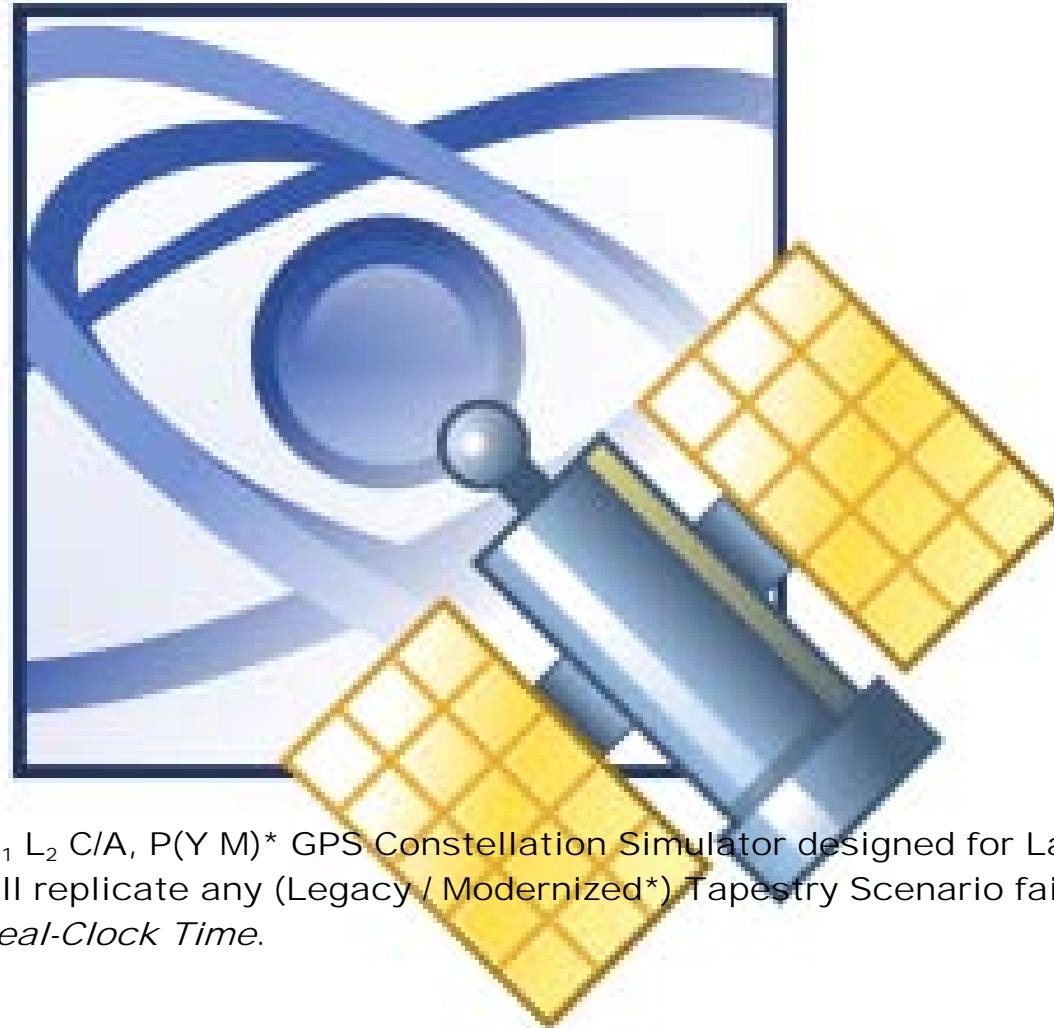


LABBOX

L₁ L₂ DESKTOP CONSTELLATION SIMULATOR

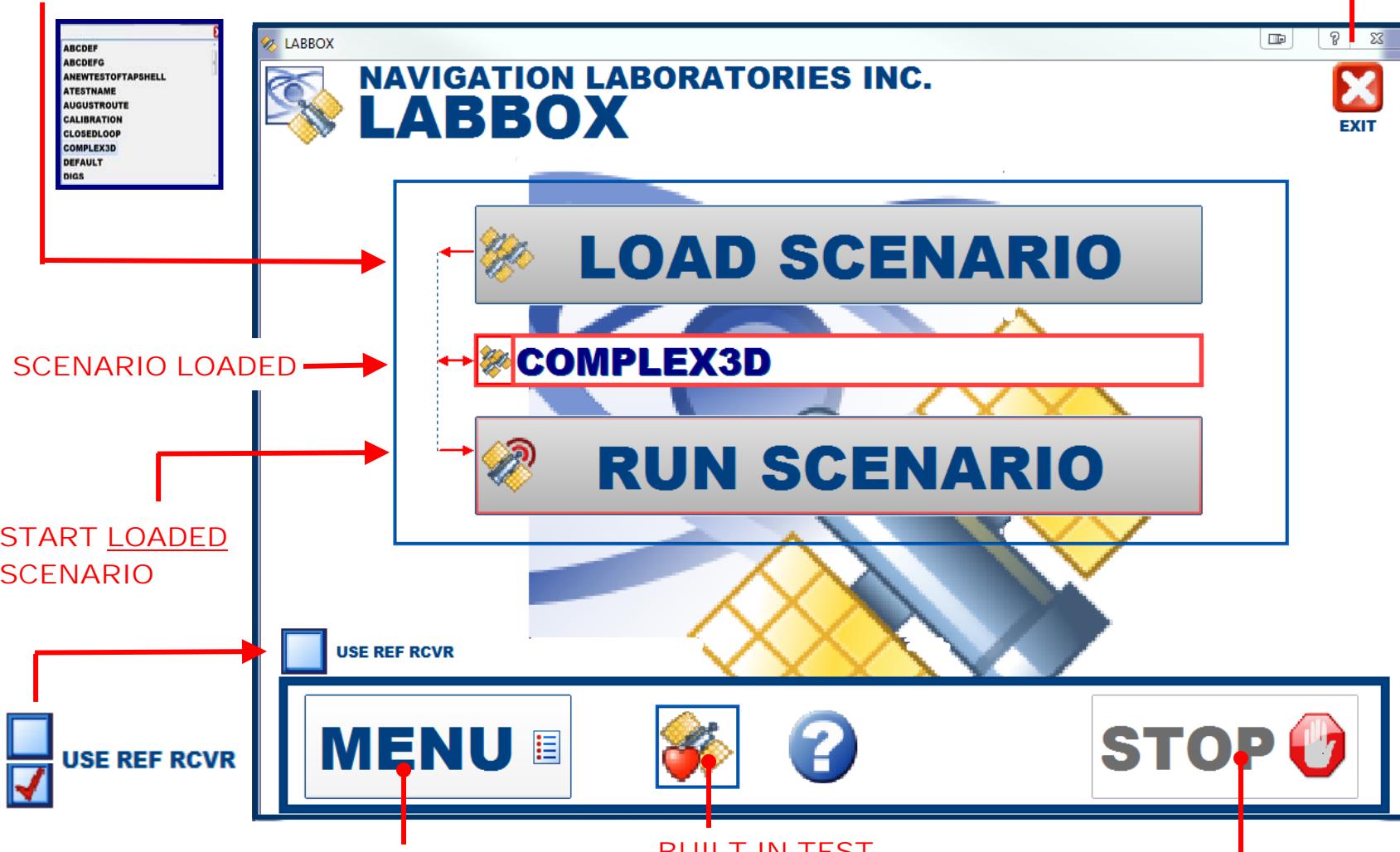


LABBOX is a 16 channel L₁ L₂ C/A, P(Y M)* GPS Constellation Simulator designed for Laboratory desk-top use. LABBOX will replicate any (Legacy / Modernized*) Tapestry Scenario faithfully in either *Scenario-Time* or *Real-Clock Time*.

