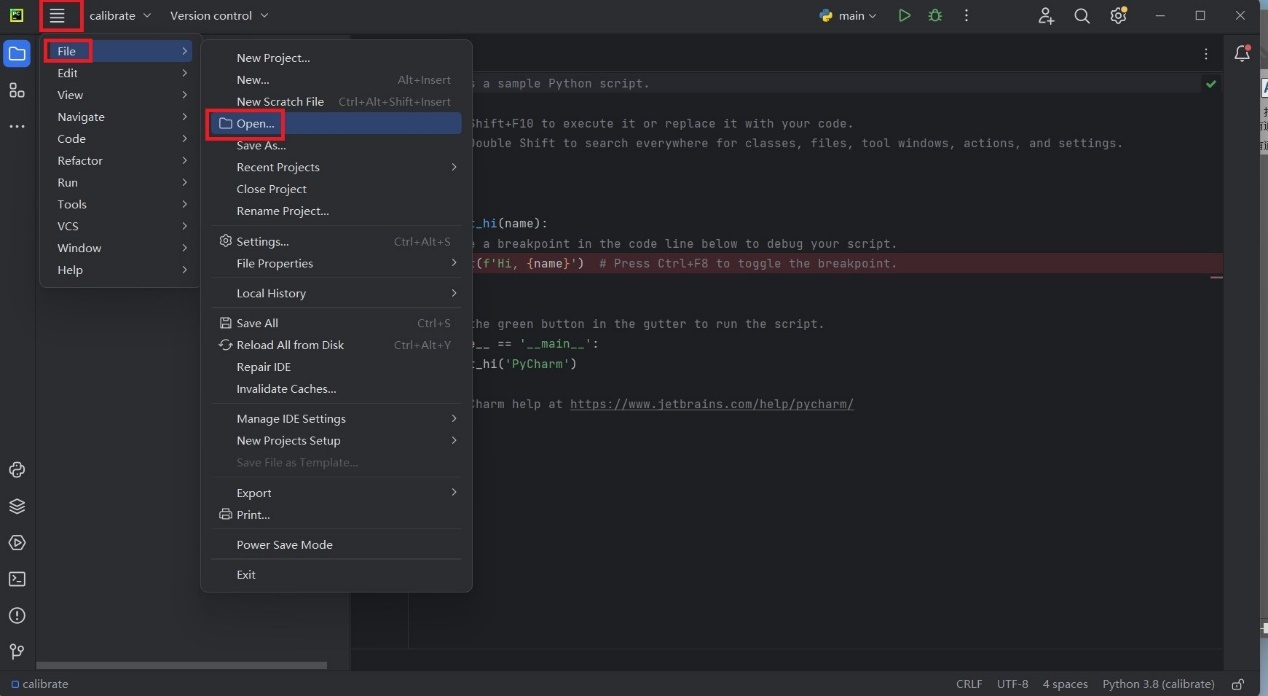
（3）Pycharm安装

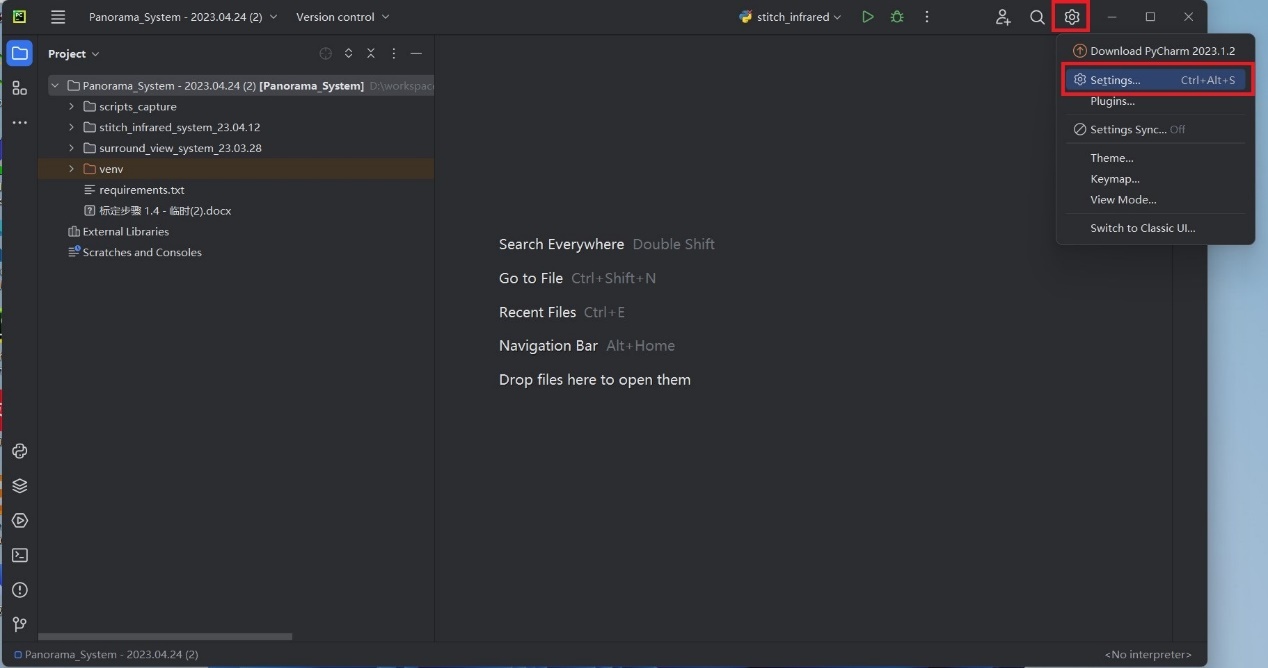
如图所示在官网（[https://www.jetbrains.com/pycharm/download/#section=windows](https://www.jetbrains.com/pycharm/download/" \l "section=windows) ）下载。

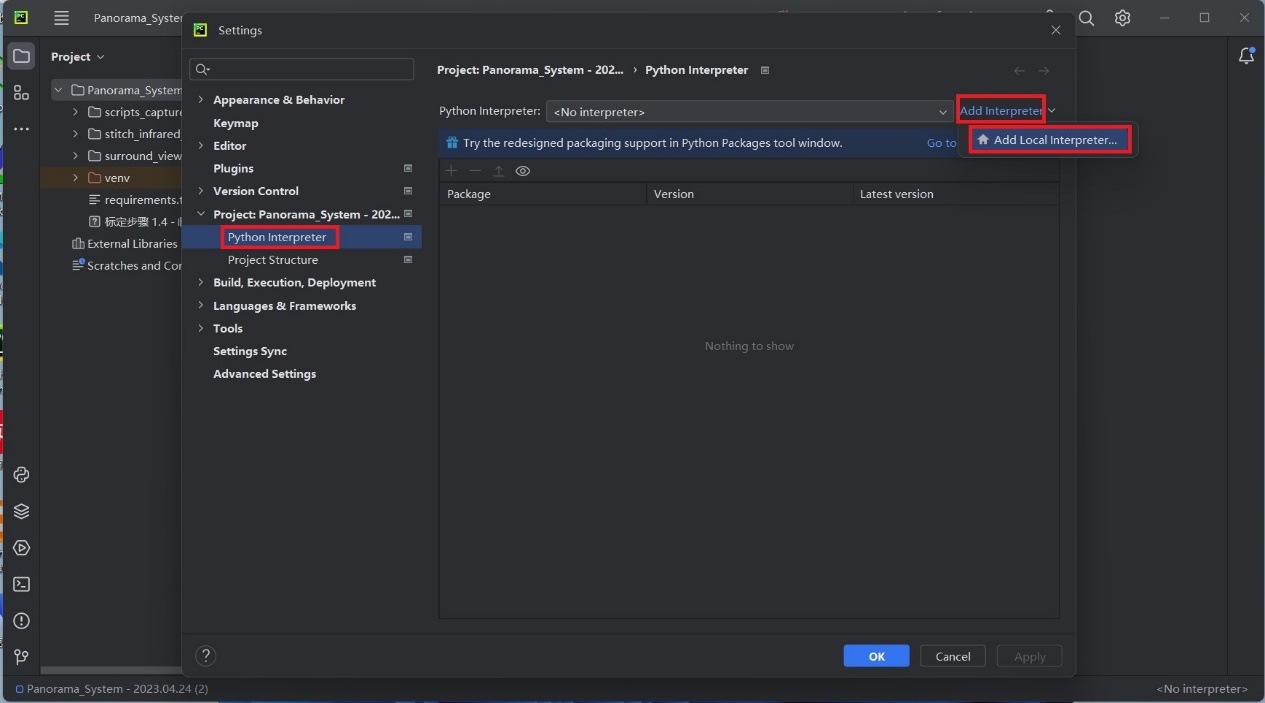


安装好之后，双击运行。

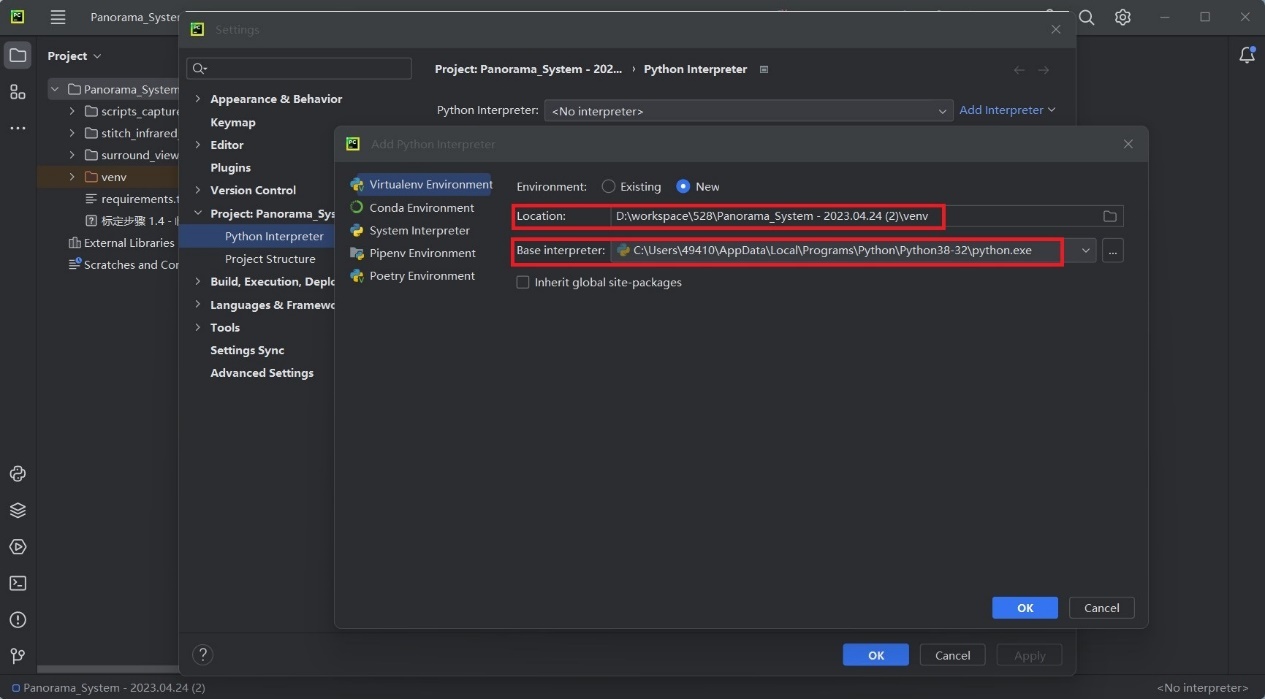
依次选择文件→打开→Panorama\_System，打开项目，并添加之前下载的python38解释器。



