# 测试PCRProject工厂版的程序

步骤1：像往常一样准备Trim.dat文件和 dataposition.ini文件。

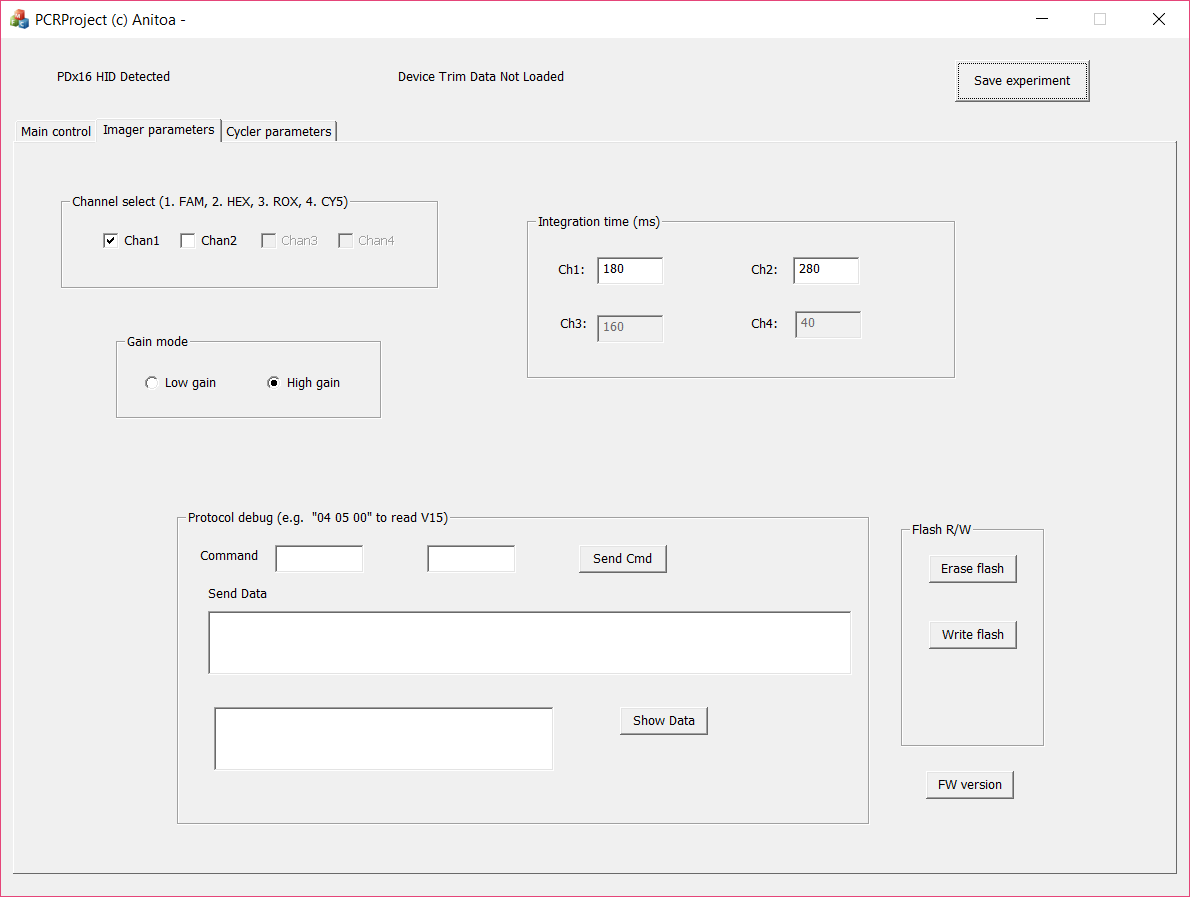
步骤2：在数据位置文件中，添加通道数，系统型号和序列号的规范：

[PLATE CONFIG]  
NWELLS=4  
NCHANNELS=2  
[SYSTEM ID]  
MODEL=T  
SN1=10  
SN2=20

在这个例子中，通道数是2. 型号字母是“T”，序列号1和2是10和20. 注意序列号只能是1到255. 有2个序列号和一个型号字母给我们52 \* 255 \* 255组合。