* optional

SELECT SCENARIO
TO LOAD

CLOSE LABBOX



- OUTPUT TIME OPTIONS
- REMOTE CONTROL
- TRANSFER SCENARIO FROM MEDIA TO LABBOX
- BUILT IN TEST , POWER CALIBRATION

STOP RF OUTPUT

LOAD SCENARIO



THE LOADED SCENARIO IS
SHOWN HERE



TO ADD SCENARIOS USE THE
TRANSFER FUNCTION [MENU]
OR "MAKE A SCENARIO" [MENU]



INCLUDED PREBUILT SCENARIOS:

STATIC - 24 HOURS

1/5 G FIGURE EIGHT - 4 HOURS

1/2 G FIGURE EIGHT - 4 HOURS

1/5 G RACE TRACK - 4 HOURS

1/2 G RACE TRACK - 4 HOURS

1/2 G PITCH TO ALTITUDE RACE TRACK - 4 HOURS

1 G PITCH TO ALTITUDE RACE TRACK - 4 HOURS

USE LABBOX CONTROLS TO
CHANGE INITIAL TIME AND
LOCATION



RUN SCENARIO

STARTS THE [LOADED] SCENARIO
OUTPUT

SCREEN 1

RUN STATUS

TIME
1643 13 2011:7:3 0:0:13

SCENARIO COUNTER
 6%

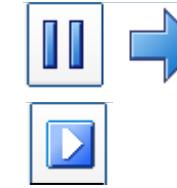
187 SECONDS

GEODETC
34.00701 -117.99962 -0.00 M 100.0 M/S

ECEF
-2484799.6 -4673302.3 3547090.7 M
48.3 35.5 80.0 M/S

MENU STOP

PAUSE /RESUME
STATUS DISPLAY



NEXT SCREEN
(OF 3)

SCREEN 2

L1	L2	6	III	→
1	2	24987634.8	-589.8	13.0
2	4	24403896.1	-644.7	12.0
3	7	25386302.9	709.2	13.7
4	8	22105341.9	564.1	7.0
5	9	22828709.5	-683.6	9.2
6	11	24087255.7	478.7	10.2
7	15	22801084.9	464.6	8.0
8	17	20457698.2	167.2	4.6
9	26	24951890.6	-490.7	14.3
10	28	22484975.6	273.2	6.8
11	0	0.0	0.0	0.0
12	0	0.0	0.0	0.0
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	-	-	-	-

CLICK THIS TO RETURN TO
RUN STATUS SCREEN 1

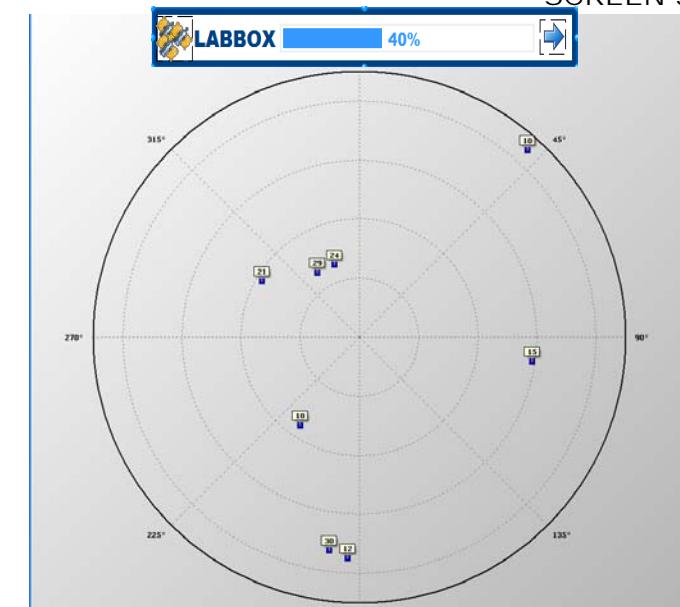


SCREEN 3

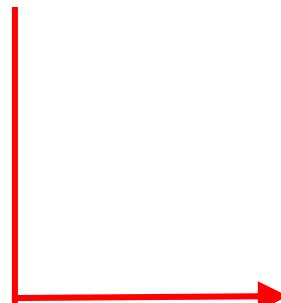
RF Control (dB)

mon RF Gain(dB):

Chan	Sv	L1 Atten	L2 Atten	El
All				
1		10	15.4	5.3
2		12	16.9	5.3
3		15	9.0	5.3
4		18	8.1	5.3
5		21	6.6	5.3
6		24	6.3	5.3
7		29	6.4	5.3
8		30	14.9	5.3
9				
10				
11				
12				



