



Internal Security and Law Enforcement Operator Training

Radiation Solutions Inc. (RSI) User Interfaces

Goal and Objectives



Utilize the three Radiation Solutions Inc. (RSI) user interfaces.

Demonstrate basic functionality of RadAssist.

Demonstrate how to navigate RadView.

Discuss the use of the RadMobile application.

Overview

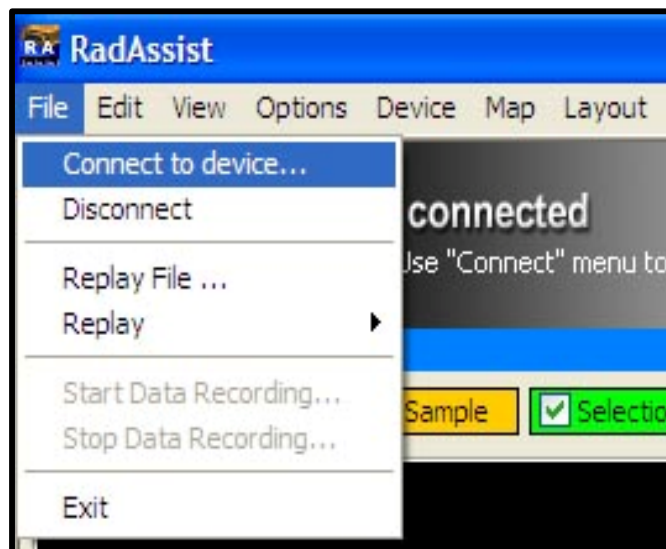
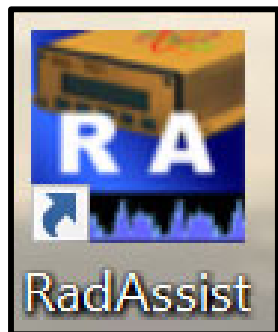


There are three user interfaces for the RSI:

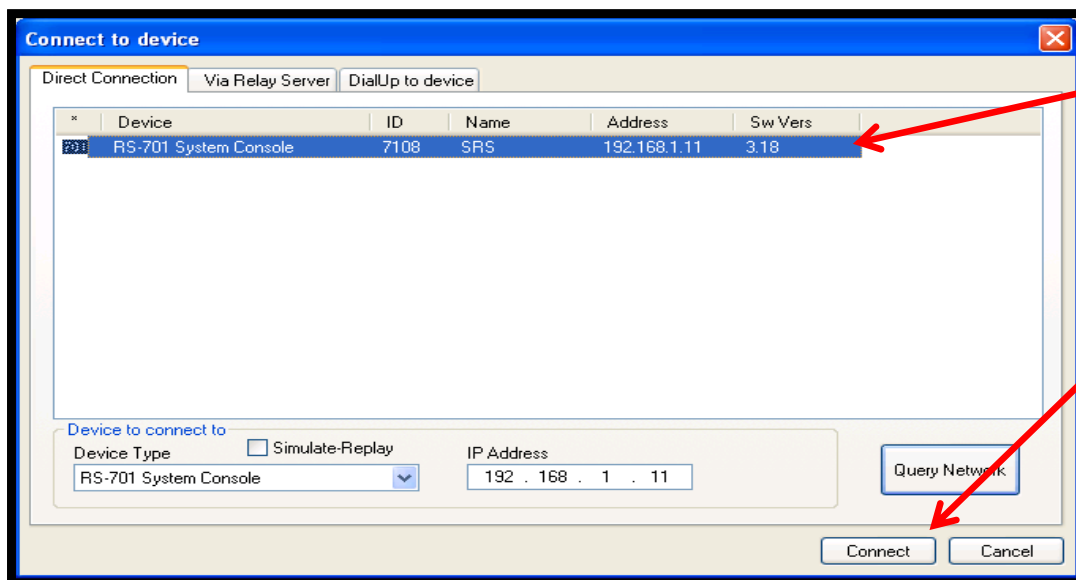
1. RadAssist
 - Interface for technical experts
2. RadView
 - Preferred interface
3. RadMobile
 - Minimal alarm information



RadAssist



To manually connect the program to the device, Select the “**File**” drop down menu, then select “**Connect to device...**”