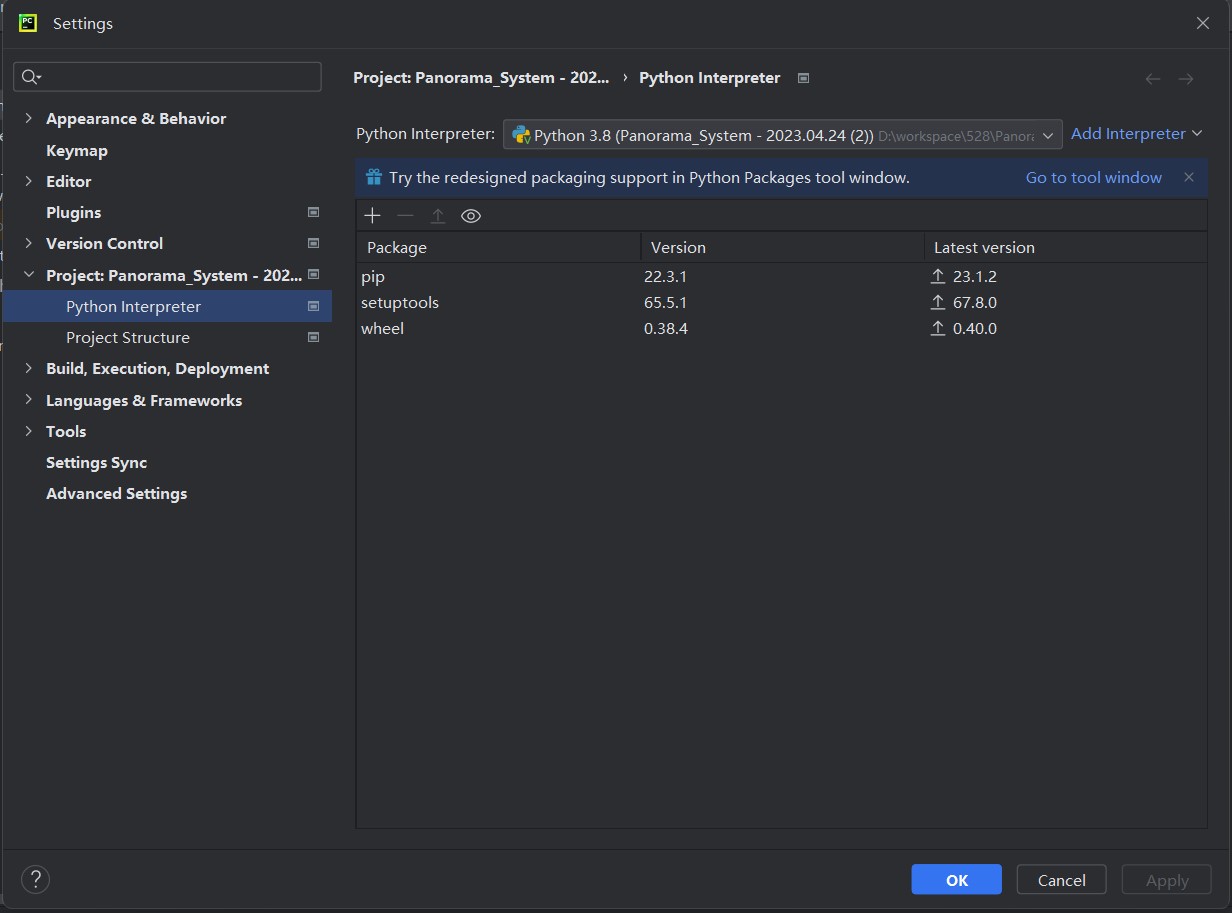




**选择环境目录时需要保证location的目录为空。**

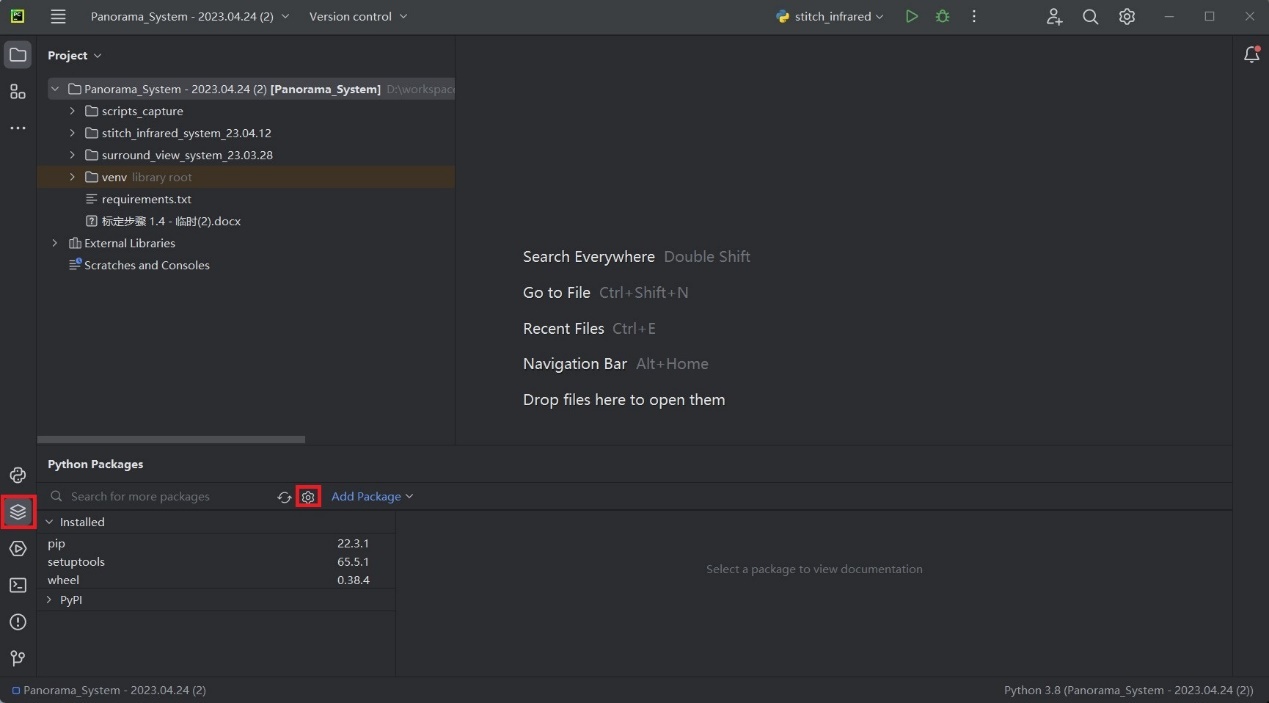


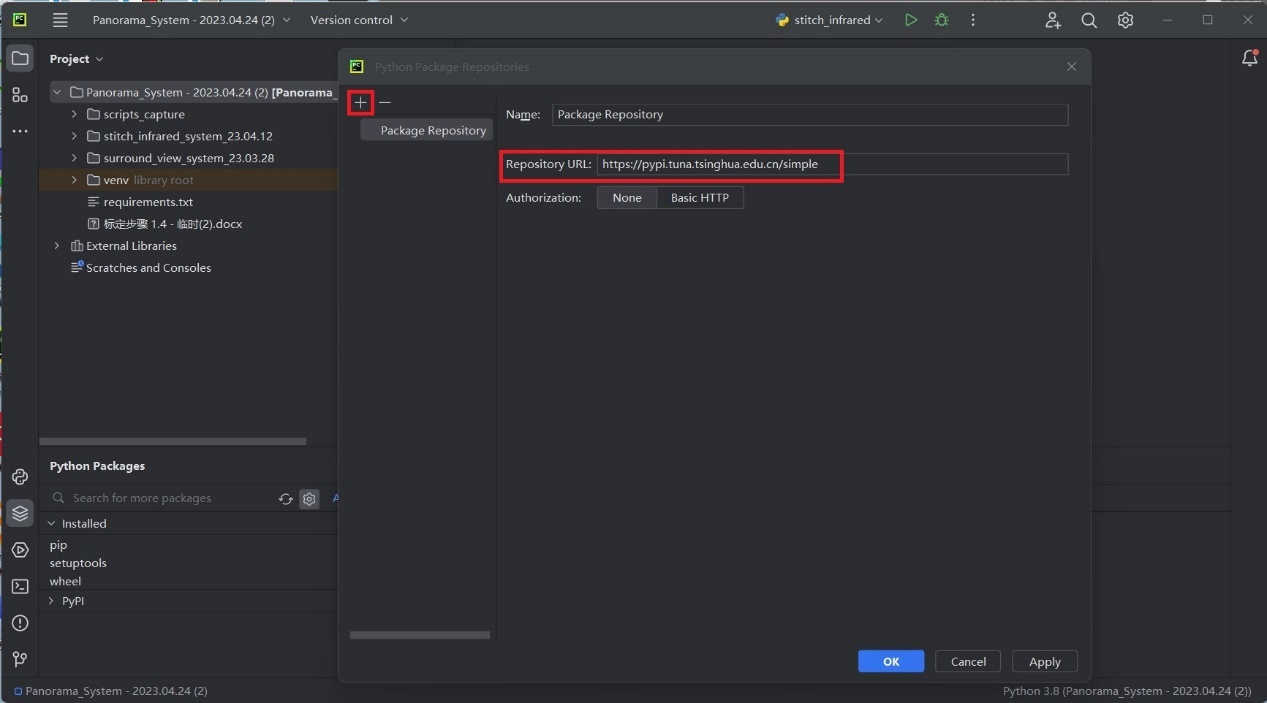
添加成功后可以看到当前已安装的依赖包。



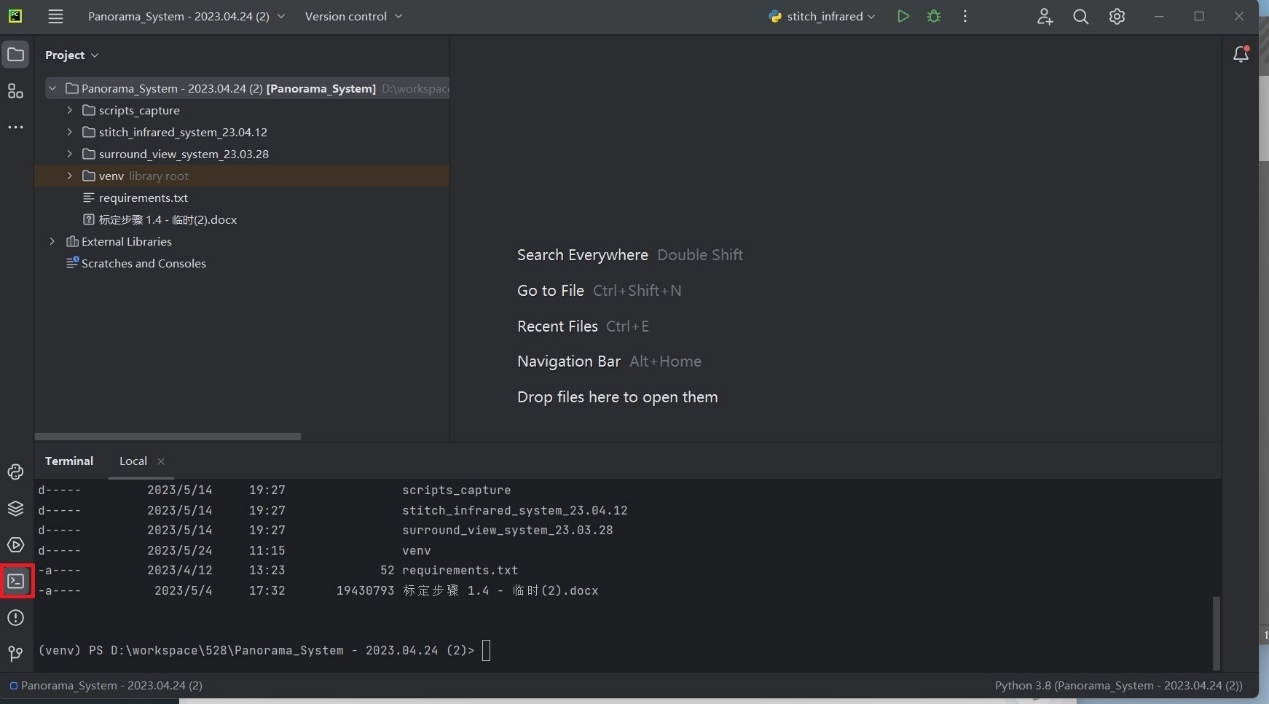
然后将国内源添加到pycharm中（为保证后续依赖包下载速度）：

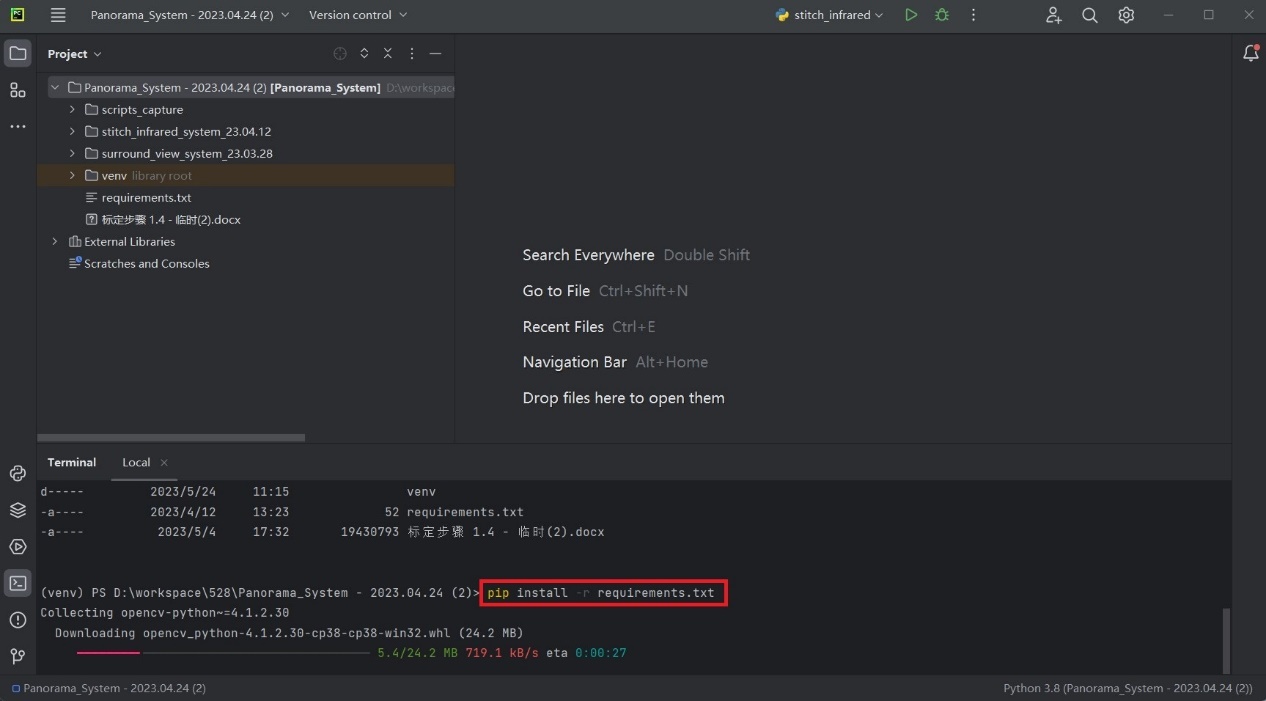
<https://pypi.tuna.tsinghua.edu.cn/simple>



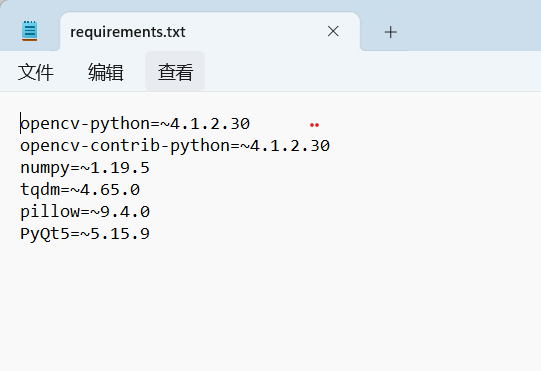


添加完成后打开pycharm内置终端，根据requirements.txt文件安装依赖包，正常情况下终端默认路径即为requirements.txt路径，可以输入ls查看当前路径下是否存在requirements.txt，确认路径正确后在终端中输入pip install -r requirements.txt。若路径错误，可使用cd切换路径。





搜索所需要的安装包，版本必须是以下（**否则项目配置运行不成功会报错**）；



**1.2 远景标定**

**1.2.1 准备工作**

软件工具：Ptgui，车载机箱

板端目录：/emmc/avs/data/stitch\_6\_640\_512\_1737\_690/

标定工程：

（1）工程目录：\*\*\*/Panorama\_Syetem/stitch\_infrared\_system

（2）软件运行环境：python 3.8.13，opencv-python 4.1.2，numpy等

运行脚本，控制车载的六个红外摄像头拍摄画面，回传到PC。