SHOW THE RUN STATUS AND
POWER SCREEN

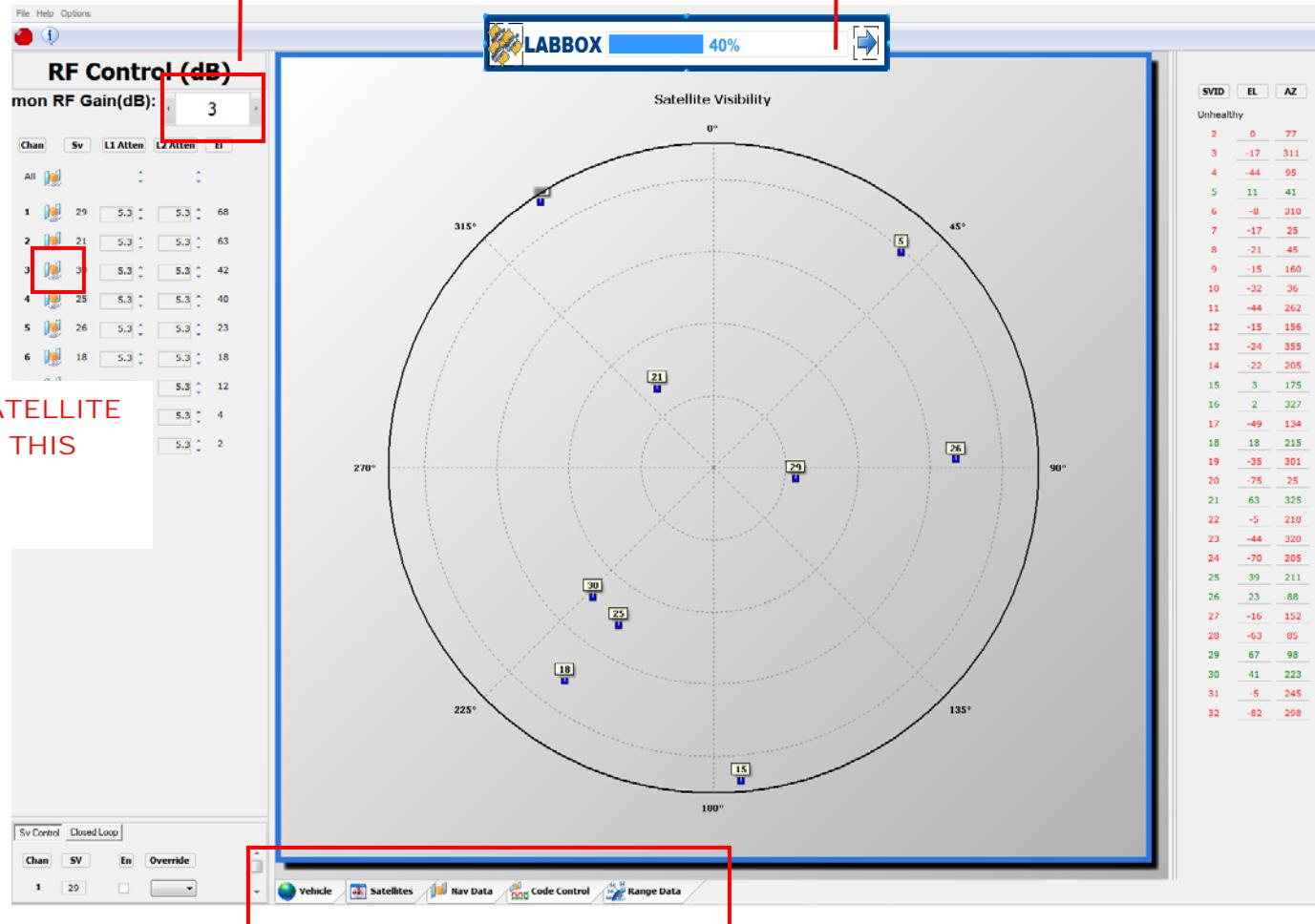




RUN SCENARIO

ADJUST POWER LEVEL USING UP/DOWN COUNTERS

% SIMULATION COMPLETED
CLICK TO RETURN TO LABBOX SCREEN



TO PRODUCTIVELY ACCESS ADDITIONAL FEATURES OF THIS RUN-SCREEN, CONNECT A USB-MOUSE; AND SEE [USING RUN SCENARIO FOR THE TAPESTRY SYSTEM](#)

