

# Frontline<sup>®</sup> Sodera<sup>®</sup> Bluetooth<sup>®</sup> Protocol Analyzer



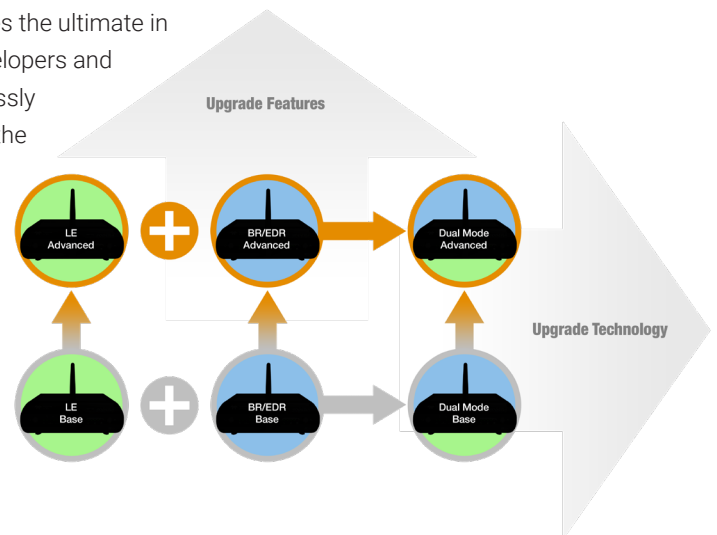
## Key Features and Benefits

- Flexible configuration options available
- Capture ALL over-the-air and chip level (HCI) Bluetooth packets
- Bluetooth / Wi-Fi Coexistence with Frontline 802.11 Analyzer
- Every Bluetooth channel captured concurrently for decryption and analysis at any time
- Faster root cause analysis of audio issues with the integrated Bluetooth Audio Expert System
- All released Bluetooth profiles and protocols supported along with early access for pre-released features
- Intuitive analysis of multiple wireless devices and connections
- User-replaceable battery and small footprint lets you work when and where you need to
- Software defined radio architecture is ready for future Bluetooth updates
- Support for CSRMESH and Bluetooth mesh technology
- Spectrum analysis helps identify potential RF conflicts

Supporting all profiles and protocols through Bluetooth 5.3 and beyond, Teledyne LeCroy's Frontline Sodera concurrently captures all over-the-air and HCI (with provided cables) Bluetooth packets (BR/EDR/LE) across all channels, including paging, inquiry, secure connections, secure simple pairing, and data exchange packets. Flexible licensing allows the user to have the best tool for the job, with the option to upgrade when needs change.

Frontline Sodera provides the ultimate in portability, allowing developers and QA engineers to effortlessly capture data not just in the lab, but in automotive and other remote settings. "Excursion Mode" allows the developer to capture all Bluetooth traffic in the air with the push of one button, completely independent of a PC connection. Data can

be captured in the real-world setting, then decrypted and analyzed back at the lab. Supported by Frontline Sodera's compact size and replaceable battery, testing in automobiles and other power-sparse environments becomes not just possible, but absolutely convenient.



## Intuitive Industry-Leading Software to Accelerate Your Tests

Teledyne LeCroy's Wireless Protocol Suite combines all the power and maturity of Frontline's protocol analysis software with a fresh streamlined interface that brings all analysis tools into a single docking framework window which you can customize to your own preferred way of working.

It's all there; message sequence charts, packet error rate statistics, throughput graphs, timelines, and all of the other views into these complex technologies are now available as dockable windows, and are supported by the mature and robust decodes that come from the decades of experience in wireless protocol analysis embodied by Teledyne LeCroy's Frontline brand of protocol analyzers.