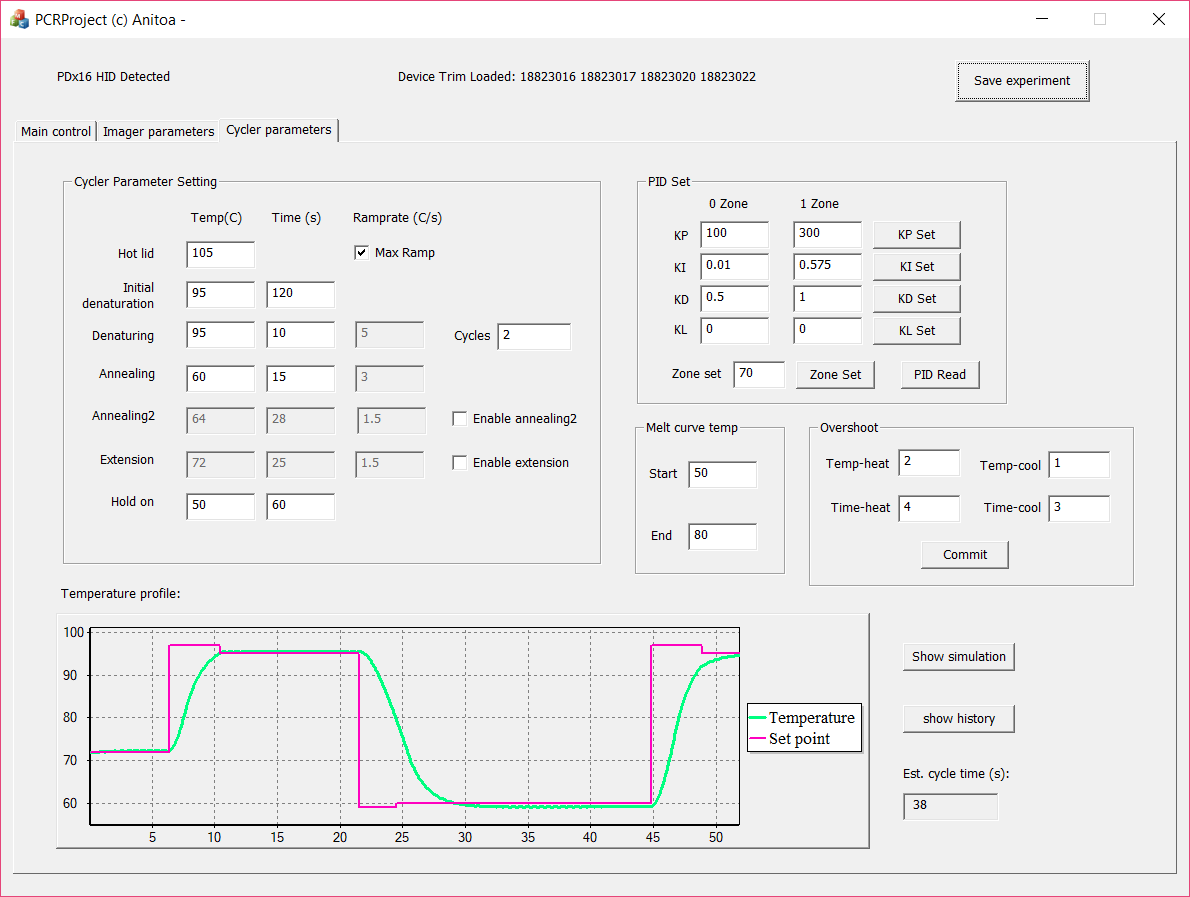
步骤3：运行程序。通过运行一些图像捕获来检查trim设置是否正确, 并且检查数据位置是否正确。

步骤4：擦除闪存，然后将trim数据和数据位置数据写入闪存。这是通过转到“Imager parameter” 并首先单击“擦除闪烁-Erase flash”按钮，然后单击“写入闪存 – Write flash”按钮来完成的。等待成功弹出框。



步骤5：在一个空的文件夹再启动这个程序。如果程序找不到trim文件， 会自动读取闪存数据来找到trim数据。 再次执行图像捕获以验证trim设置和数据位置设置是否仍然正确。

