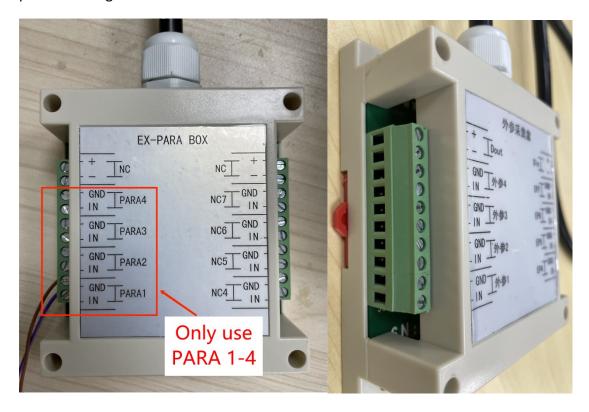
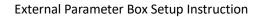


External Parameter Card Setup Instruction

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.









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).

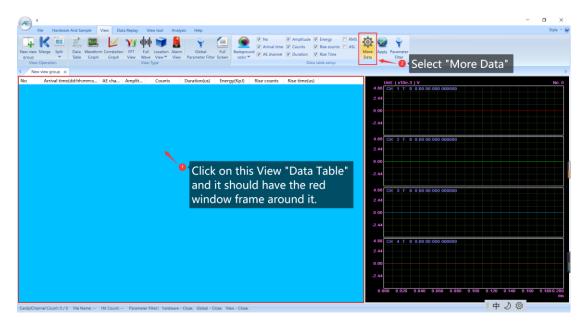
ple Settin	ngs - Opei	rator Mode								
	Ch	Thresho	Floating	HDT(us)	HLT(us)	PDT(us)			^	
ardware Setup	☑ 1	40	0	2000	20000	1000				
	₹ 2	40	0	2000	20000	1000				
2	▼ 3	40	0	2000	20000	1000				
Feature	₹ 4	40	0	2000	20000	1000				
	₹ 5	40	0	2000	20000	1000				
veform	₢ 6	40	0	2000	20000	1000				
	₹7	40	0	2000	20000	1000				
N	₹ 8	40	0	2000	20000	1000				
aving	▼ 9	40	0	2000	20000	1000				
	II 10	40	0	2000	20000	1000				
	I 11	40	0	2000	20000	1000				
Setup	✓ 12	40	0	2000	20000	1000				
	I 13	40	0	2000	20000	1000				
rameter	IZ 14	40	0	2000	20000	1000				
etup	1 5	40	0	2000	20000	1000				
6	I 16	40	0	2000	20000	1000				
rs Setup	IT 17	40	0	2000	20000	1000				
is setup	IZ 18	40	0	2000	20000	1000				
	I 19	40	0	2000	20000	1000				
	I ≥0	40	0	2000	20000	1000]			
	I 21	40	0	2000	20000	1000]			
	₽ 22	40	0	2000	20000	1000			~	
	le		-				1			
	Channe	els count: 36	5							
							确定	取消		Refresh

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



Sample Settings				×
Hardware Setup Hit Feature Hit Feature Saving FFT Setup Ex-Parameter Setup Others Setup	External Parameters Enable Interval(ms) 1000 ExParam Trigger Trigger Threshold(%) 50			
		确定	取消	Refresh

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.





ita Table					-		×
Input Data	Display na	Ratio	Offset	Unit			^
No No							
Arrival time							
AE channel							
Amplitude							
✓ Counts							
✓ Duration							
✓ Energy							
✓ Rise counts							
🗸 Rise Time							
RMS							
ASL							
External Parametrics1(V)	External Pa	1.0000	0.0000	V			
External Parametrics2(V)	External Pa	1.0000	0.0000	V			
External Parametrics3(V)	External Pa	1.0000	0.0000	V			
External Parametrics4(V)	External Pa	1.0000	0.0000	V			
External Parametrics5(V)	External Pa	1.0000	0.0000	V			
External Parametrics6(V)	External Pa	1.0000	0.0000	V			
External Parametrics7(V)	External Pa	1.0000	0.0000	V			
External Parametrics8(V)	External Pa	1.0000	0.0000	V			
External Parametrics9(V)	External Pa	1.0000	0.0000	V			
External Parametrics10(V)	External Pa	1.0000	0.0000	V			
External Parametrics11(V)	External Pa	1.0000	0.0000	V			
D	E.4	4 0000	0.0000	× /			*
					OK	Car	ncel

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.

ttings	e Hardware And Sample View D D D D A A A A A A A A A A A A A A A A		ardware meter Filter	Analysis H	elp									Style
lo	Arrival time(dd:hh:mm:ss:mmm	AE channel	Amplitude	Counts	Ext 1 ^									
131	10:10:18:18:984 767000	2	0.0	0	6.345	6-								
132	10:10:18:18:984 975800	3	0.0	0	6.345									
133	10:10:18:19:784 549100	1	0.0	0	6.345	5.5-								
134	10:10:18:19:784 767000	2	0.0	0	6.345									
135	10:10:18:19:784 975800	3	0.0	0	6.345	5-								
136	10:10:18:20:584 549100	1	0.0	0	6.344	4.5-								
137	10:10:18:20:584 767000	2	0.0	0	6.344	4.5-								
138	10:10:18:20:584 975800	3	0.0	0	6.344	4-								
139	10:10:18:21:384 549100	1	0.0	0	6.343									
140	10:10:18:21:384 767000	2	0.0	0	6.343	3.5-								
141	10:10:18:21:384 975800	3	0.0	0	6.343	X								
142	10:10:18:22:184 549100	1	0.0	0	6.343	3-								
143	10:10:18:22:184 767000	2	0.0	0	6.343	2.5-								
144	10:10:18:22:184 975800	3	0.0	0	6.343	210								
145	10:10:18:22:984 549100	1	0.0	0	0.210	2-								
146	10:10:18:22:984 767000	2	0.0	0	0.210									
147	10:10:18:22:984 975900	3	0.0	0	0.210	1.5-								
148	10:10:18:23:784 549100	1	0.0	0	0.210									
149	10:10:18:23:784 767100	2	0.0	0	0.210	1-								
150	10:10:18:23:784 975900	3	0.0	0	0.210	0.5-								
151	10:10:18:24:584 549100	1	0.0	0	0.210									
152	10:10:18:24:584 767100	2	0.0	0	0.210			واعتبادهم	ينبخجد					
153	10:10:18:24:584 975900	3	0.0	0	0.210 🗸		50	100	150	200	250	300	350	400
									X:Arri	/al time(100ms)			