## Specifications

- **Power**  
9-17 VDC
- **Dimensions**  
6.25" wide X 2.125 tall" X 6.5 deep"  
158.75 mm X 53.975 mm X 165.1 mm
- **Weight**  
2.2 lbs
- **Bus Type**  
USB Standard Type-B
- **Operating Frequencies**  
2402 MHz – 2480 MHz
- **Sensitivity Range**  
-85.0 dBm to +10 dBm
- **Supported Demodulators**  
BR/EDR and LE (GFSK,  $\pi/4$  DQPSK, 8DPSK)
- **Timestamp Resolution**  
125 ns
- **Operating Temperature**  
5° to 35° Celsius (41° to 95° Fahrenheit)
- **Humidity**  
Operating: 10% to 90% RH (noncondensing)
- **Regulatory Compliance**  
PSE FCC part 15 B  
CE NRTL  
ARIB T-66 EMC  
EN 60950
- **OS Supported**  
Windows 10, 11
- **USB Port**  
USB 2.0 or USB 3.0 High-Speed

Frontline Sodera is available in 6 configurations.

This allows you to select the best product for your needs, and gives you a flexible upgrade path.

|                                                      | Base Configuration |                    |           | Advanced Configuration |                    |           |
|------------------------------------------------------|--------------------|--------------------|-----------|------------------------|--------------------|-----------|
|                                                      | Single Mode LE     | Single Mode BR/EDR | Dual Mode | Single Mode LE         | Single Mode BR/EDR | Dual Mode |
| Decode all application layers                        | •                  | •                  | •         | •                      | •                  | •         |
| BR/EDR support                                       |                    | •                  | •         |                        | •                  | •         |
| Capture and decode of all Bluetooth® le technologies | •                  |                    | •         | •                      |                    | •         |
| Simultaneous capture of all Bluetooth LE PHYs        | •                  | •                  | •         | •                      | •                  | •         |
| Full Mesh support                                    | •                  | •                  | •         | •                      | •                  | •         |
| Wideband for easy device selection and data capture  | •                  | •                  | •         | •                      | •                  | •         |
| Capture and decode unlimited complex topologies      | •                  | •                  | •         | •                      | •                  | •         |
| Post-capture decryption                              | •                  | •                  | •         | •                      | •                  | •         |
| On-board battery                                     | •                  | •                  | •         | •                      | •                  | •         |
| Software defined radio (evolves with spec changes)   | •                  | •                  | •         | •                      | •                  | •         |
| Includes Bluetooth Audio Expert System               | •                  | •                  | •         | •                      | •                  | •         |
| Wi-Fi Coexistence *                                  |                    |                    |           | •                      | •                  | •         |
| Spectrum analysis                                    |                    |                    |           | •                      | •                  | •         |
| Logic analysis                                       |                    |                    |           | •                      | •                  | •         |
| Excursion mode for captures without attached PC      |                    |                    |           | •                      | •                  | •         |
| UART and USB HCI support                             |                    |                    |           | •                      | •                  | •         |

\* Requires connection to Frontline 802.11 Protocol Analyzer

## PREMIUM MAINTENANCE - Frontline Sodera

Premium Maintenance for Frontline Sodera Dual Mode Bluetooth Protocol Analyzer ensures that your product is up to date with the latest software updates and features. Your Frontline Sodera product comes with one year of Premium Maintenance and includes:

- Updates addressing changes to the core Bluetooth Specification
- New software features
- New decodes
- Product bug fixes

## Ordering Information

### Frontline Sodera Configuration Options

Sodera Single-mode LE Base  
Sodera Single-mode BR/EDR Base  
Sodera Dual-mode Base  
Sodera Single-mode LE Advanced  
Sodera Single-mode BR/EDR Advanced  
Sodera Dual-mode Advanced  
Upgrade Base to Advanced  
Upgrade Single Mode to Dual Mode

### Product Code

2014-10004-001  
2014-10005-001  
2014-10002-001  
2014-10004-000  
2014-10005-000  
2014-10002-000  
2014-22400-000  
2014-22500-000



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