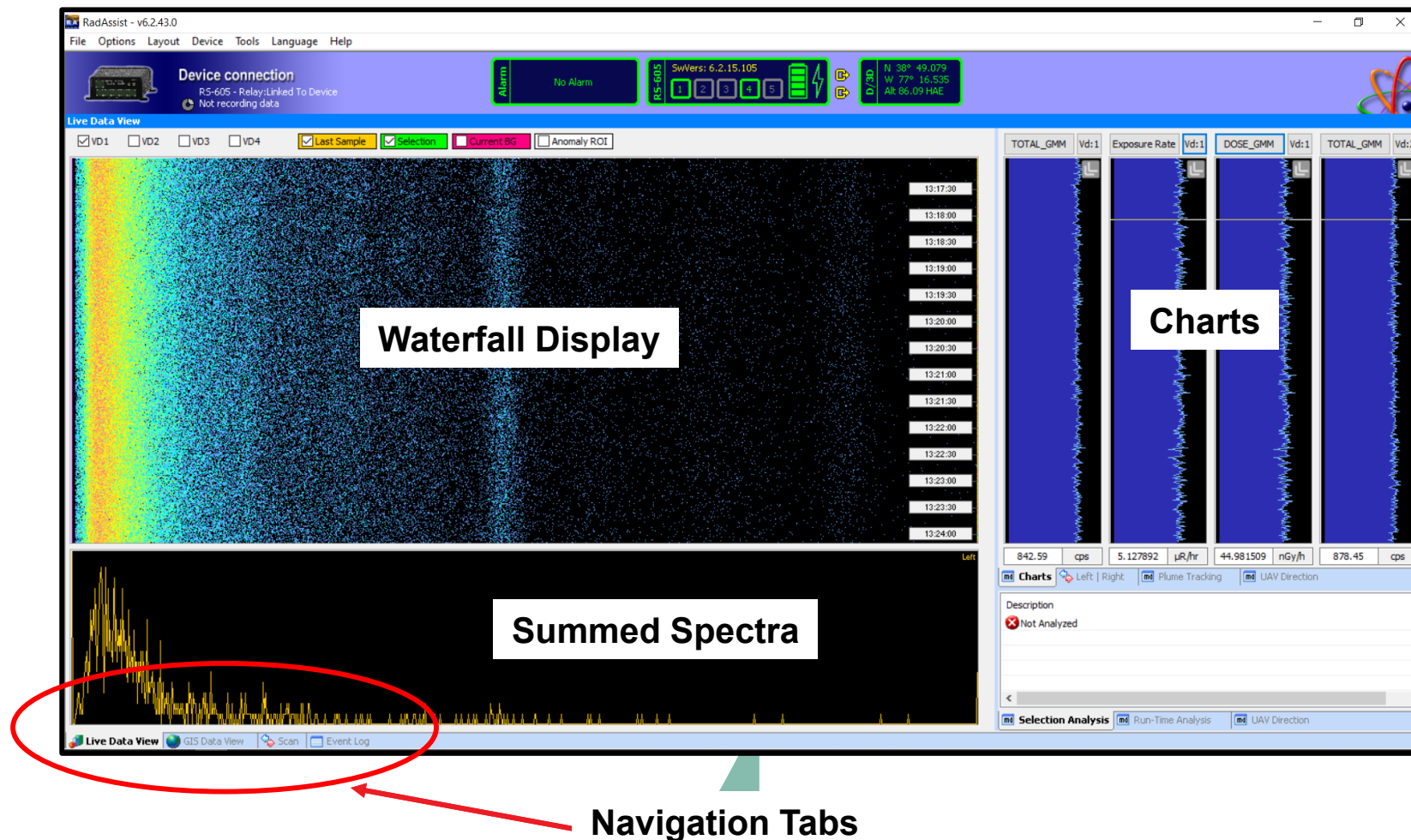


Select the device

Select **Connect** to activate the system

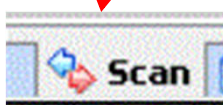
