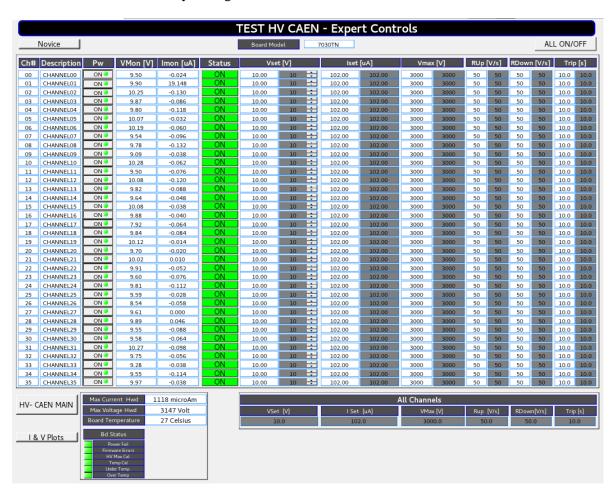# HV-EPICS Test Station Status Report
Date: July 10, 2019

DSG Staff: Pablo Campero

1. Modified HV CAEN – Expert Control CSS-BOY screen to test HV board model CAEN-7030TN.
   - 1.1. Added twelve channels to HV CAEN—Expert Control screen used for previous board tested (A7435SN).
   - 1.2. Six Java scripts written to set the value of all 36 channels of one or more of the six variables (output voltage, current limit, maximum output voltage, ramp up, ramp down and trip time).
   - 1.3. Performed test by setting all 36 channels at 10 V.

TEST HV CAEN - Expert Controls

Novice | Board Model 7030TN | ALL ON/OFF

Ch#	Description	Pw	VMon [V]	Imon [uA]	Status	Vset [V]		Iset [uA]		Vmax [V]		RUp [V/s]		RDown [V/s]		Trip [s]	
00	CHANNEL00	ON	9.50	-0.024	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
01	CHANNEL01	ON	9.90	19.148	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
02	CHANNEL02	ON	10.25	-0.130	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
03	CHANNEL03	ON	9.87	-0.086	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
04	CHANNEL04	ON	9.80	-0.118	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
05	CHANNEL05	ON	10.07	-0.032	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
06	CHANNEL06	ON	10.19	-0.060	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
07	CHANNEL07	ON	9.54	-0.096	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
08	CHANNEL08	ON	9.78	-0.132	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
09	CHANNEL09	ON	9.09	-0.038	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
10	CHANNEL10	ON	10.28	-0.062	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
11	CHANNEL11	ON	9.50	-0.076	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
12	CHANNEL12	ON	10.08	-0.120	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
13	CHANNEL13	ON	9.82	-0.088	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
14	CHANNEL14	ON	9.64	-0.048	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
15	CHANNEL15	ON	10.08	-0.038	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
16	CHANNEL16	ON	9.88	-0.040	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
17	CHANNEL17	ON	7.92	-0.064	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
18	CHANNEL18	ON	9.84	-0.084	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
19	CHANNEL19	ON	10.12	-0.014	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
20	CHANNEL20	ON	9.70	-0.020	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
21	CHANNEL21	ON	10.02	0.010	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
22	CHANNEL22	ON	9.91	-0.052	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
23	CHANNEL23	ON	9.60	-0.076	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
24	CHANNEL24	ON	9.81	-0.112	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
25	CHANNEL25	ON	9.59	-0.028	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
26	CHANNEL26	ON	8.54	-0.058	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
27	CHANNEL27	ON	9.61	0.000	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
28	CHANNEL28	ON	9.89	0.046	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
29	CHANNEL29	ON	9.55	-0.088	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
30	CHANNEL30	ON	9.58	-0.064	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
31	CHANNEL31	ON	10.27	-0.098	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
32	CHANNEL32	ON	9.75	-0.056	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
33	CHANNEL33	ON	9.28	-0.038	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
34	CHANNEL34	ON	9.55	-0.114	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0
35	CHANNEL35	ON	9.97	-0.038	ON	10.00	10	102.00	102.00	3000	3000	50	50	50	50	10.0	10.0

HV- CAEN MAIN

Max Current Hwd	1118 microAm
Max Voltage Hwd	3147 Volt
Board Temperature	27 Celsius

I & V Plots

Bd Status
- Power Fail
- Firmware Errors
- HV Max Cal
- Temp Cal
- Under Temp
- Over Temp

All Channels

VSet [V]	I Set [uA]	VMax [V]	Rup [V/s]	RDown[V/s]	Trip [s]
10.0	102.0	3000.0	50.0	50.0	10.0

HV-CAEN –Expert Control CSS-BOY screen

2. Added HV-CAEN—Expert Controls CSS-BOY screen to drop down menu in SY4527 MAINFRAME screen to allow navigation between screens.