MENU



IMPORT A SCENARIO FROM
USB DRIVE OR OTHER
MEDIA



MENU



TRANSFER



REMOTE CONTROL



CALIBRATE POWER

SW VERSION 1017

OPERATE LABBOX
VIA ETHERNET

CALIBRATE

START

BUILT IN TEST

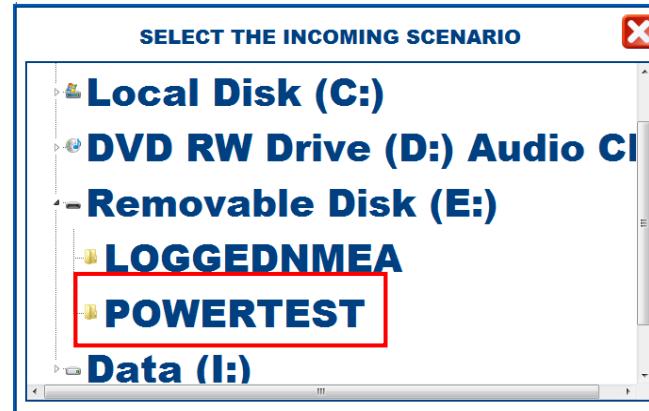
HW BIT

SW VERSION 1006

TRANSFER

TRANSFER A SCENARIO TO THE LABBOX

SELECT SCENARIO
FOLDER



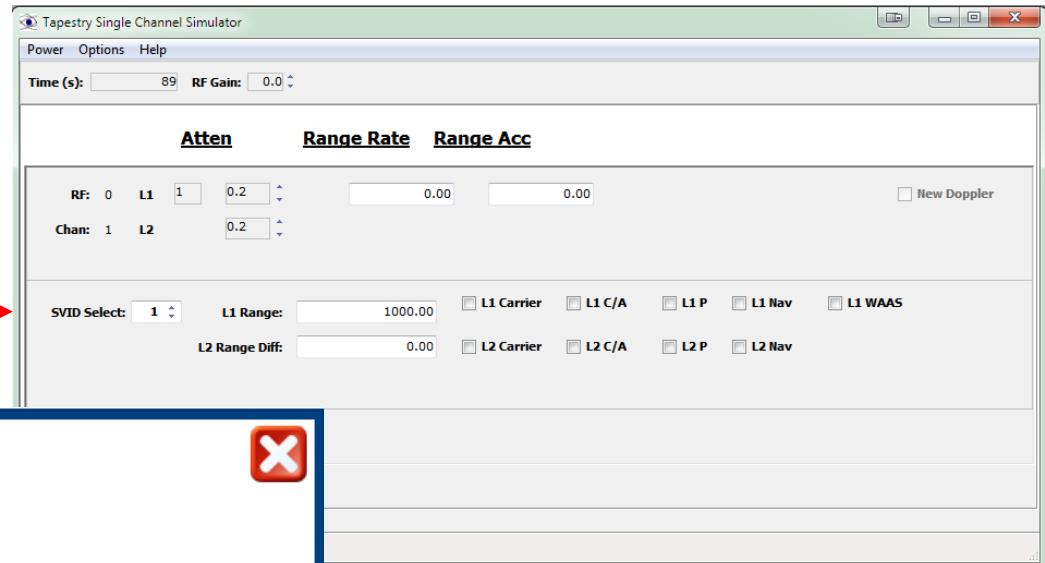
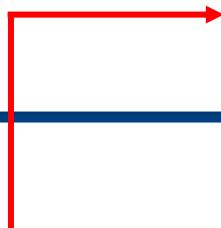
TRANSLATES THE
SCENARIO TO LABBOX
FORMAT (REQUIRED)