采集的红外图像

**1.2.1 初次图像标定**

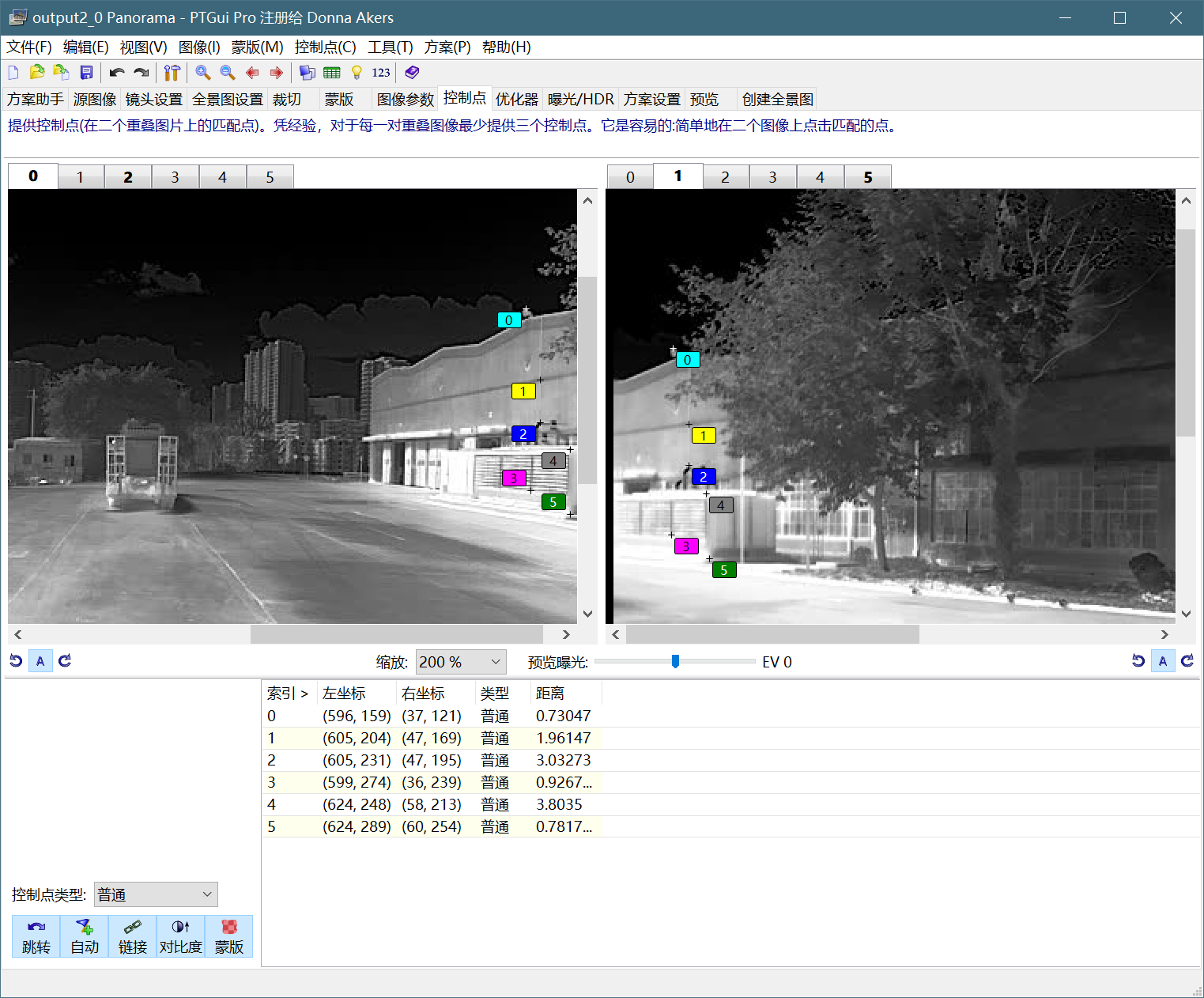
利用PTGui选取每张图与邻近图的特征点，需要尽量选取六张图同一距离上的特征点。选取完成后配置好相应的全景图参数，通过优化器优化，进入全景图编辑器调整全景图效果，导出获得在柱面投影情况下的pto后缀的全景拼接参数。

首先，打开PTGui，点击**加载图像**加载两幅相邻图像，选择图像中的相同点（相同点尽量选择远端景物中的点，选择3~8个点），之后点击**对准图像，**查看图像拼接效果，然后继续添加图像并选点（也可以直接点击**对准图像**，ptgui将自动拼接，若拼接错误再继续手动选点）。

![图形用户界面, 应用程序

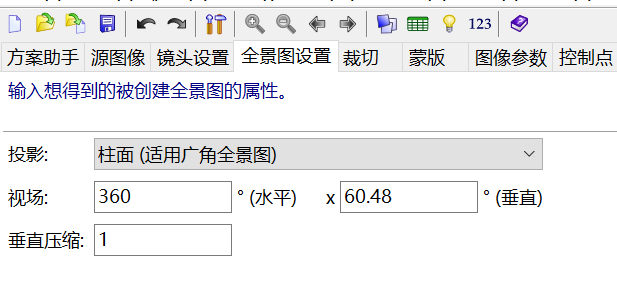
描述已自动生成](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDkRXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAE7AAIAAAAHAAAIVodpAAQAAAABAAAIXpydAAEAAAAGAAAQ1uocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOadjuWggwAAAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzYyAACSkgACAAAAAzYyAADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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然后，手动选点特征点（也可直接点击**对准图像**进行拼接，但可能拼接失败），建议统一选择同一距离，如约二十米处的特征点。

