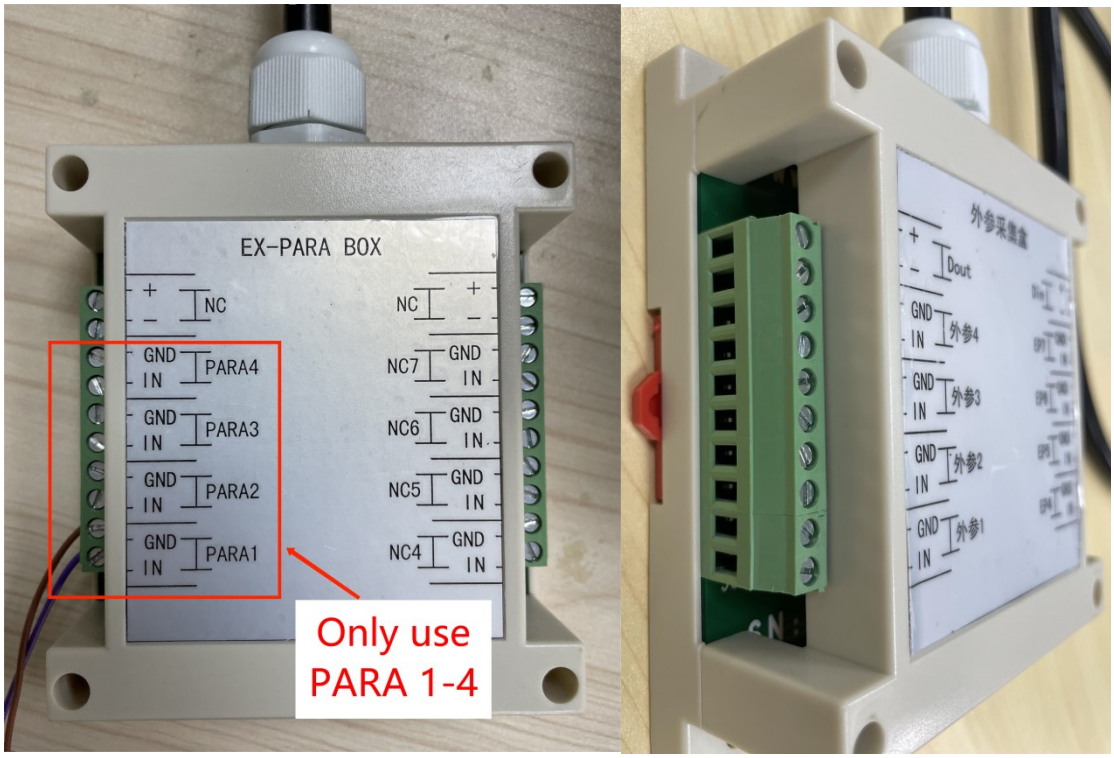
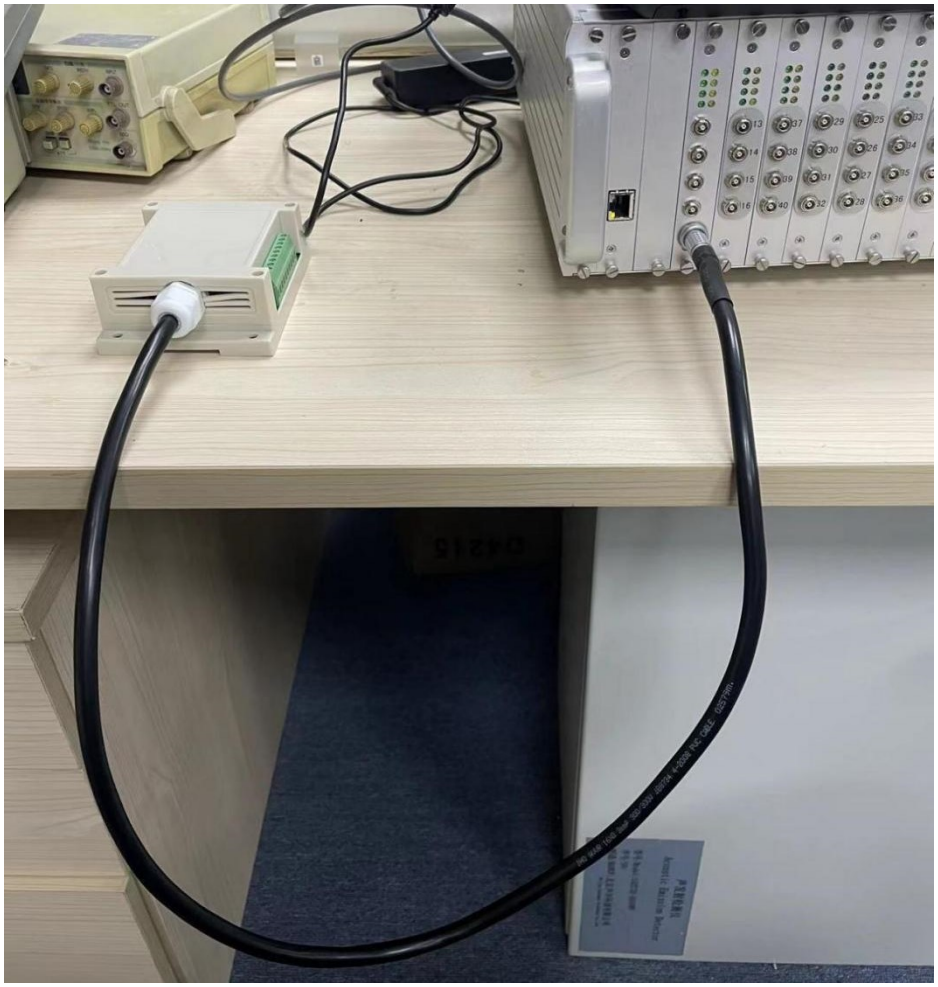