**PRESS TO BUILD
LABBOX FILES**



CALIBRATE POWER

SEE THIS [DOCUMENT](#) FOR
CALIBRATION PROCEDURES



CALIBRATE

START

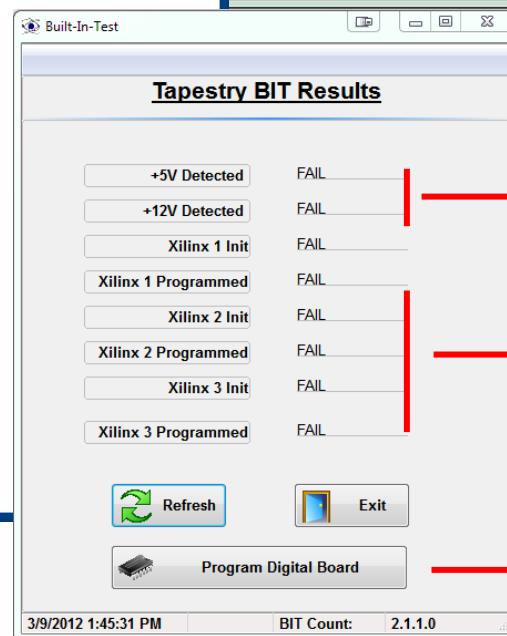


BUILT IN TEST

HW BIT

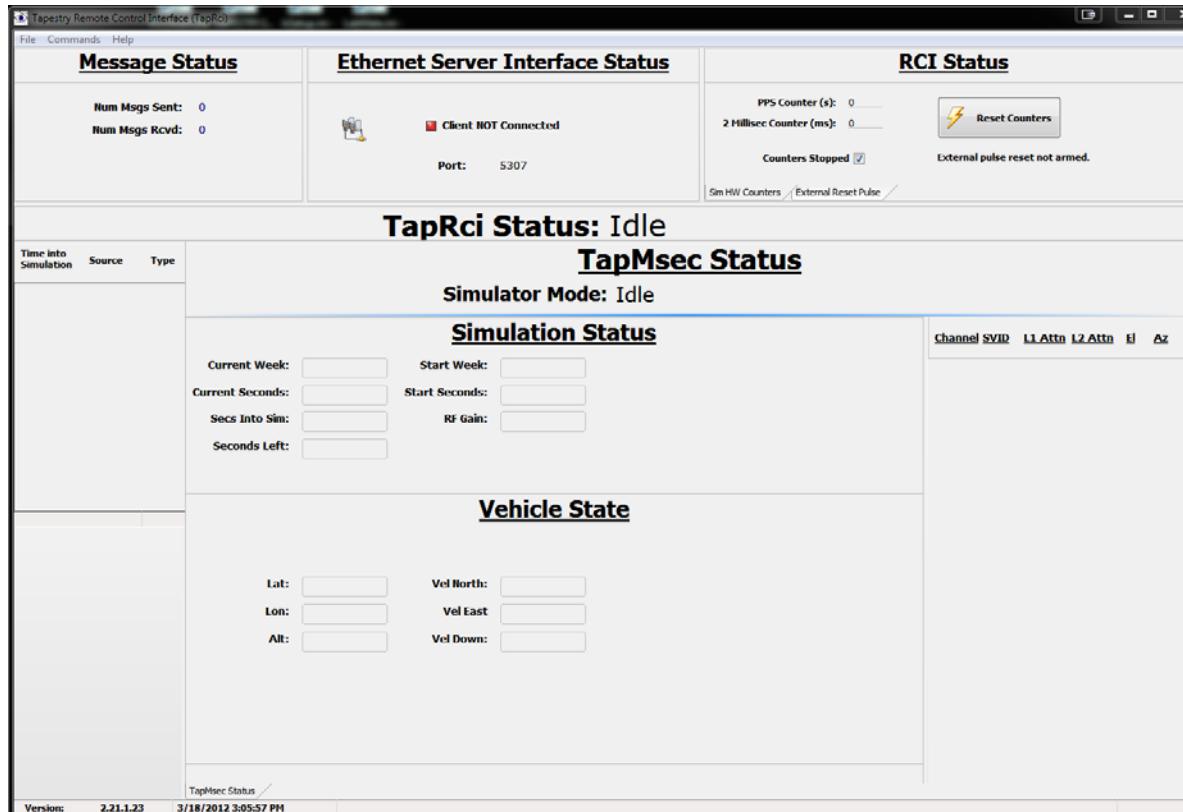


SW VERSION 1006



? +5V / +12V FAIL
CHECK THAT BOTH AC PLUGS
ARE ATTACHED,
CHECK FUSE (1.5 A)

