Turn on FIU Data Acquisition Software

Please note that this is not the final version of the software for July's Data Collection.

From the Citrix Network use VNC to log into the computer called mast_rp-pd-pc.mast.ccfe.ac.uk If you are following this procedure then I will have sent you the password. On the Desktop select the LabVIEW 2012 icon and open the program.



Figure 1: Desktop Background.

Once the main LabVIEW menu, or splashscreen, is open select the file called "Noise_testing_DAQ.lvproj" to open.



Figure 2: LabVIEW main menu.



Figure 3: Project view with unexpanded folder.

Once the project is open, expand the "Using DAQmx" file by clicking plus sign to left of folder.



Figure 4: Expanded folder.

Open the file "text_nograph_continuous_DAQ.vi" and you should see the program's front panel.

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	▾ ±━▾ •▫▫▾ ▾ ◙♥▾	• Search	
File and Notes	Trigger		
Source/Destination HWS File	Trigger Selection	Specific Parameters - Not all parameters apply to all trigger types.	After Next Trigger
C:\Documents and Settings\ & Administrator\My Documents\Data\ Ramona_data\MAST	Trigger Type Digital	Trigger Level	
filename root noise	Trigger Source PFI 1	Hysteresis	STOP
Notes (type# beginning of each line)	Common Parameters	Window Low Level () -0.10	
# Ramona Thursday 03/21/2013 #	Current Trigger Delay (s) $\frac{1}{5}$ 0.0000	Window High Level 🗧 0.10	
	Ref Position (%)		
	Acquisition Start Time (s) 0		
Channel	Wait for Next 7 200	Trigger Slope Window Mode Positive – É Entering – É	
Channel Name Channel 0			
Input Iimpedance 🗍 50	Auto Trigger	ed trigger modifier	
Horizontal	Vertical	error out	
Min. Sample Rate (Hz) () 60.00M	Vertical Dance (II)	status 🖉 code	
Actual Sample Rate (Hz) 10.00M	vertical Range (V) 56.00	source	
Record for Time (s) $\frac{x}{\tau}$ 0.5	Vertical Offset		
Actual Record Length (#) 1000	Vertical Coupling		

Figure 5: Program front panel.

Default values should be set correctly, but just in case please check these:

- there is the MAST folder selected for the source destination
- specified Channel for which to record data (Default Channel 0)
- verify 50 Ohm "Input Impedance" for Channel
- make sure "Record for Time" is at least 0.5 seconds
- verify 60.00M "Min. Sample Rate"
- verify "Trigger Type" is Digital
- verify "Trigger Source" is PFI 1

To run the program, press the white arrow in the top left-hand corner of the program front panel window. While it is running, the white arrow will turn black.

To stop the program, press the STOP button and leave the program running. The program will automatically stop after the maximum amount of time to wait for the trigger has passed.

If you need to select the folder for the file source destination, then select the MAST folder on the Desktop and click "Current Folder."



Figure 6: Setting directory for source destination.