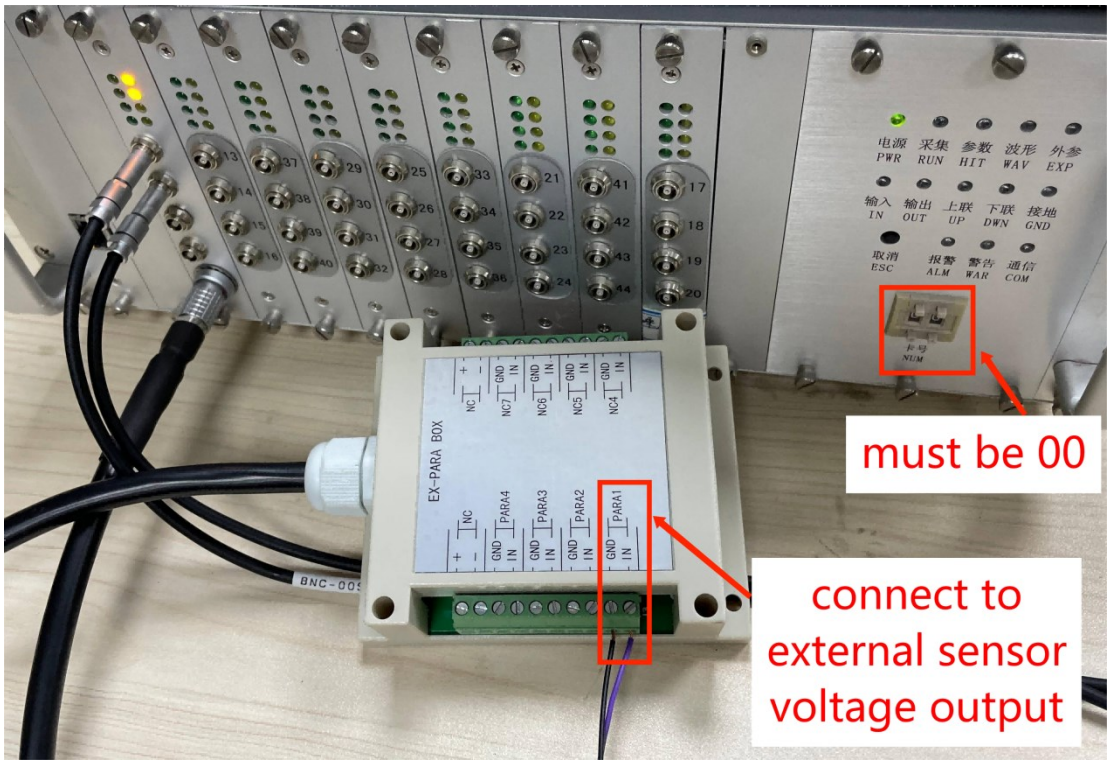
External Parameter Card Setup Instruction

