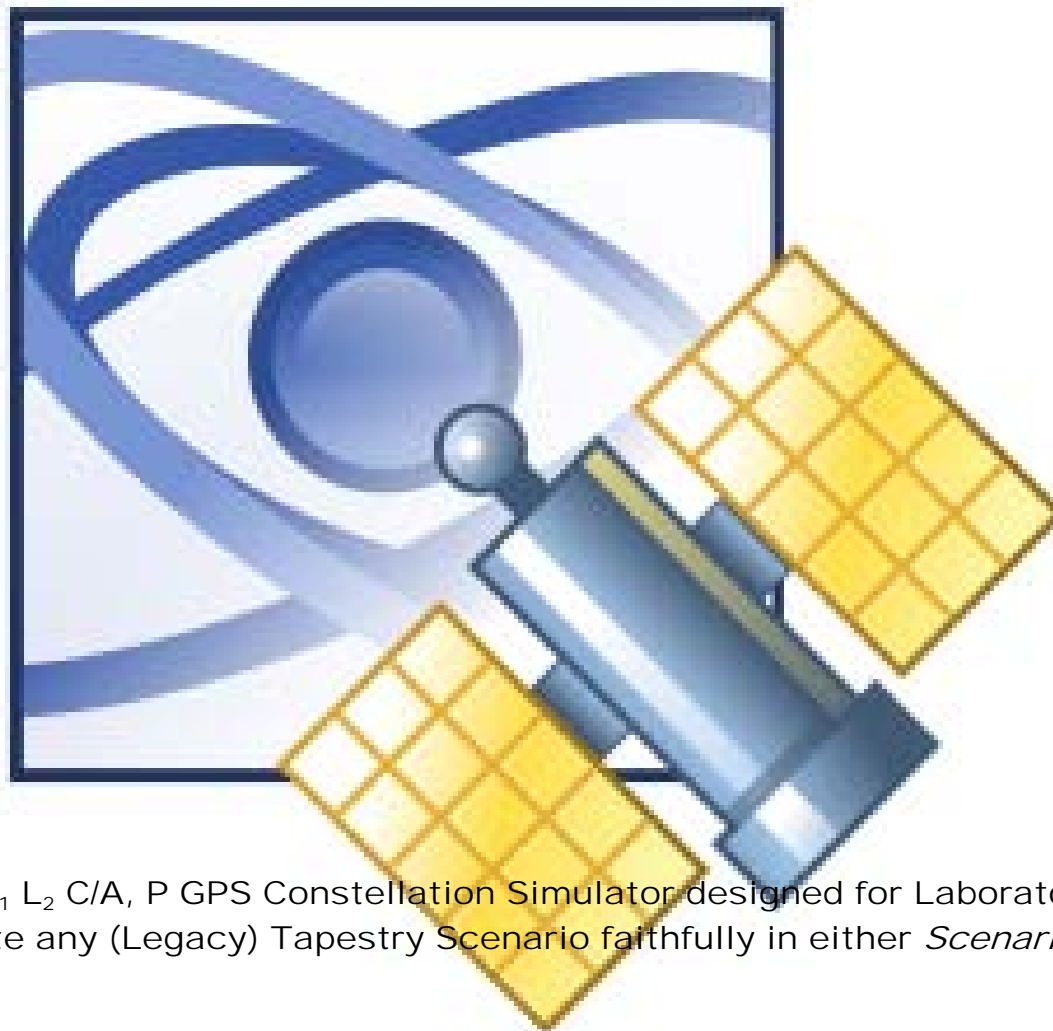


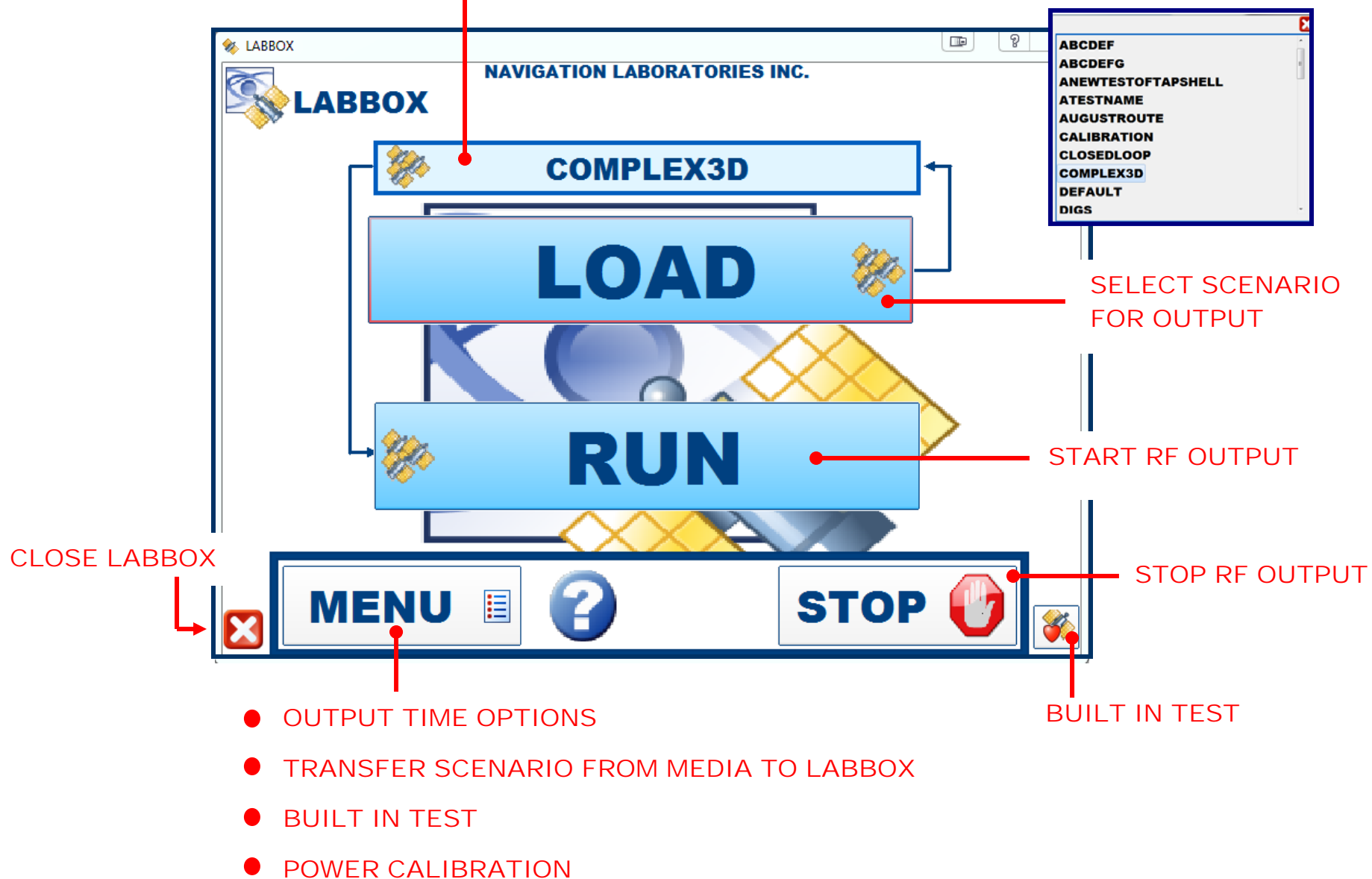
# LABBOX

## $L_1$ $L_2$ DESKTOP CONSTELLATION SIMULATOR



LABBOX is a 12 channel  $L_1$   $L_2$  C/A, P GPS Constellation Simulator designed for Laboratory desk-top use. LABBOX will replicate any (Legacy) Tapestry Scenario faithfully in either *Scenario-Time* or *Real-Clock Time*.