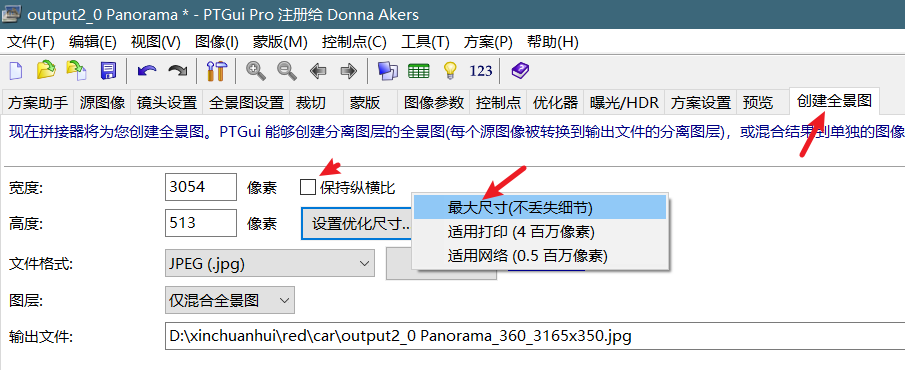


利用PTGui选取邻近红外远景图像之间的相同特征点

特征点全部选取完成后需要点击全景图设置tag，并进行全景图规格设置。



全景图设置



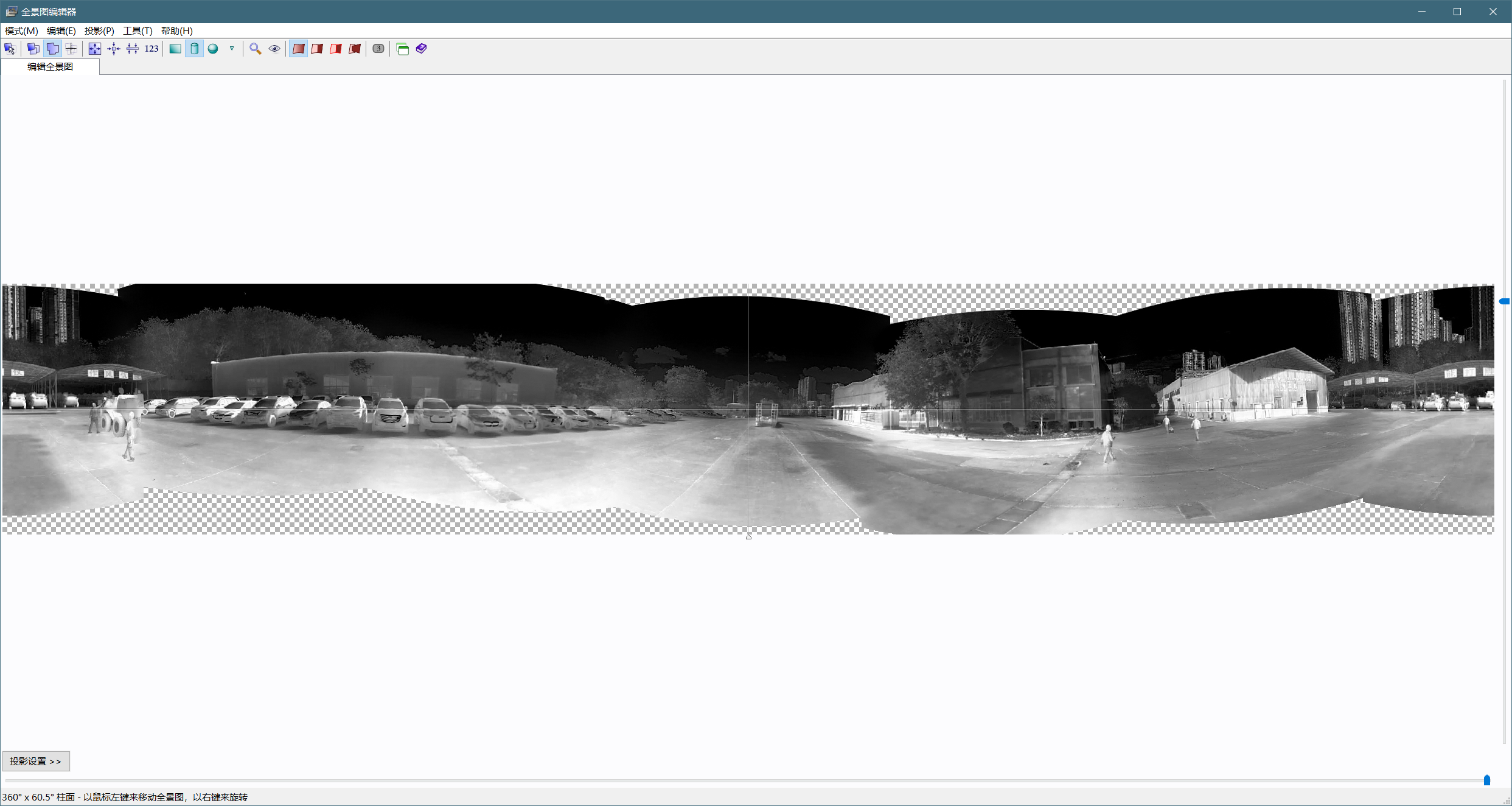
全景图规格设置

最后进入全景图编辑器。



进入全景图编辑器

进入全景图编辑器后，初始画面如下所示，需要进一步进行调节。



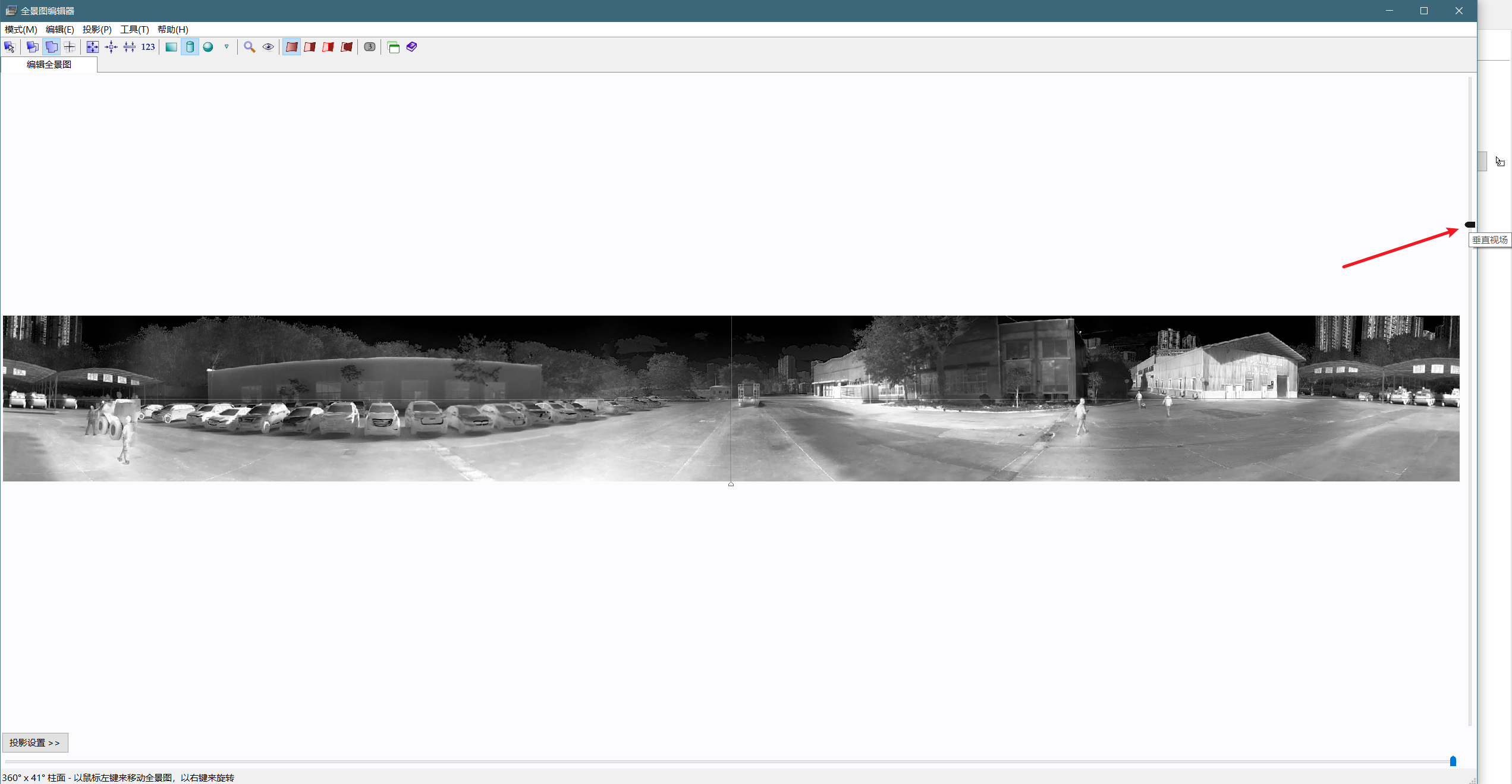
全景图编辑器初始画面

首先点击按钮拉直全景图。



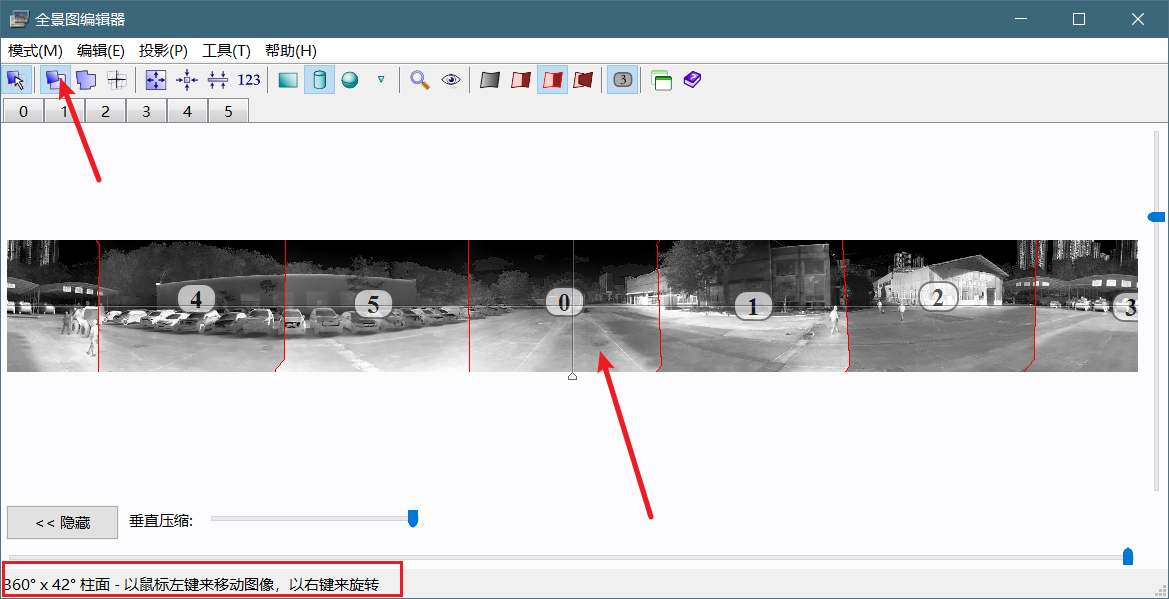
点击按钮拉直全景图

其次滑动右侧按钮减小垂直视场以去除空白区域。



滑动右侧按钮减小垂直视场以去除空白区域