1) Connect the external sensor analog voltage output to the EXT_PARA box. Please note the EX_PARA BOX input voltage range is **+/-10V**. Please DO NOT input high voltage or high current to the EX_PARA box to avoid board damage. Although there are 8 external channels indicated on the box label, only the first 4 channels are enabled. So please make sure only use PARA 1to 4 channels. “IN” is connected to the positive voltage and “GND” refers to Ground.

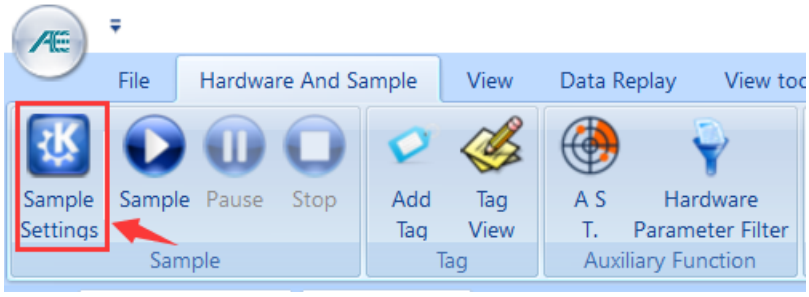


2) Insert the EX_PARA Box into the acquisition card’s External card socket of the U3H chassis. The AE acquisition card with the EX_PARA BOX must be the first AE card in the chassis and the chassis “NUM” must be “00”. It should have been all setup well before delivery. Double check these hardware setups just in case it might be accidentally bumped during delivery or unpacking.

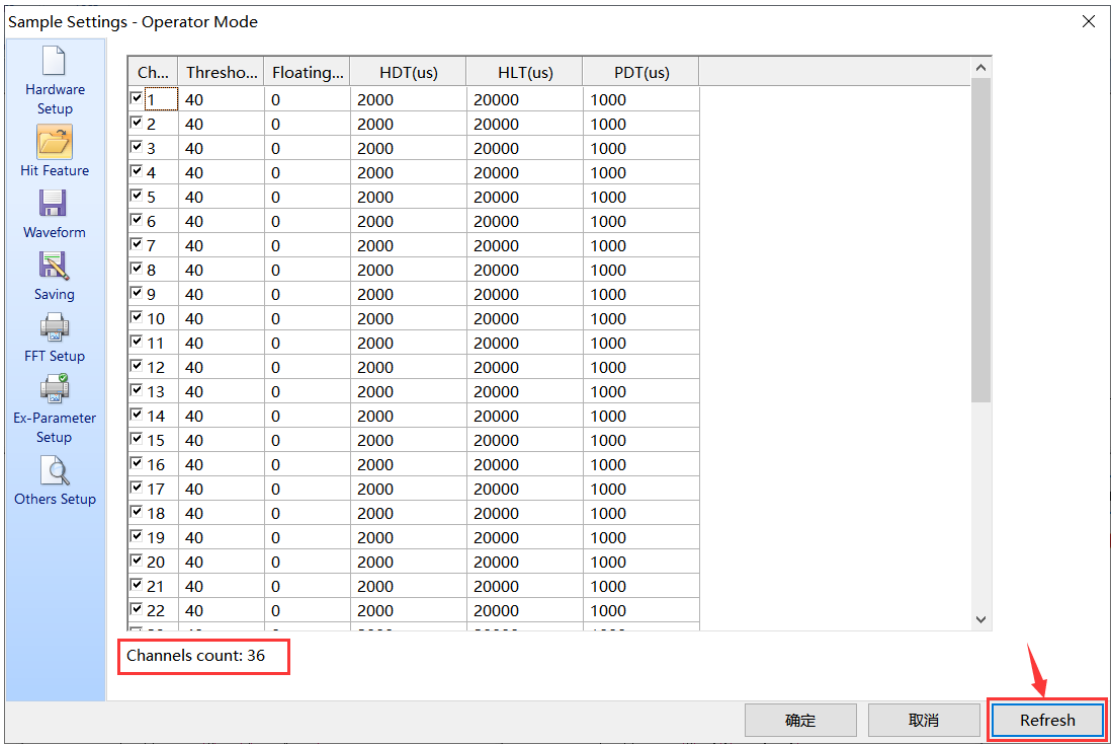



must be 00
connect to external sensor voltage output
EX-PARA BOX
电源 PWR
采集 RUN
参数 HIT
波形 WAV
外参 EXP
输入 IN
输出 OUT
上联 UP
下联 DWN
接地 GND
取消 ESC
报警 ALM
警告 WAR
通信 COM