SCENARIO LOADED INTO THE  
SIMULATOR READY TO RUN



# LOAD



THE LOADED SCENARIO IS  
SHOWN HERE



## COMPLEX3D

SELECT SCENARIO TO OUTPUT

TO ADD SCENARIOS USE THE  
TRANSFER FUNCTION [ MENU ]



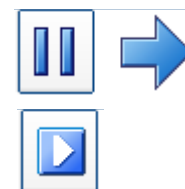
**ABCDEF**  
**ABCDEFGF**  
**ANEWTESTOFTAPSHELL**  
**ATESTNAME**  
**AUGUSTROUTE**  
**CALIBRATION**  
**CLOSEDLOOP**  
**COMPLEX3D**  
**DEFAULT**  
**DIGS**



# RUN

STARTS THE [ LOADED ] SCENARIO  
OUTPUT

PAUSE /RESUME  
STATUS DISPLAY



NEXT SCREEN  
( OF 3 )

**RUN STATUS**

TIME

1643 87 2011:7:3 0:1:27

SVID / ELEV

02 04 07 08 09 11 15 17 26 28 00 00  
09 12 03 35 24 14 31 74 04 36 00 00

GEODETTIC

33.98023 -117.941561338.05 M 100.0 M/S

ECEF

-2481360.3 -4678265.0 3545376.4 M  
66.1 -74.4 9.6 M/S

?

STOP

L1 L2		6			
		RANGE(M)	RATE(M/S)	IONO (L1 L2)	TROPO(M)
1	2	24987634.8	-589.8	13.0	21.4
2	4	24403896.1	-644.7	12.0	19.8
3	7	25386302.9	709.2	13.7	22.5
4	8	22105341.9	564.1	7.0	11.6
5	9	22828709.5	-683.6	9.2	15.2
6	11	24087255.7	478.7	10.2	16.8
7	15	22801084.9	464.6	8.0	13.2
8	17	20457698.2	167.2	4.6	7.5
9	26	24951890.6	-490.7	14.3	23.6
10	28	22484975.6	273.2	6.8	11.3
11	0	0.0	0.0	0.0	0.0
12	0	0.0	0.0	0.0	0.0
13	-	-	-	-	-
14	-	-	-	-	-
15	-	-	-	-	-
16	-	-	-	-	-

?