从而得到所需要的完整全景图。若还有微调需求还可启动如下图所示的工具选择，用鼠标对单幅画面进行微调。

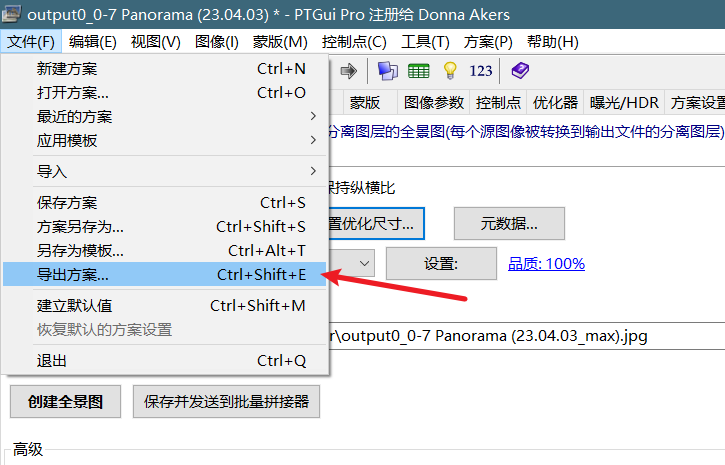


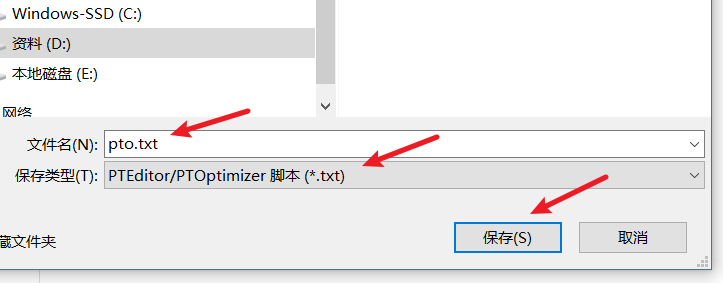
全景图编辑器中单幅画面微调设置

在设置完成后关闭窗口，进入优化器进行优化。



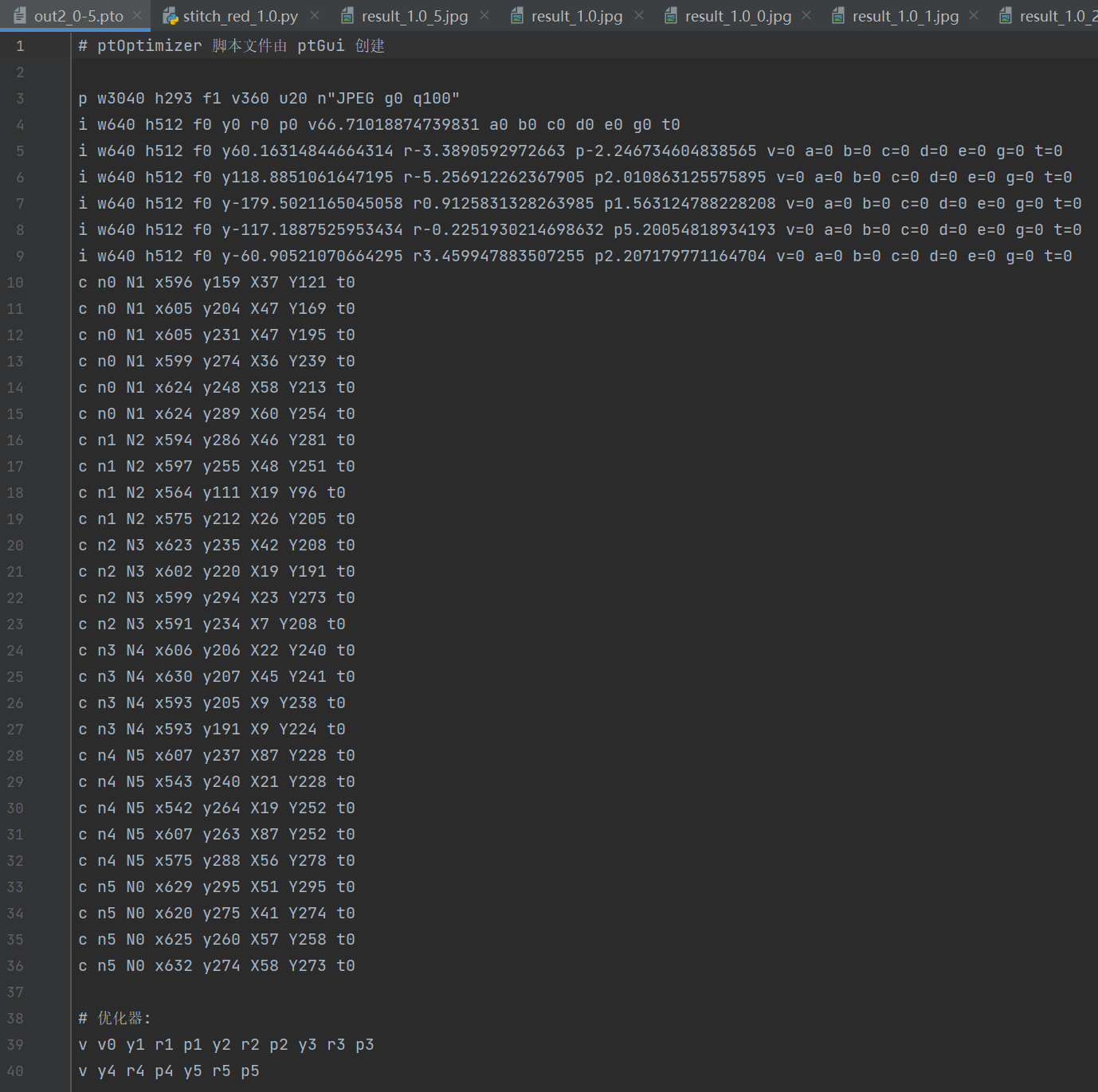
优化完成后，如下进行方案导出，导出为pto参数文件，建议存储至项目路径“./pto/pto.txt”。





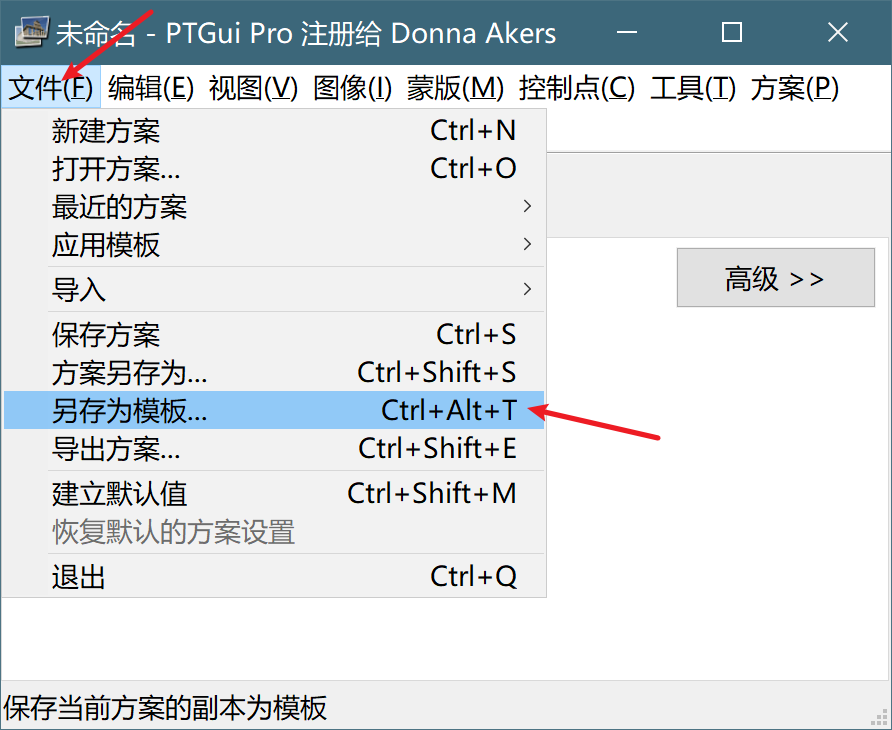
导出为pto参数文件到项目路径 /pto/pto.txt

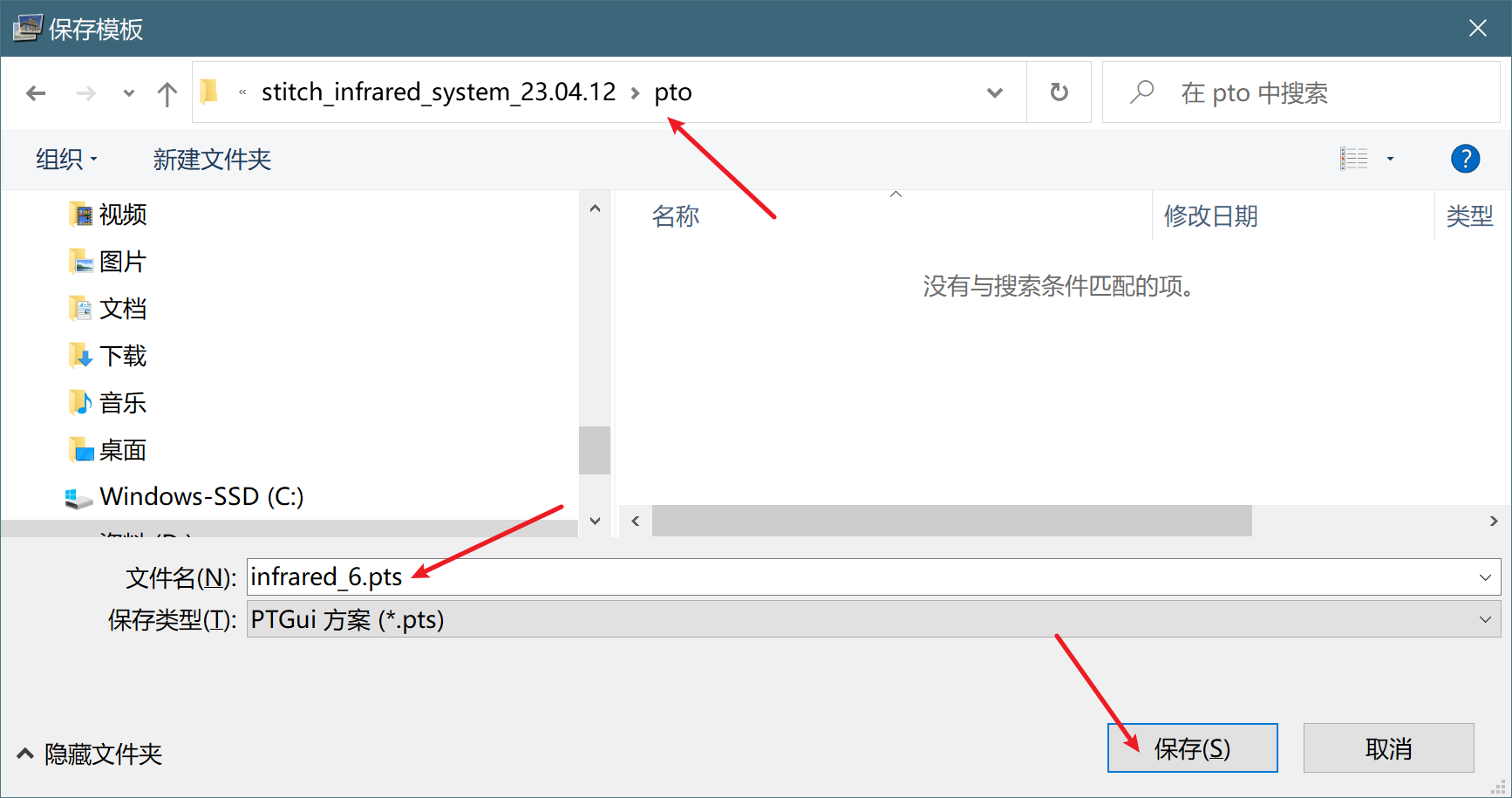
下图为PTGui生成的pto全景图拼接参数展示（只要有对应图片数量的i开头行即可）。