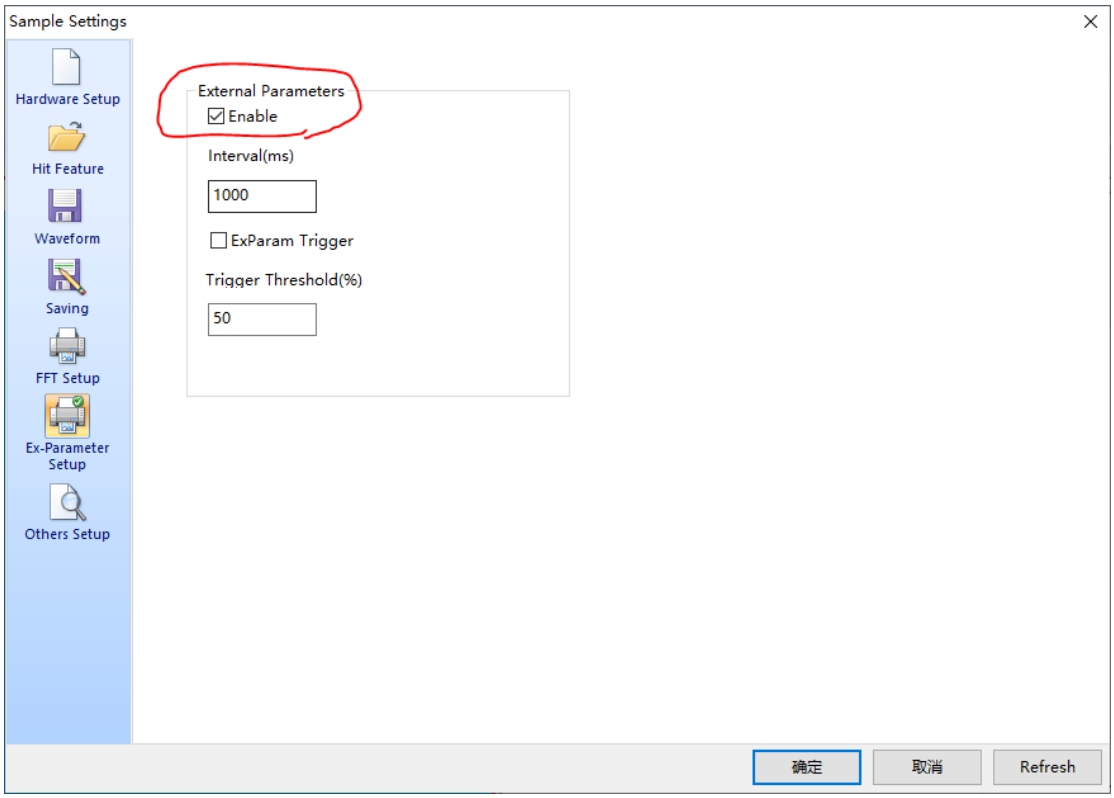
3) Open the U3H software. After then turn on the U3H chassis (hardware). Open "Hardware and Sample" and select "Sample Settings".



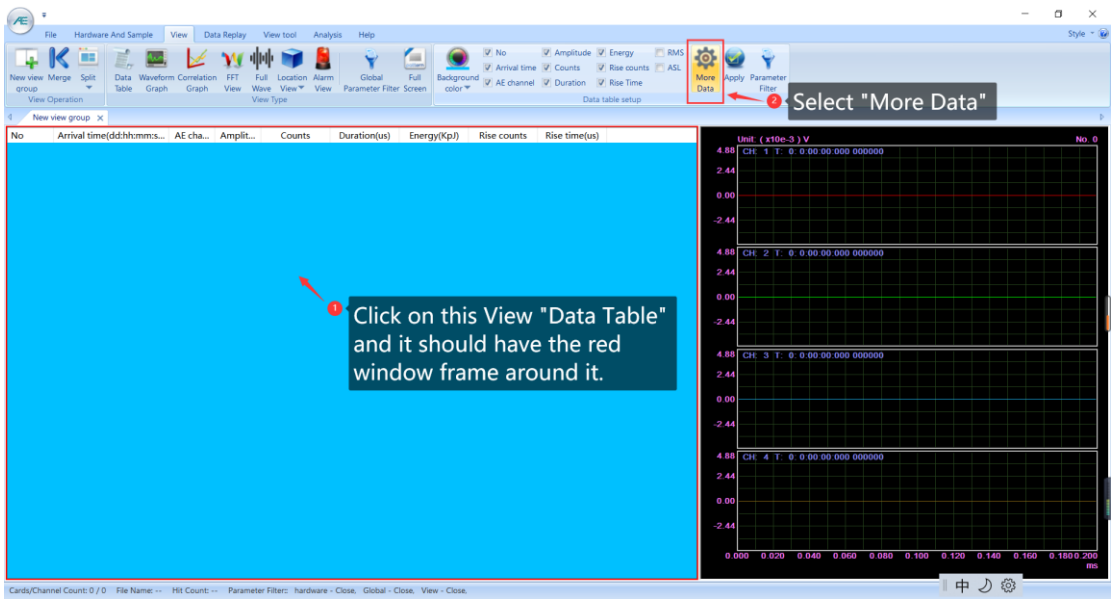
4) In the "Sample settings" >> "Hit Feature", click "Refresh" button at the bottom right corner of the window. After refreshing the hardware, it shows how many channels it recognizes at the bottom. Make sure to tick at least one of the channels that the EX_PARA BOX connects with (should #1-4).