STOP

CLICK THIS TO RETURN TO  
RUN STATUS SCREEN 1

SHOW THE RUN STATUS AND  
POWER SCREEN

**RF Control (dB)**

mon RF Gain(dB): 3

Chan

Sv

L1 Atten

L2 Atten

El

All

1

10

15.4

5.3

5

2

12

16.9

5.3

15

3

15

9.0

5.3

31

4

18

8.1

5.3

55

5

21

6.6

5.3

52

6

24

6.3

5.3

65

7

29

6.4

5.3

64

8

30

14.9

5.3

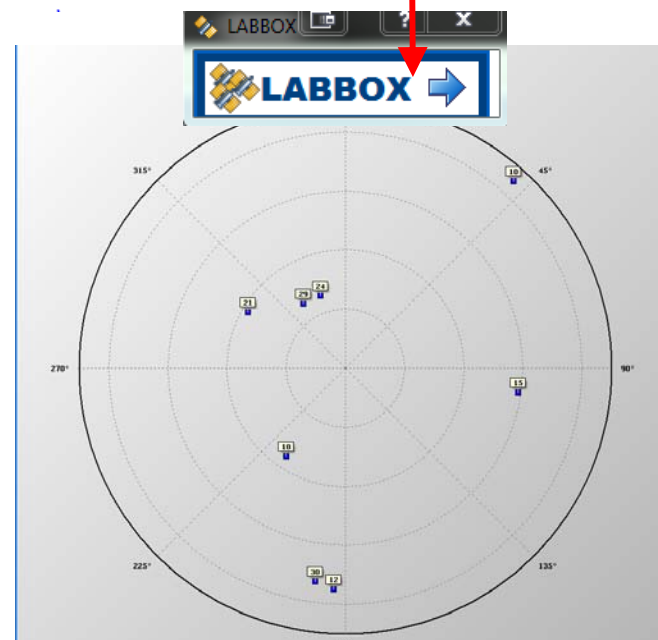
18

9

10

11

12

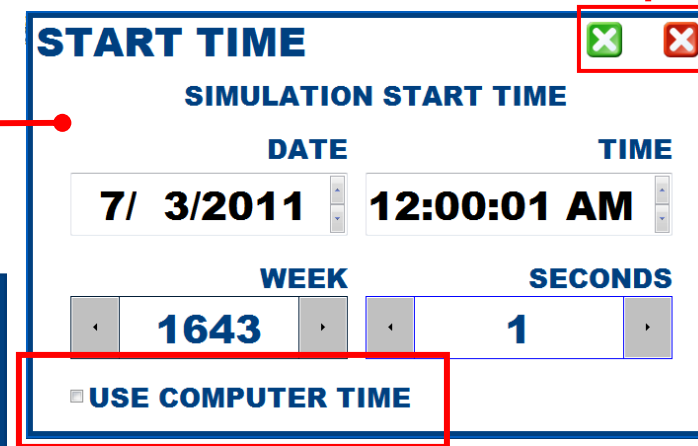




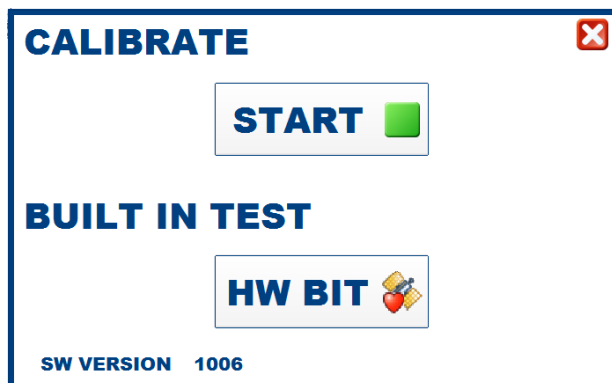
USES SCENARIO TIME UNLESS  
YOU ENTER OTHERWISE



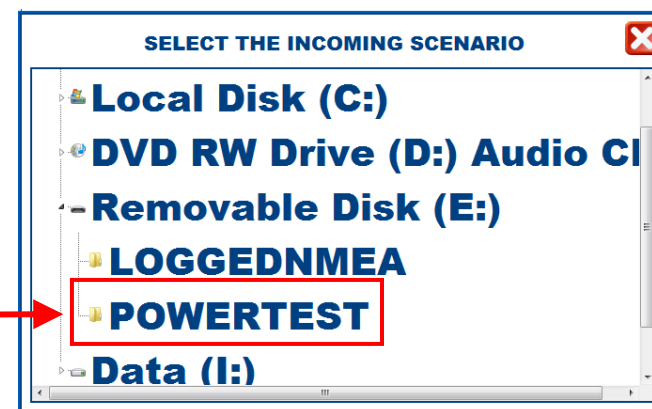
USE GREEN EXIT TO SAVE CHANGES,  
RED = QUIT



CHECK TO OUTPUT SCENARIO  
WITH PC-CLOCK-TIME,  
OTHERWISE ENTER DESIRED  
START TIME (IF OTHER THAN  
SCENARIO TIME)



SELECT THE SCENARIO  
FROM USB DRIVE OR  
OTHER MEDIA





# CALIBRATE

SEE THIS [DOCUMENT](#) FOR  
CALIBRATION PROCEDURES

Tapestry Single Channel Simulator

Power Options Help

Time (s): 89 RF Gain: 0.0

		Atten	Range Rate	Range Acc	
RF: 0	L1	1	0.2	0.00	0.00
Chan: 1	L2	0.2			

SVID Select: 1 L1 Range: 1000.00 L2 Range Diff: 0.00

☐ New Doppler

☐ L1 Carrier ☐ L1 C/A ☐ L1 P ☐ L1 Nav ☐ L1 WAAS

☐ L2 Carrier ☐ L2 C/A ☐ L2 P ☐ L2 Nav

## CALIBRATE

START

## BUILT IN TEST

HW BIT

SW VERSION 1006

Built-In-Test

Tapestry BIT Results

+5V Detected	FAIL
+12V Detected	FAIL
Xilinx 1 Init	FAIL
Xilinx 1 Programmed	FAIL
Xilinx 2 Init	FAIL
Xilinx 2 Programmed	FAIL
Xilinx 3 Init	FAIL
Xilinx 3 Programmed	FAIL

3/9/2012 1:45:31 PM BIT Count: 2.1.1.0

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

# LABBOX SETUP

800 X 600 TOUCH SCREEN.

ATTACH MONITOR TO MOUNT ON THE TOP  
OF THE CHASSIS.

2 PLUGS

DOUBLE CLICK LABBOX SHORT CUT

ALCDP8VGATS