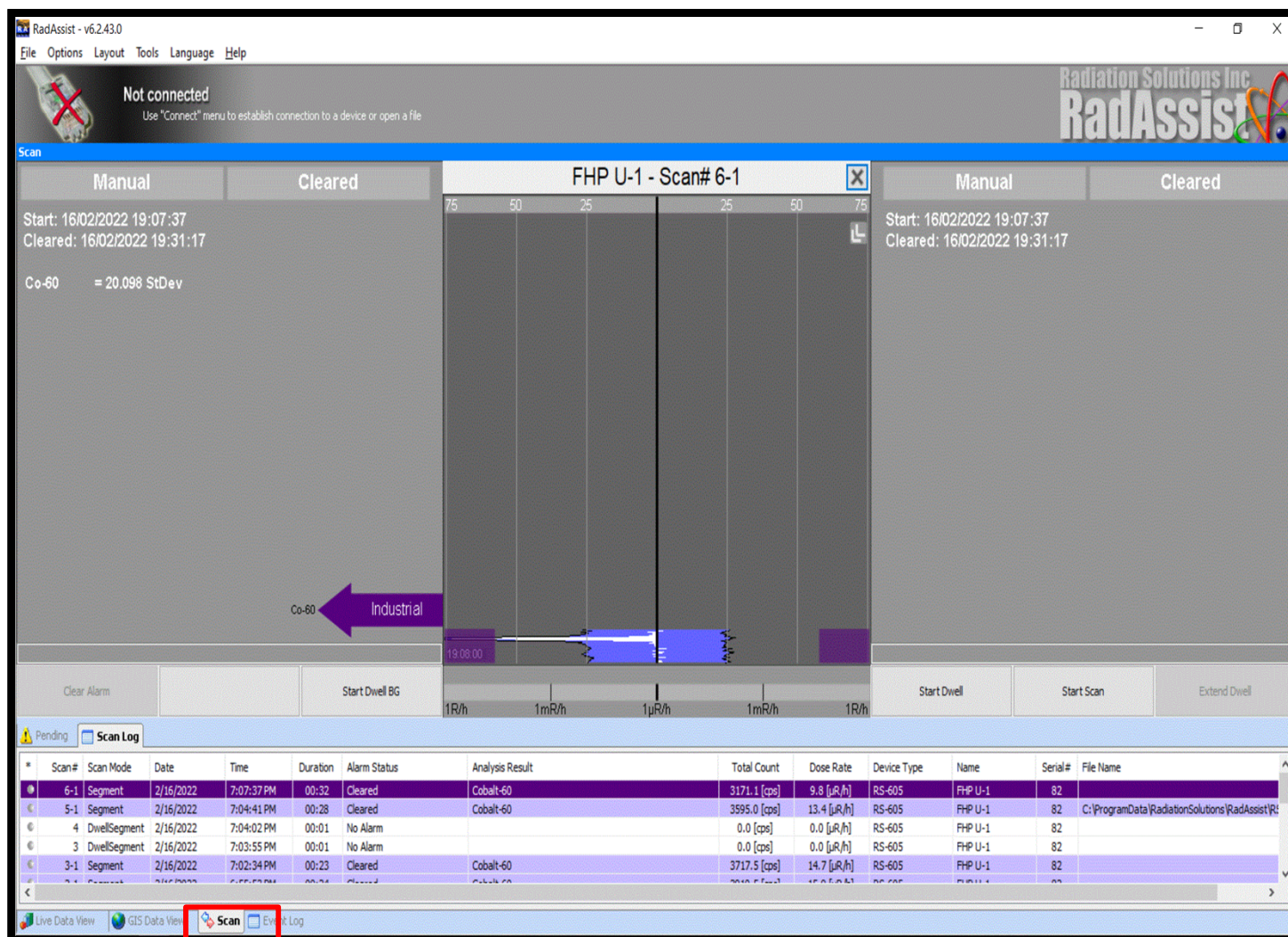
RadAssist (continued)

Standard display (Live Data View):

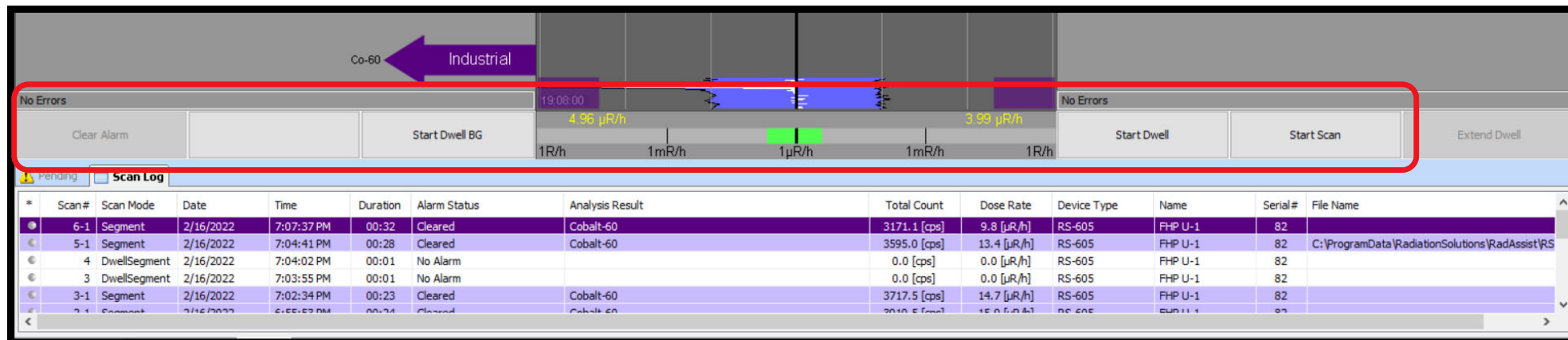


RadAssist (continued)