PTGui生成的pto全景图拼接参数(只要有对应图片数量的i开头行即可)

同时将本次方案导出为模板，重命名为infrared\_6.pts，保存在pto目录内，以供后续对其他车辆微调使用。





保存标定模板

**1.2.2 应用模板快速标定**

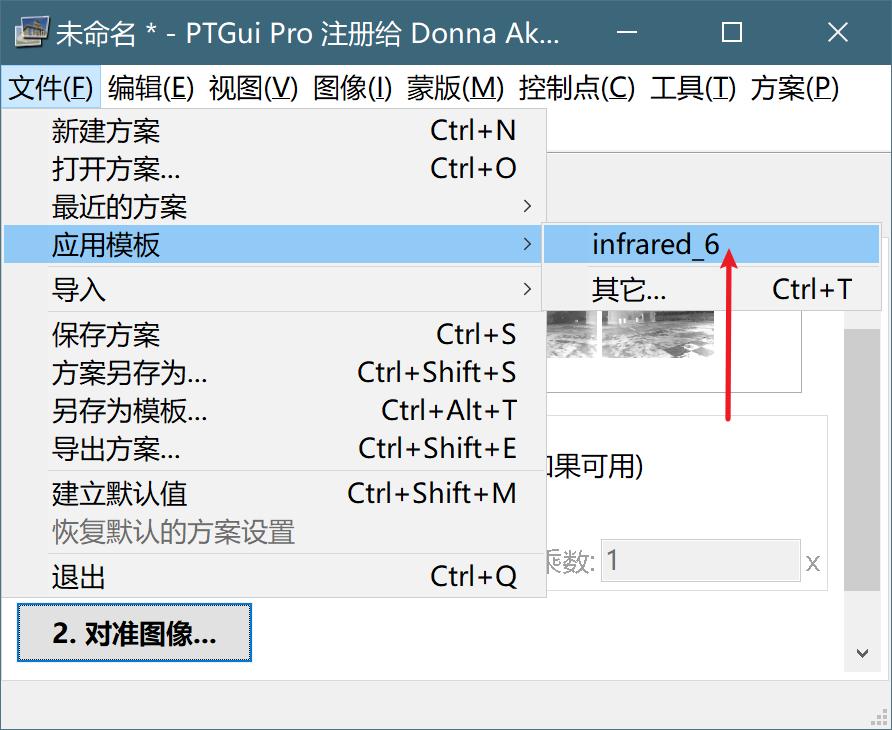
若该型车辆已经进行过一次标定，已有存储的标定方案，即可直接应用标定方案，在已有方案上进行微调，不用重复选择特征点。具体流程如下：

首先加载源图片。

![图形用户界面, 应用程序

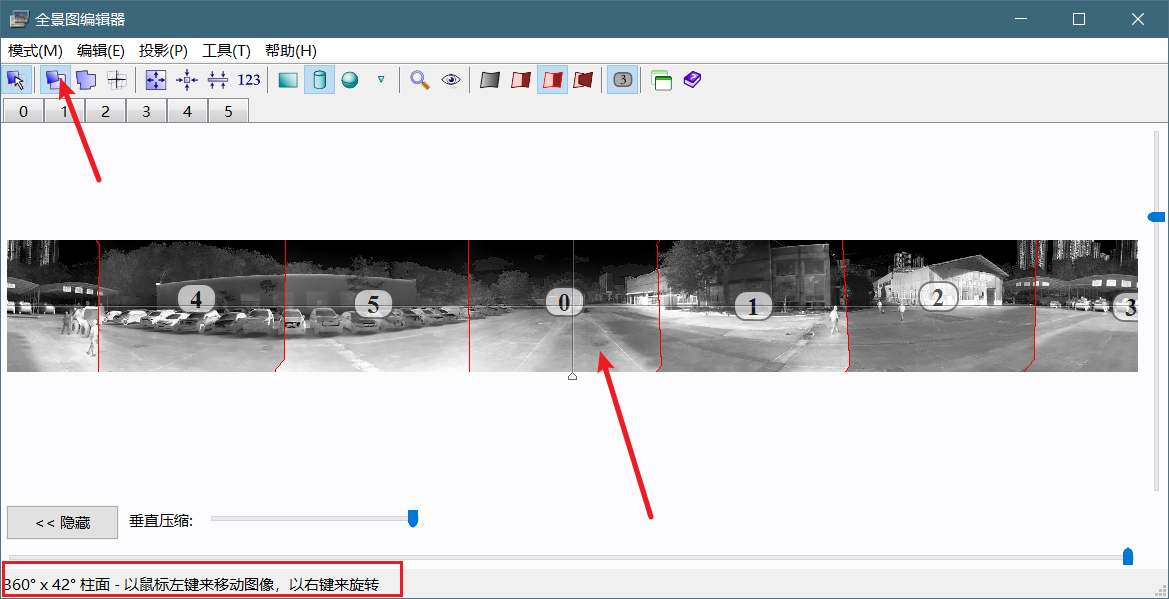
描述已自动生成](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDkRXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAE7AAIAAAAHAAAIVodpAAQAAAABAAAIXpydAAEAAAAGAAAQ1uocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOadjuWggwAAAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzYyAACSkgACAAAAAzYyAADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIyOjEwOjEzIDExOjEwOjI0ADIwMjI6MTA6MTMgMTE6MTA6MjQAAABOZwNYAAD/4QsZaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLwA8P3hwYWNrZXQgYmVnaW49J++7vycgaWQ9J1c1TTBNcENlaGlIenJlU3pOVGN6a2M5ZCc/Pg0KPHg6eG1wbWV0YSB4bWxuczp4PSJhZG9iZTpuczptZXRhLyI+PHJkZjpSREYgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyIvPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6eG1wPSJodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvIj48eG1wOkNyZWF0ZURhdGU+MjAyMi0xMC0xM1QxMToxMDoyNC42MjI8L3htcDpDcmVhdGVEYXRlPjwvcmRmOkRlc2NyaXB0aW9uPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIj48ZGM6Y3JlYXRvcj48cmRmOlNlcSB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6bGk+5p2O5aCDPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMAAgEBAgEBAgICAgICAgIDBQMDAwMDBgQEAwUHBgcHBwYHBwgJCwkICAoIBwcKDQoKCwwMDAwHCQ4PDQwOCwwMDP/bAEMBAgICAwMDBgMDBgwIBwgMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDP/AABEIAvEC3AMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2Rl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9IfTpI5NNubpm82+gg1Wd7TfO8hd4I97v5da37Z3iaT43zf8FFvC1/4s8Sahofgf4caZc2Wm2HiW9trfSbz+xtUnkQpBMvliTZGZoeEnTHmI6V9/337PPgLUPg/H8O7nwT4Qm+H8dqtinhiTRrZtIECEbYRalPJEY7JsxUPw1/Zr+HnwT0y7tfBfgPwX4StdQt0s7iHRdEtbGOeGPzNkLpCib0Te+EPA8x/U1NWN6UoL+vdiv0v8/v0pS5aiqf18Tf62+X3eA6H8ZLT9jX9nn4T+CfAPh/xX8S/iD8RrEyeGdFvvFF3fC48u0jmubu61PUJZntdPgDpk/OQZI44YZHdEPov7Bn7Mutfs0/C7WH8XazYa98QPH/iC78XeLbzTYXg0z+0bvZvhtI3+dLeCOOOGMyfvHEe9/nkNWNS/4Jy/s9654R0vQbz4D/Bm80DQ3nn0vTJ/BOmyWmnST7PPkhhMOyMyeWm/Zjf5aZzgVXf4L6h+yj4etdN/Zz+C/wAE9P0vUrmW71exfVn8E28cxSNI5EjsdIuxO7gEOZBGU8tMF8/J0e09+U/5v6sYRo2pxp/ynA/tGKdM/wCCrv7OOoa1HGug3Hh3xZpWmXE0mI49akTT5I407efJZwX2zHzbI7isv9iD4h+H/C3x7/aQ1S+1/RdL8MeMvjFHovhua81BLeHWtVTRNPt7qC03viaf7Va3CFI/n3284x8le3WPwwuv2mPhHc6D8fPhj8L72C4vRI2gpf8A/CXaPOibHjmc3un2v7wSbvlMB2YBD88aHiz4H6L4e+E2m6H4T+Hfw/1A+CTFd+EtCv4Y9L0jTLuDP2d4XjtZ/sfl7jskggdk7Cso/u1p6f8AgUlI1kru8f60sfnT8eP2ivGml/DLx5NcfFfxl4KtYf2tNP8ADP8AbkWryI+h6Q/9n+ZaoZvMiS1HmSHZInkfOd8eM16J8cfGXi79hn9ob4naT8IvEnjrxha2HwN1vxrf+H/EvibUfFf9g6vaOn9l3KSahNPOn2rN9H5EcmyT7JnZlM122qf8E1fGHif4J6Dp2s3PgubxZq3xrtfiz4xgVppNLMQu98ljau8AeYpapBBvkjj8zY7uE37K+pPhX+zT4F/Zs8J6ppfwt8D+B/h3Hqcn2iSHQfD9vp9pLc7NiSzQ2wjEnQe+O461lThONKz+L/7lGP8A6Vr6r5iTarX+z/8AbuX5aejPgP4lC0+Dfg/9kHxd4b+OXxS1rXfi34/8PJqkl78Qb7ULLxrbXMMlxct9jeR7eCDdj93ZRwQDzER0I8tB+nwKhM+1fB/hT/gmlrHib47+Dda1j4V/s7fB/wAP+EfEC+L9Wufh0slxq/jnVLZZBY+eTp1l9lt45J553Qvdu7+Wm8De7/d+Qy/hitIuKUm/tScvlaP+RlyyVT/t2P36k4OaKB0orQ2DvVXUJZILGR4o/OmRDtX+81WqCMis5e9ED8pR8Qte1n/gk9eftSf8LW+ISfHtbeTUIbKHxZqKaJba8l15Efhn/hH/AD/sL/vAlj5MkD3Tu5ff55EleuxftB694d+IX7d6+IPFmoaGPB+g6Rrek211q8kcfhyCfw1kyQFnxbobuGcl02ZkjL96+rT+x98JT8cP+Fmf8Kv+Hn/CxvN87/hKf+Ebs/7b3+X5PmfbPL8/Pl/Jnf8Ac46cVN8S/wBk/wCGPxl8aaf4k8X/AA18A+LvEWjwmCw1PWvD9pfXlinJ2RzTRu6KSzcIccmiouaEox+1/wCSmnNadz4H+G3wm0/45ftC/sIeIPFniD4hXOu+JPg7qN7d3MXj3W7GS8uYLTQZN/7m6T53Mkjzgf8AHxj9/wCZsjpfAsFl8bbH9s7XPG/x4+KWhN8J/HWtQ6YdM8e3+jw+BbRNOt547jyLeaMTx+Yjukd351v+4dI403z+Z97+Mv2ZPh38RPCfh7Qdf+H/AIJ1zQ/B89vPoGm6joVrdWeiSQp5cLWsTpsgaOPKIYwNgPFeI/AH/gmb4S034jfErxR8TvAnwx8davrvxHvvGXha+v8ARYNRu9Ctp47MIFkmg3wziS2LnyyRkJ85I4dS06r5Pd92S/8AApRf3nPTThTpwl73Lb/0lnmf7Dv7QvxE8bftf+A1+KGr6jpWoeKP2bdC8UX+i3Fz9nsxqiahKNRuvs2dkcn7+AOQg2JJGn8FeCeGNCh/aw/ZN/Yt8V+LvGHjzXrrXPjHqumjV7Xx5q9rJeWz/wDCReQ6zW1zH8+yGBI5kO9I8xo4jd0P6e/GL9mr4d/tBtpX/Cf+AvBPjj+w5jcaYNf0K21P+zpDyXg85H8t/lXJTB+UU3Wf2Zvhz4s+E8ngHVPh74J1DwJLN5z+HbvQrWbSHfzvPLm1dPK3edmTO3753deadT3nFpfDLm/G/wDwCoynaUf7vL+Fv+CfP/7UfxL8Z/tBan4p/Zx+Cljs1Ky0yDSfG3jrXZ3n0/wZZ30H+qjRyZ9R1V7Q+Yif6tPMieab5xHJ9L/B/wCFum/BH4TeGfBei+f/AGP4T0i10ay8598nkW8McMe9+77EHPevNvGn/BOL9nv4meI21jxN8B/g34g1aZFhkvdS8E6beXDpGiRxoXeDfhI0RE9EQD0qHX2+L3wmvLfw38KfhD8FW8A6FbQWmipeePr3w89vCkSDyhY22hXUEMcZGxAkzDYAfkyUD6/4hrb/AAnnP/BSnwVpOkap8G9bttK0y01vWfi94Sg1C/is0W7v0gmn8hZZAN8ix+ZJsDk7N7kYya9Y/ao+Lul6L8IviZoOmeI7Gx8daX4J1DXYdOt9RSLVrS38qZI71EV/NRPOUoJgMB0xnNduPCNt8RfDegnxj4e8P3GqadNbaqLfI1K30zUEHElvNNCjlo23bJvLjfvhM4rzT9tH4I+Kfif4F1y3+HPh34ct4y8X6LdeEb/xRr9w9rd6Jpc6PueDybWd7ry5G3i1eSCN3GTInWuWpQbpVKcftX/9JS/NFU3F1VUl/d/Nv8mfGvwZ8U6t+0D+0p+zD4H8X/Ff4j6fpHjT9nO31y90zTfFt7pNx4q1RJrCTzXuoZI7r7QqGSR3hkSeREfe/l+ZHJ7b/wAE+vip4wtdL+LXh2x1TX/iN4P8F/EbUtC8Ka5rWqzX95JYRwWjy2zXjAyXf2a+lvbbzpXkk/0fY0jlM1ozf8EufD+tftIeDbrxN4d8DeNPhL4O+FMfgGPRPENgmoPPdQ3trNBMbWaF4Ngjg5ffv3kfJ3H1B4P+GGhfD3wnpug+HdJ03w5oOj26WlhpmmQrZWllCvCxxRR4RFA6BRivTo4inRtOdPnXvK3/AG+3F6W+z+Z51aliJU3Cm7NONn39yPN+J1Vcb+0D/wAkj1b6wf8Ao+Oiiuc9A+aaKKKAPqL4Vf8AJP8AQv8AryT+VdNRRQAUUUUAFFFFADP4qXv+NFFCAB1FB+5RRU9gjuA/wobrRRVdUAL978KG60UUMA/ipe/40UVICDr+NOoop9gCiiimAUUUUAA60HpRRQA2OhutFFTHcnoKOv50idKKKZS2HHpQOlFFMAHWiiigBq9aU/eFFFKO4B/DSdx+NFFKIDqKKKoAooooAKa33xRRQAfxUh6tRRU9fmHQWlPX8qKKP6/ESEX75p1FFEhjW60o+8aKKqWwCJ1/CmnrRRU9QHL1NHdqKKOgDqKKKoAooooAT+P8KWiipAafu0ifeoooAX+KnDpRRR1AT+D8KUdKKKXQApvc/hRRTYA3Q0H7tFFMBP8AClHT8KKKnp8gHUUUVYBRRRQAUDrRRQA3v+VCdKKKXX+vIOgL1FIn3qKKYDz1po+7RRU9gQUo+8aKKcRDR900h60UUR2Gf//Z)