REMOTE CONTROL

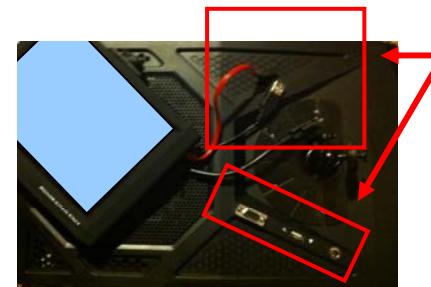


TO PRODUCTIVELY ACCESS ADDITIONAL FEATURES OF THIS RUN-
SCREEN, CONNECT A USB-MOUSE AND SEE,
[REMOTE CONTROL INTERFACE MANUAL.PDF](#)

LABBOX: INITIAL SETUP



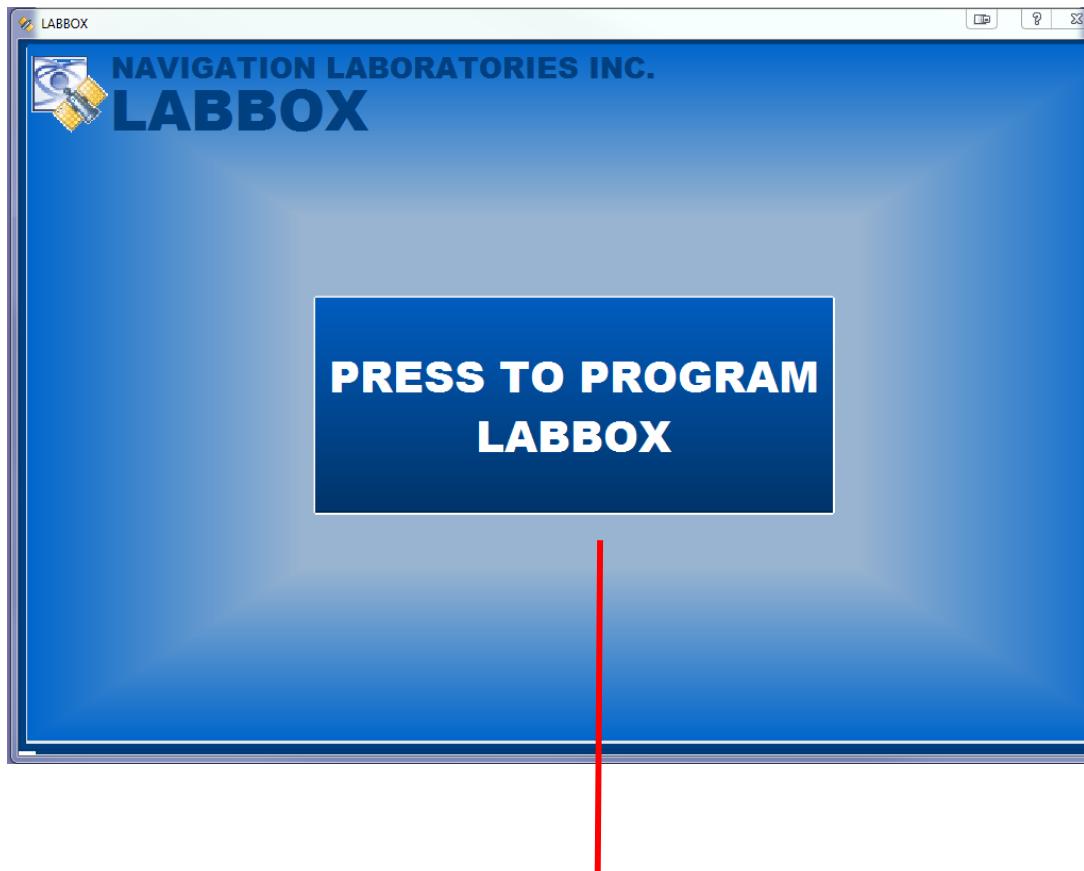
BOTH AC RECEPTACLES MUST BE CONNECTED



LABBOX: INITIAL SETUP / POWER-UP

ON POWER-UP,
THE PROGRAM LABBOX APPEARS.
PRESS THE PROGRAMMING BUTTON

THE LABBOX IS READY FOR USE !



FLASHES THE FPGA AND RUNS BUILT IN TEST