Left/Right Scan View:



RadAssist (continued)



Clear Alarm – Clears the PENDING ALARMS

Start Dwell BG – Begins a BG [background] measurement

Start Dwell – Starts the DWELL CYCLE

Start Scan (Start Occupancy) – Starts the SCAN CYCLE

RadAssist (continued)

Pending Scan Log													
#	Scan#	Scan Mode	Date	Time	Duration	Alarm Status	Analysis Result	Total Count	Dose	Device Type	Name	Serial#	File Name
€	48	Automatic	01/21/2016	11:27:10	00:13	Pending	Thorium-232 Potassium-40	4814.2 [cps]	14.2 [μR/h]	RS-701	RS-701	7325	C:\RSI Alarms\RA_D20160121_T112710_M0048_RAW.nv
€	47	Automatic	01/21/2016	11:26:50	00:11	Pending	Thorium-232 Potassium-40	4803.5 [cps]	13.9 [μR/h]	RS-701	RS-701	7325	C:\RSI Alarms\RA_D20160121_T112650_M0047_RAW.nv
€	46	Automatic	01/21/2016	11:26:29	00:12	Pending	Thorium-232 Potassium-40	4817.2 [cps]	14.0 [μR/h]	RS-701	RS-701	7325	C:\RSI Alarms\RA_D20160121_T112629_M0046_RAW.nv
€	45	Automatic	01/21/2016	11:25:54	00:11	Pending	Radium-226 Thorium-23...	4846.6 [cps]	14.4 [μR/h]	RS-701	RS-701	7325	C:\RSI Alarms\RA_D20160121_T112554_M0045_RAW.nv
								!!!					

Total Count and Dose rate displayed in Pending and Scan Log.

Mouse – Right-Click

Pending

Scan Log

*	Scan#	Scan Mode	Date	Time	Duration	Alarm Status
	43	Automatic	03/25/2009			Pending
	10	Automatic	03/25/2009			Pending
	8	Automatic	03/25/2009			Pending
	7	Automatic	03/25/2009			Pending
	6	Automatic	03/25/2009			Pending

Clear Alarm

Details

Send E-Mail

Save to folder

Zip N42 Files

Scan Log

*	Scan#	Scan Mode	Date	Time	Duration
	70	Automatic	03/25/		
	69	Automatic	03/25/		
	68	Automatic	03/25/		
	67	Automatic	03/25/		
	66	Automatic	03/25/		