其次选择应用模板，选择想要使用的模板。



随后进入全景图编辑器，对每幅画面按需进行微调并导出pto.txt参数文件。



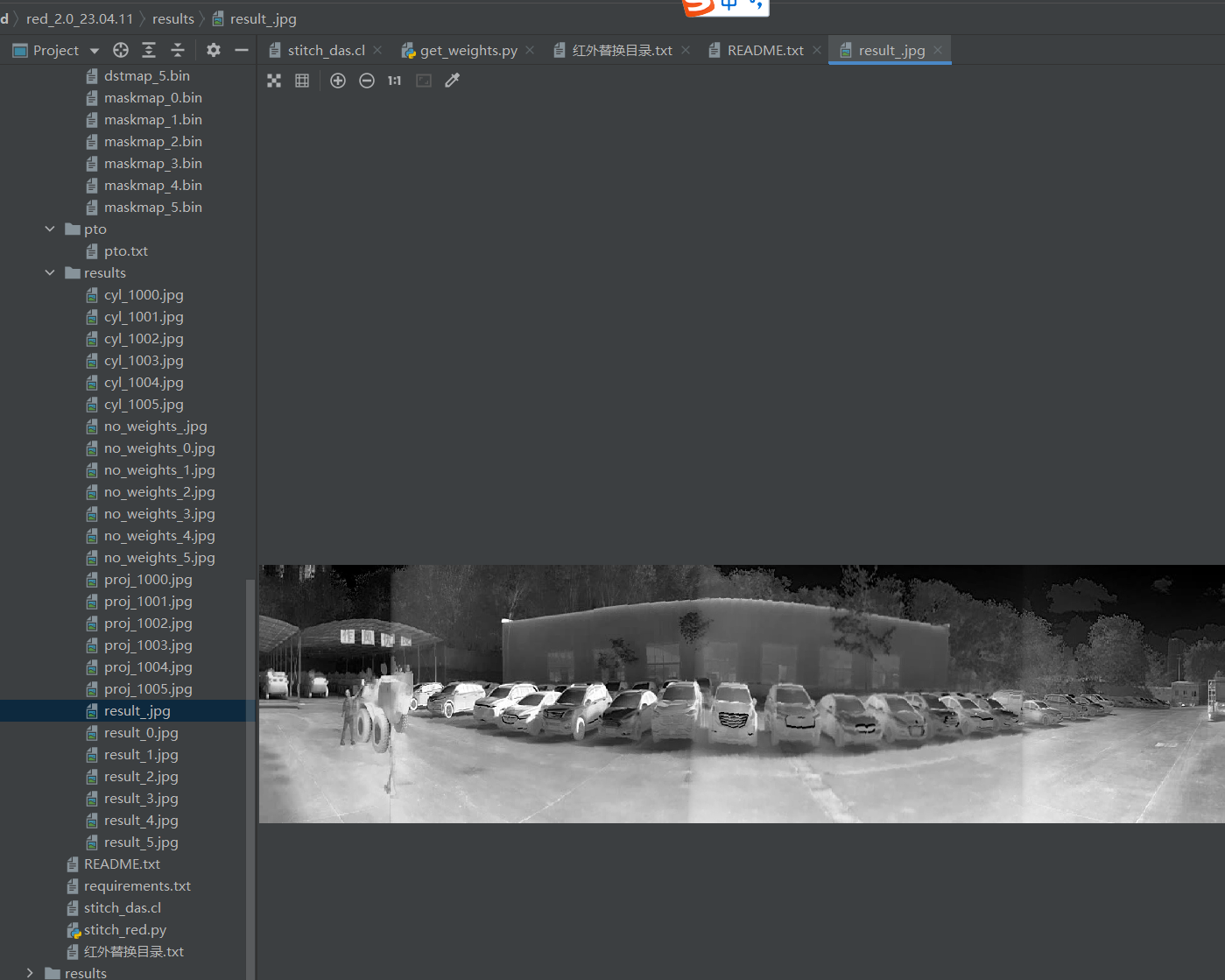


全景图编辑器中单幅画面微调设置

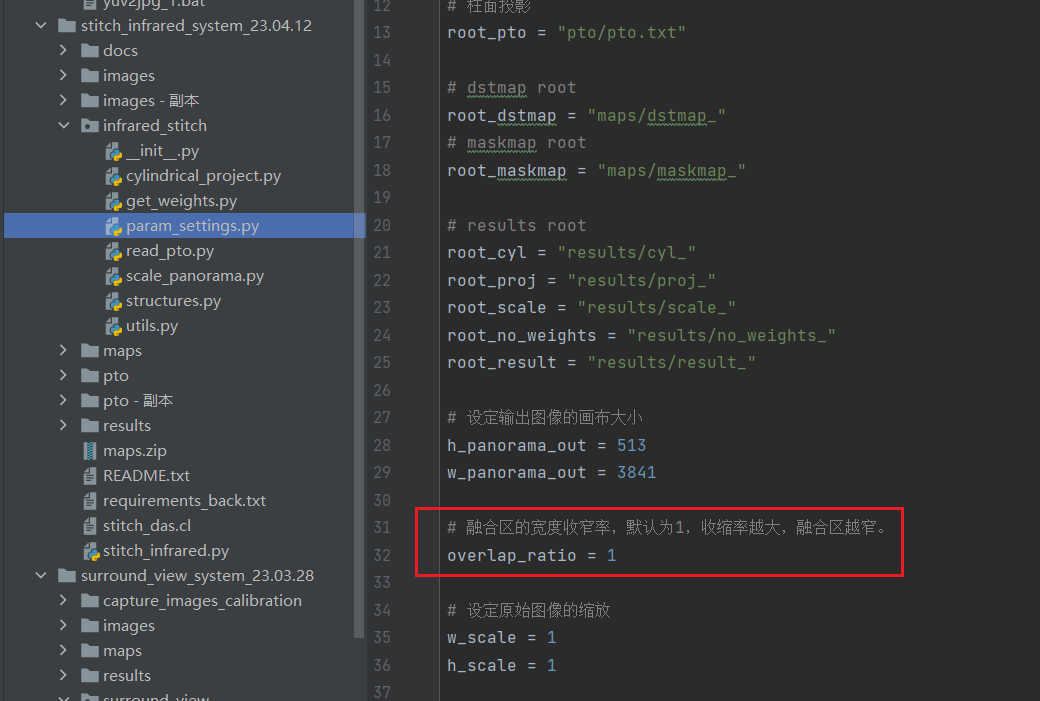
即可完成微调。

（1）板端文件转换

运行stitch\_infrared.py文件，约1分钟左右生成结果，可在results/result\_.jpg重查看拼接效果。



可以通过\*/Panorama\_System/stitch\_infrared\_system/infrared\_stitch/param\_settings.py中的相关参数调整工程中的一些内容，比如融合区域羽化宽度的收缩率。