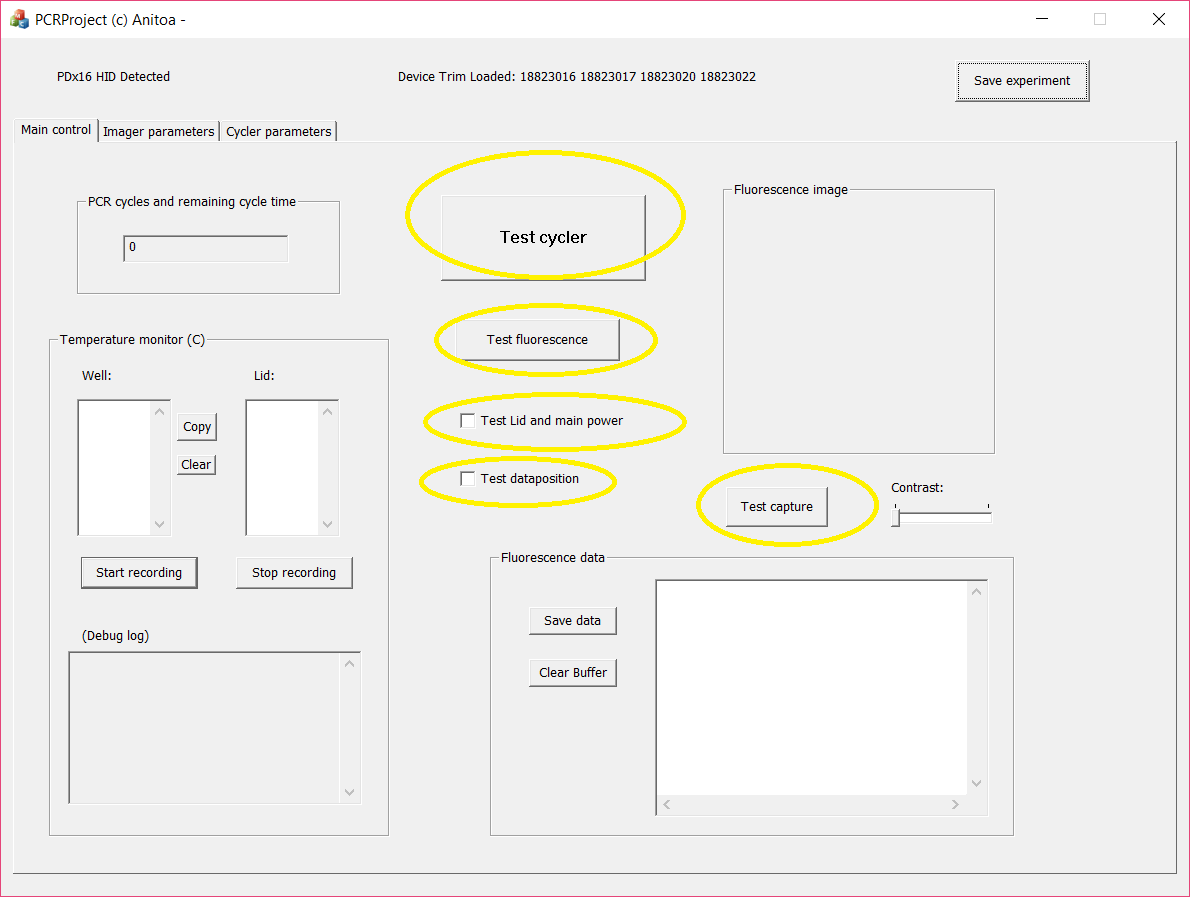
步骤6：测试热循环仪。确保温度设置如下所示。程序在加载config.json文件时，将自动加载此设置。因此，请确保不要更改或丢失此程序附带的configure.json文件。



然后转到主控制窗口并为“Test cycler”按钮计时。该程序将运行循环仪并在完成后停止。将弹出一个对话框，显示测试是否成功。

步骤7：测试光学系统。将试管放入仪器中，确保试管中的混合物至少包含FAM信号。按“测试荧光”按钮。系统将运行测试以测试光学系统，并生成指示测试是否成功的消息。

请参阅下面的测试按钮的位置。



Step 1: Prepare the trim.dat file and dataposition.ini file as we usually do.

Step 2: In data position file, add specification for number of channels, system model letter and serial numbers:

[PLATE CONFIG]  
NWELLS=4  
NCHANNELS=2  
[SYSTEM ID]  
MODEL=T  
SN1=10  
SN2=20

In this example, the number of channels is 2. Model letter is "T" and serial numbers 1 and 2 is 10 and 20. Note serial numbers can be only 1 to 255. Having 2 serial numbers and a model letter gives us 52 \* 255 \* 255 combinations.

Step 3: Run the program. check if trim setting is correct and data position is correct by running some image captures.

Step 4: Erase flash and then write trim data and data position data to flash. This is done by going to "Imager parameter window" and click "Erase flash" button first, then "Write flash" button. Wait for success pop up box.

Step 5: Read from flash by pressing "Read flash" button. Perform image captures again to verify that trim setting and data position settings are still correct.

Step 6: Test Thermal cycler. Make sure the temperature settings are as shown below. This setting will be automatically loaded when the config.json file is loaded. So please make sure do not change or lose the config.json file that comes with this program.

Then go to the main control window and clock the “Test cycler” button. The program will run the cycler and stop when finished. A dialog box will pop up showing whether the test is successful.

Step 7: Test the optical system. Place tubes into the instrument and make sure the mixture in the tubes contain at least FAM signal。 Press the button “Test fluorescence”. The system will run a test to test the optical system, and generate a message indicating whether test is successful.  
See below for the location of the test buttons.