Details

Send E-Mail

Save to folder

Zip N42 Files

Live Data View

GIS Data View

Device Parameters

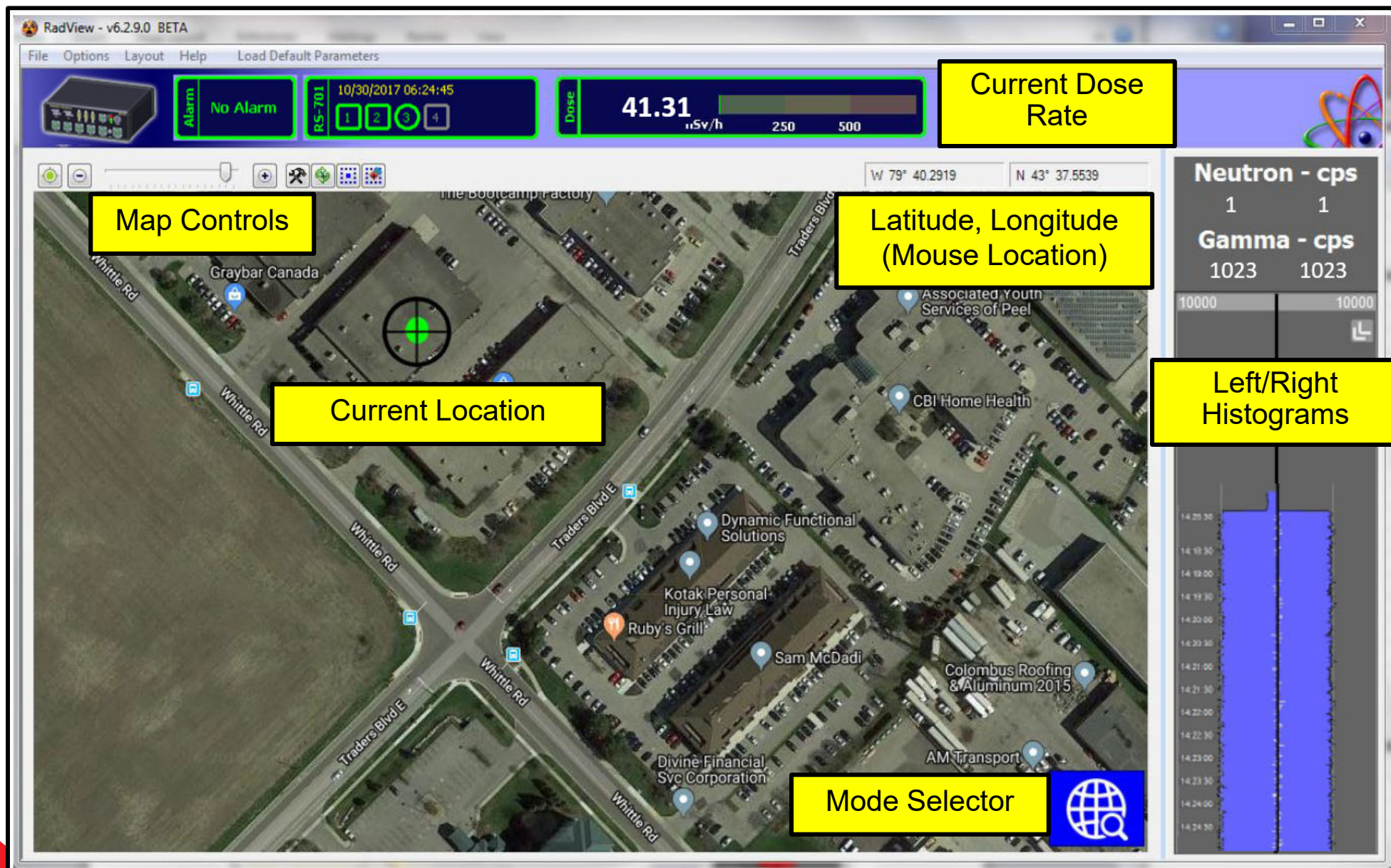
Module ID



Default screen

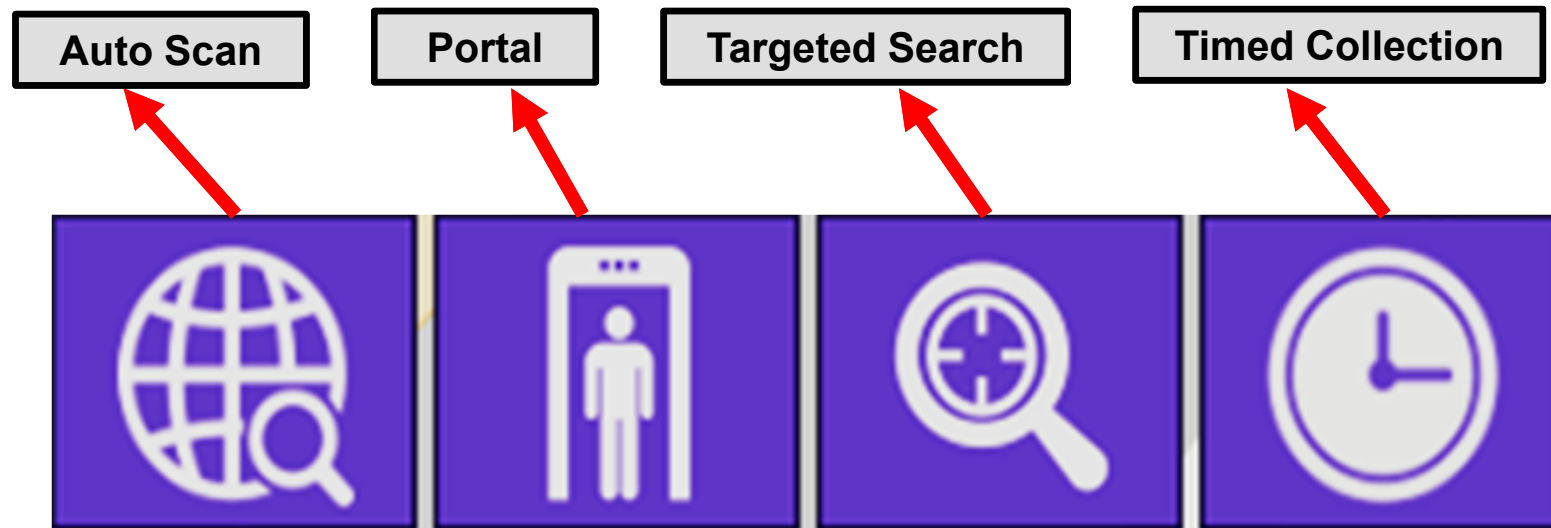


RadView (continued)