（2）更新参数文件

使用本项目maps\下的dstmap\_0-5.bin、maskmap\_0-5.bin覆盖原参数。

**1.3 代码分析**

**1.3.1 框架总览**

**stitch\_infrared.py**

stitch()

create\_imgs\_models()

**param\_settings.py**

**structures.py**

class Info：

class Img：

**read\_pto.py**

read\_pto()

read\_pto\_info()

read\_pto\_euler\_angle ()

**cylindrical\_project.py**

cylindrical\_project()

cylindrical\_project\_point()

generate\_cylindrical\_imgs()

**scale\_panorama.py**

scale\_maps ()

map\_trans\_by\_stack ()

map\_stack ()

trans\_point\_dst2src ()

**get\_weights.py**

generate\_white\_img ()

get\_x\_min\_max ()

get\_weight ()

get\_xs\_min\_max ()

get\_weights\_ ()

generate\_weights ()

generate\_weights\_colorful\_balance ()

**utils.py**

project\_imgs2panorama ()

get\_dx ()

get\_dy ()

display ()

read\_map ()

load\_maps ()

save\_maps ()

generate\_panorama\_result ()

generate\_panorama\_result\_without\_weights ()

**1.3.2 函数解释**

**A) stitch\_infrared.py**

|  |  |  |
| --- | --- | --- |
| **stitch()** | **功能** | 主函数 |
| **create\_imgs\_models()** | **功能** | 创建图片对象 |
| **参数** | info：基本公有信息 |
| imgs\_euler\_angles：所有图片欧式角信息 |
| dx\_0：横向位移初始偏差 |
| dy\_0：纵向位移初始偏差 |
| root\_imgs\_src：原始图像路径 |
| **返回** | imgs\_models: 所有图像信息类列表 |

1. **param\_settings.py**

配置参数设置，设定各文件路径，以及输出全景图大小，融合区羽化宽度。

1. **structures.py**

设定结构体，保存项目运行的基本信息，以及每个画面的基本信息。

|  |  |  |
| --- | --- | --- |
| **class Info** | **功能** | 保存图片处理需要的统一基本参数信息 |
| **参数** | w, h：原始图像宽高 |
| vision：原始图像视场角 |
| imgs\_num：原始图像数量 |
| w\_panorama, h\_panorama：PTGui设定的全景图大小（即按原始图尺寸，保留最多信息的全景图尺寸） |
| **返回** | Info: 处理时所需的基本信息整合 |
| **class Img** | **功能** | 保存每张图的参数信息 |
| **参数** | img\_path：图片路径 |
| euler\_angles：图片欧式角 |
| info：基本信息类 |
| dx\_0，dy\_0：初始偏移值 |
| **返回** | Img: 每张图的参数信息 |

1. **read\_pto.py**

读取PTGui生成的pto参数。

|  |  |  |
| --- | --- | --- |
| **read\_pto()** | **功能** | 读取pto参数 |
| **参数** | path：pto路径 |
| **返回** | info：拼接处理基本信息 |
| imgs\_euler\_angles：每个画面的欧式角信息 |
| **read\_pto\_info()** | **功能** | 读取拼接基本 |
| **参数** | lines：pto内容 |
| **返回** | info：拼接基本信息 |
| **read\_pto\_euler**  **\_angle ()** | **功能** | 读取欧式角信息 |
| **参数** | lines：pto内容 |
| **返回** | angles：欧式角信息 |

1. **cylindrical\_project.py**

柱面投影。

|  |  |  |
| --- | --- | --- |
| **cylindrical\_project()** | **功能** | 柱面投影 |
| **参数** | info：基本公有信息 |
| reverse\_flag：取1则做柱面反投影，0则柱面投影。默认0。目前不建议做柱面反投影。 |
| no\_cylind\_flag：取1则不做柱面投影，取0则做柱面投影。默认0。 |
| **返回** | map\_cyl: 所有图像柱面投影的LUT。 |
| **cylindrical\_project\_point()** | **功能** | 对坐标做柱面投影转换。 |
| **参数** | x, y：原始坐标。 |
| info：基本公有信息。 |
| reverse\_flag：取1则做柱面反投影，0则柱面投影。默认0。目前不建议做柱面反投影。 |
| **返回** | point\_x, point\_y: 柱面投影后的坐标。 |
| **generate\_cylindrical\_imgs()** | **功能** | 根据LUT生成每张图的柱面投影图。 |
| **参数** | info：基本公有信息。 |
| imgs\_models: 所有图像信息类列表。 |
| map\_cyl：柱面投影LUT。 |
| root\_cyl：柱面投影结果图保存路径。 |
| **返回** | 保存图片至本地。 |

1. **scale\_panorama.py**

放缩LUT输出规格。

|  |  |  |
| --- | --- | --- |
| **scale\_maps()** | **功能** | 扩充原较小的LUT至规格更大的LUT。 |
| **参数** | info：拼接基本信息。 |
| maps\_：原所有LUT。 |
| **返回** | maps\_new: 扩充后的所有LUT。 |
| **map\_trans\_by\_stack()** | **功能** | 扩充原较小的LUT至规格更大的LUT。 |
| **参数** | map\_：原LUT。 |
| list\_of\_src：原全景图坐标对应的输出坐标列表。 |
| **返回** | map\_new: 扩充后的LUT。 |
| **map\_stack()** | **功能** | 将较小的原始规格转换到较大的输出规格。 |
| **参数** | h\_src, w\_src：原始规格。 |
| h\_dst, w\_dst：输出规格。 |
| **返回** | list\_of\_src: 原始坐标数量的列表，每个元素为每个原始坐标对应的输出坐标列表。 |
| **trans\_point\_dst2src()** | **功能** | 按输出规格到原始规格将输出坐标转换到最近邻原始坐标。 |
| **参数** | u\_dst, v\_dst：输出坐标。 |
| h\_src, w\_src：原始规格。 |
| h\_dst, w\_dst：输出规格。 |
| **返回** | u\_src, v\_src: 原始坐标。 |

1. **get\_weights.py**

生成权重参数。

|  |  |  |
| --- | --- | --- |
| **generate\_white\_img()** | **功能** | 创建每个画面投影到全景图时对应的纯白遮罩。 |
| **参数** | map\_：该图的LUT。 |
| h, w：该图的原始高宽。 |
| **返回** | img: 画面投影到全景图时对应的纯白遮罩。 |
| **get\_x\_min\_max()** | **功能** | 扩大边界范围，以避免坐标取整时造成的坐标丢失。 |
| **get\_weight()** | **功能** | 获取该画面的权重。 |
| **参数** | map\_：该图的LUT。 |
| weights：初始权重参数，默认全为1。 |
| xs\_min\_left, xs\_max\_left：画面左侧重叠区域在输出全景图中的横向左右坐标。 |
| xs\_min\_right, xs\_max\_right：画面右侧重叠区域在输出全景图中的横向左右坐标。 |
| w：全景图宽度。 |
| ratio：重叠区域羽化宽度收缩率。默认1。 |
| **返回** | weights: 画面的权重参数。 |
| **get\_xs\_min\_max()** | **功能** | 获取两图的重叠区域横向坐标范围。 |
| **参数** | img\_a，img\_b：两图。 |
| w, h：全景图宽高。 |
| **返回** | xs\_min, xs\_max: 两图的重叠区域横向坐标范围。 |
| **get\_weights\_()** | **功能** | 获取画面与左右两画面的融合的权重参数。 |
| **参数** | map1：当前画面左侧画面的LUT。 |
| map2：当前画面的LUT。 |
| map3：当前画面右侧的LUT。 |
| h\_out, w\_out：全景图的高宽。 |
| ratio：重叠区域羽化宽度收缩率。 |
| **返回** | weights: 画面与左右两画面的融合的权重参数。 |
| **generate\_weights()** | **功能** | 获取所有画面与左右两画面的融合的权重参数。 |
| **参数** | info：拼接信息。 |
| map\_far\_new：所有LUT。 |
| ratio：重叠区域羽化宽度收缩率。 |
| **返回** | weights: 所有画面与左右两画面的融合的权重参数。 |
| **generate\_weights\_colorful\_balance()** | **功能** | 获取所有画面亮度平衡后叠加的权重参数。 |
| **参数** | info：拼接信息。 |
| imgs\_models：画面信息。 |
| weights：原所有权重参数。 |
| **返回** | weights: 所有画面亮度平衡后叠加的权重参数。 |

1. **utils.py**

工具函数文件，包括文件的保存读取，全景图的生成等。

|  |  |  |
| --- | --- | --- |
| **project\_imgs2panorama()** | **功能** | 将原始图像投影到全景图中。  整合柱面投影LUT和相似变换LUT，建立原始图像到全景图的LUT。 |
| **参数** | info：基本公有信息。 |
| imgs\_models: 所有图像信息类列表。 |
| map\_cyl：柱面投影LUT。 |
| root\_proj：投影画面保存地址。 |
| test\_flag：是否需要生成测试画面，1为是，默认为0。 |
| **返回** | map\_far: 整合柱面投影LUT和相似变换LUT后的原始图像到全景图的LUT。 |
| **get\_dx()** | **功能** | 根据偏航角yaw角度获得画面横向位移距离。 |
| **参数** | f：焦距。 |
| yaw：偏航角。 |
| **返回** | dx: 横向位移距离。 |
| **get\_dy()** | **功能** | 根据俯仰角pitch角度获得画面纵向位移距离。 |
| **参数** | f：焦距。 |
| pitch：俯仰角。 |
| **返回** | dy: 纵向位移距离。 |
| **display()** | **功能** | 保存图片，或者显示测试图。 |
| **read\_map()** | **功能** | 读取二进制文件，以特定数据格式读出并返回。 |
| **load\_maps()** | **功能** | 读取已有的LUT文件。 |
| **save\_maps()** | **功能** | 保存LUT。 |
| **generate\_panorama\_result()** | **功能** | 测试生成带权重的全景图。 |
| **参数** | info：基本公有信息。 |
| imgs\_models: 所有图像信息类列表。 |
| map\_far\_new: 所有图的LUT。 |
| weights: 权重参数。 |
| root\_result: 全景图保存路径。 |
| **返回** | img\_panorama\_out: 全景图。 |
| **generate\_panorama\_result\_without\_weights()** | **功能** | 测试生成不带权重的全景图。 |
| **参数** | info：基本公有信息。 |
| imgs\_models: 所有图像信息类列表。 |
| map\_far\_new: 所有图的LUT。 |
| root\_no\_weights: 全景图保存路径。 |
| **返回** | img\_panorama\_out: 不带权重的全景图。 |