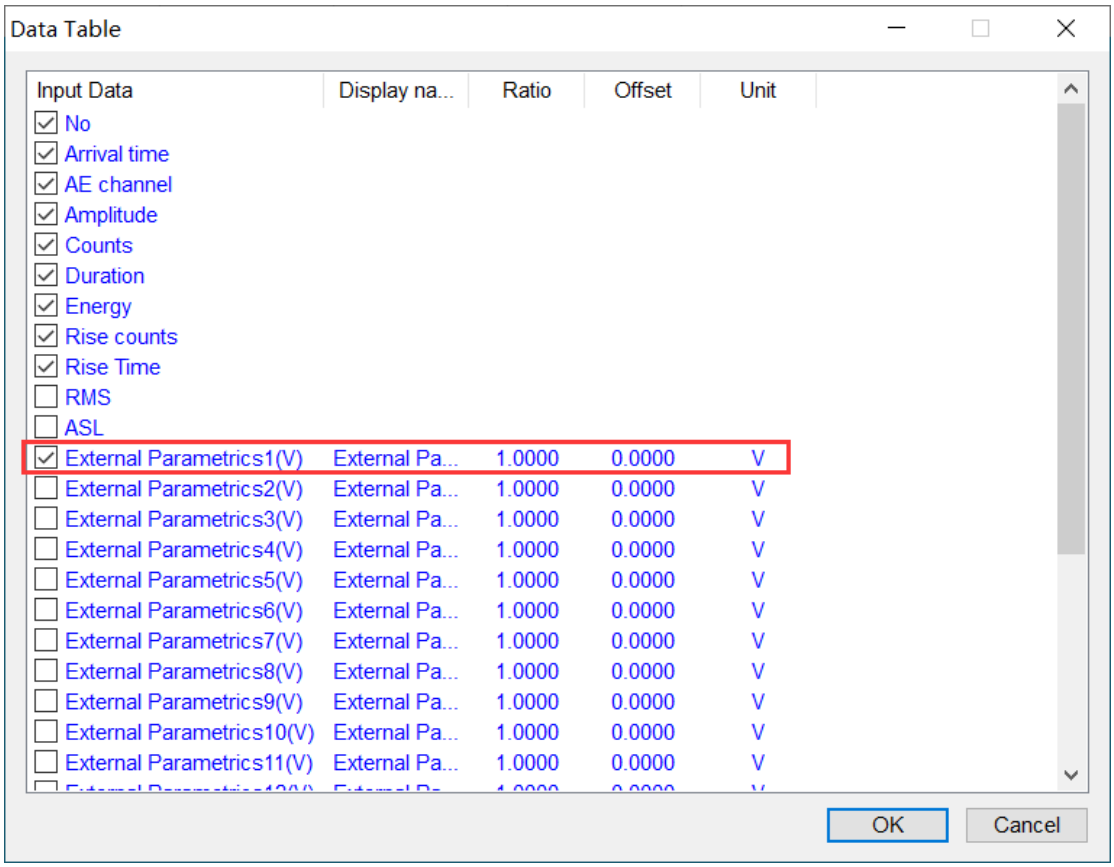


5) In the "Ex-Parameter Setup" section, tick "Enable" to enable external card acquisition.



6) Open “View”. Select the “Data Table” view by clicking on the area and then select “More Data”. In the popup window, scroll down and tick the External Parametrics1 and click “OK”. The external parameter #1 will show up as a new column in the Data Table.





7) In our test, the external parameter #1's initial reading was 0.21V. When there was a 6.34V applied to the external parameter box PARA1, it was reading 6.34V.