RadView (continued)

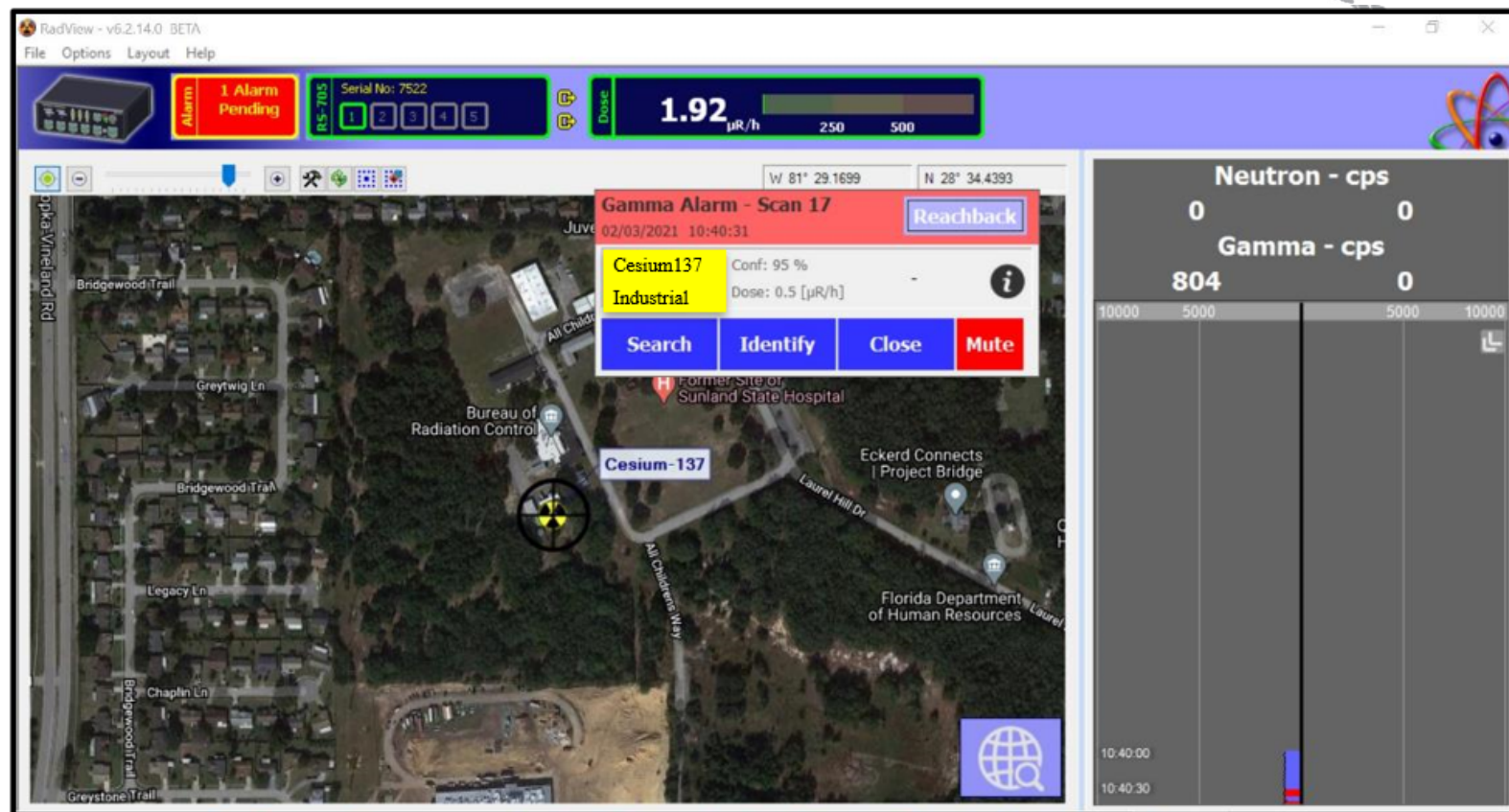
Modes:



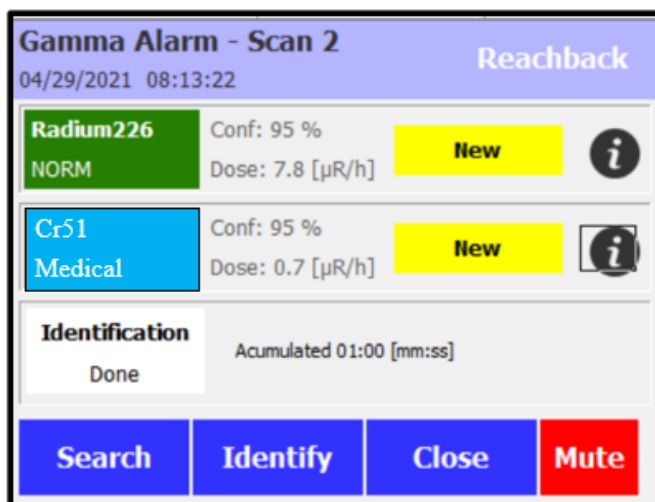
RadView (continued)

Alarms are immediately identified.
Click **Mute** to acknowledge.

You can click **Identify** to take a longer dwell.



Multiple isotopes can be identified.



RadView (continued)

Neutron	31.00 [cps]
Industrial	Cs-137
Medical	I-131
NORM (COSM-0)	Ra-226
Suspicious	Am-241
SNM	Pu-239

Click on the “i” for more isotope information.

Cesium137
Industrial

Conf: 100 %
Dose: 19.8 [μR/h]

i

Click on **Reachback** to send alarm information.

Gamma Alarm - Scan 21
10/29/2017 15:10:07

Reachback

Cesium137
Industrial

Conf: 100 %
Dose: 24.7 [μR/h]

Verified

i

Identification
Done

Accumulated 01:00 [mm:ss]

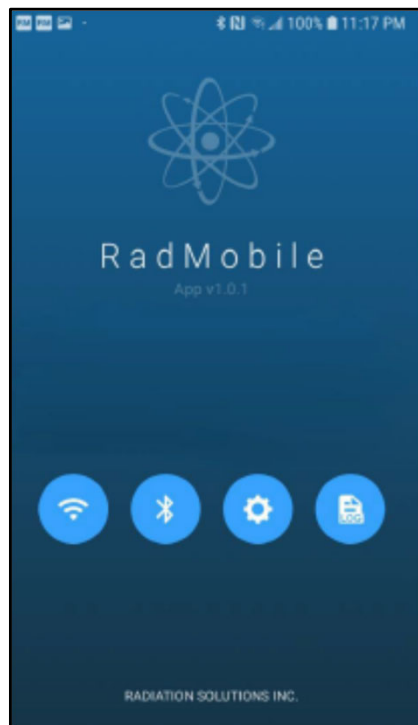
Search

Identify

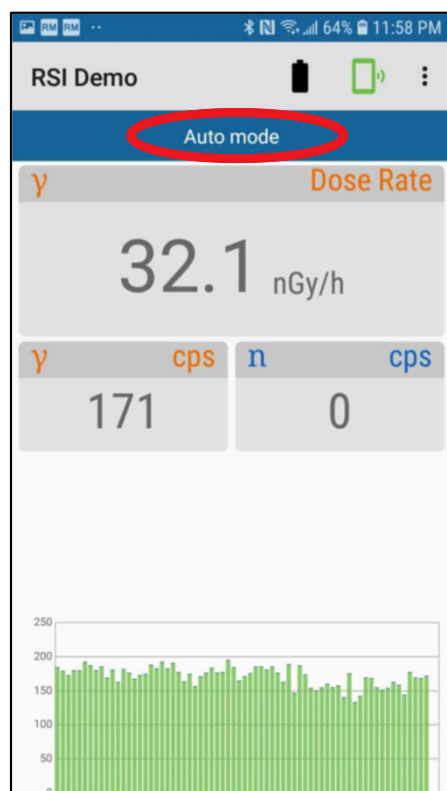
Close

Mute

Send E-Mail
Save to folder
Details ▶



Compatible with Android and iOS.



Three operating modes:

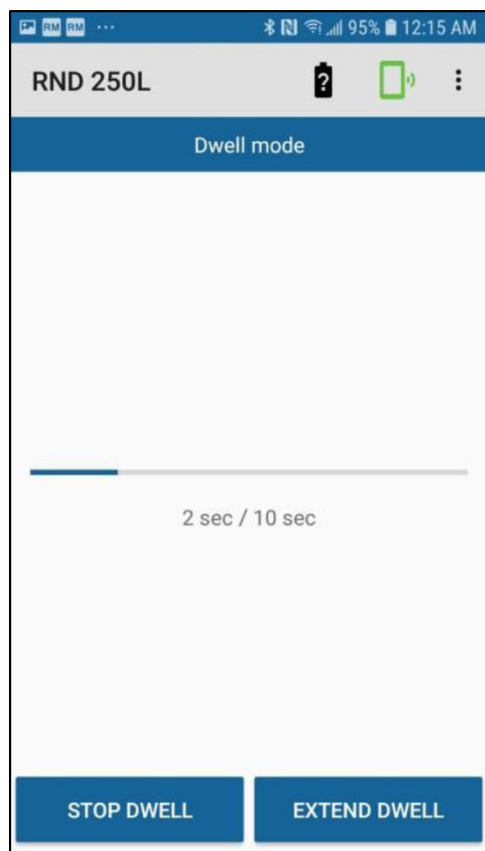
1. Auto

- Displays dose rate, total gamma counts, and neutron counts per second (cps).

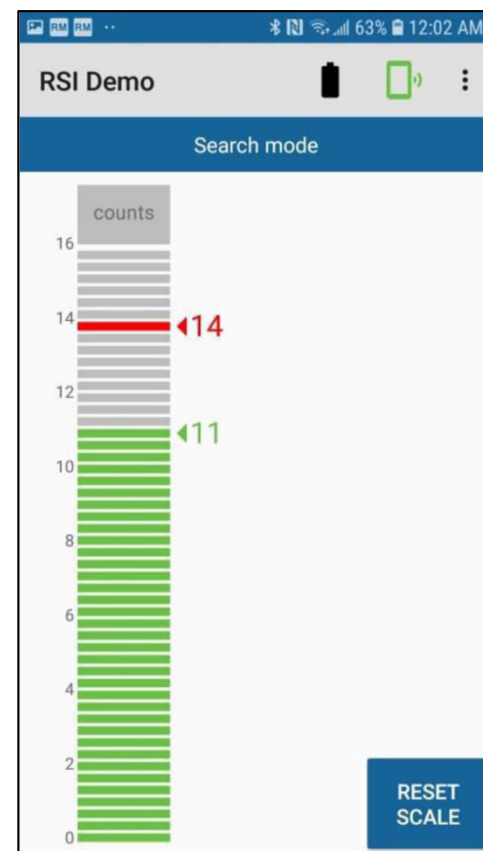
RadMobile (continued)



2. Dwell – Timed collection followed by automatic isotope analysis.

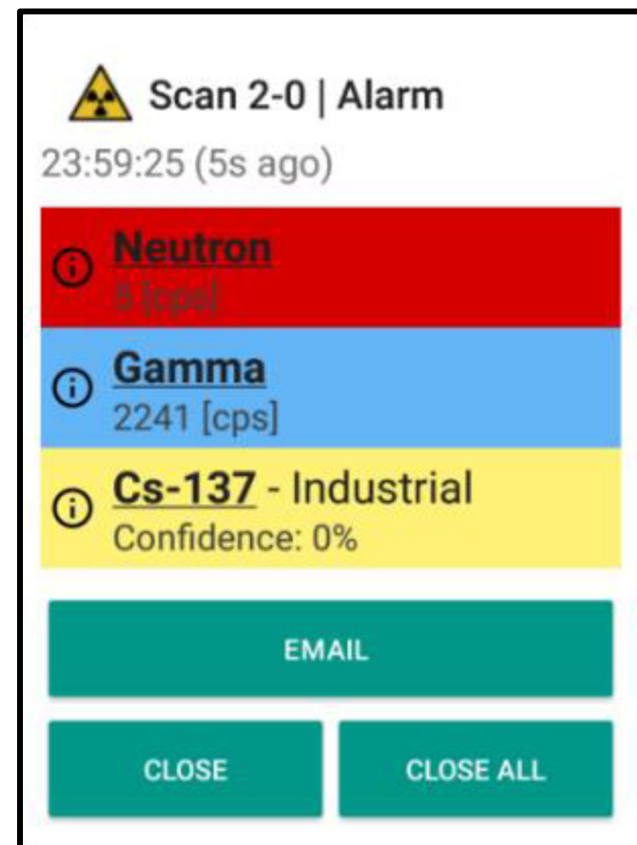


3. Search – Used to localize a source of radiation.



Alarms:

- Tap **MUTE** button to acknowledge.
- Choose from the following options:
 - **EMAIL** to send alarm information.
 - **CLOSE** to close a single alarm.
 - **CLOSE ALL** to close all alarms.



Activity: User Interfaces Navigation



- Practice using the three user interfaces by navigating to different tabs, changing views, and displaying different menus.
- You have 1 hour to complete this activity.



Summary



In this module, we learned about:

The basic functionality of RadAssist

How to navigate RadView

The use of the RadMobile application