KEOLABS
your challenges, our solutions

ProxiSPY Quest Contactless Spy

Advanced diagnostic becomes simple. Trace and debug contactless technologies for smartcards, mobiles, readers, and any contactless devices, from the analog to the application layers.

ProxiSPY Quest™ is the most advanced laboratory tool to trace and analyze your contactless communication and troubleshoot the interoperability issues in real-time.

It can be used in **transport**, **mobile**, and contactless **payment** fields to analyze and debug new products and ensure inter-device compatibility.

ProxiSPY Quest™ includes a robust, reliable and non-intrusive probe that supports various standard-specific requirements (EMVCo, ISO, ICAO, NFC Forum, and more).

Its technology provides an efficient and complete analysis, from the analog to application layer.

KEY FEATURES

- Non intrusive probe
- Advanced I/Q demodulation
- Automatic decoding: no need to preselect the protocol
- Precise analog spy (25pts / per clock period)
- API for test bench usage
- Real-time triggers, 3 digital I/Os
- Transaction advanced analyzer (timing, application)
- Data logger
- Supports natively all the protocols and speeds

QUEST TOOLS

- Analog Viewer
- Digital Viewer
- Communication Timing Analyzer
- PCD Waveform Analyzer

COMMUNICATION INTERFACES

- USB
- General purpose I/O
- TCP-IP

SUPPORTED PROTOCOLS

- ISO 14443 A/B up to 6.8Mbps (VHBR ASK)
- ISO 15693 all modes
- ISO 18092 (Peer 2 Peer, Passive, and Active)
- JISX 6319 FeliCa™
- NFC Forum (ECMA 340 NFC IP-1, ECMA 352 NFC IP-2)
  - > LLCP / SNEP
  - > NDEF
  - > V-card
- Topaz
- MIFARE™
- B' (Calypso Innovatron)

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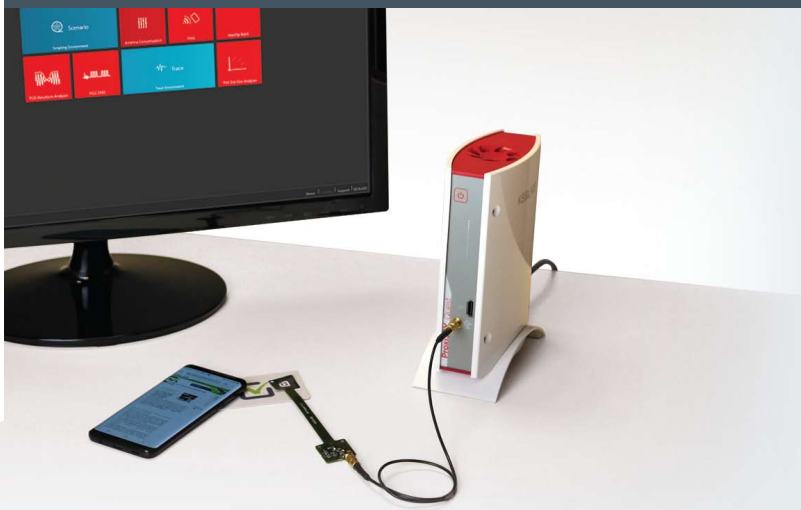
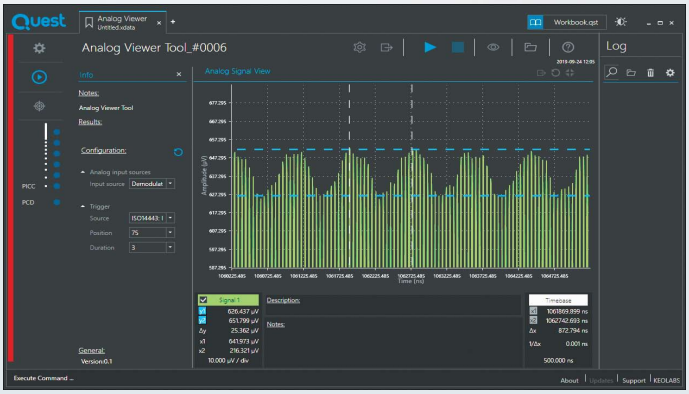
Quest
PERFORMANCE EXPLORER



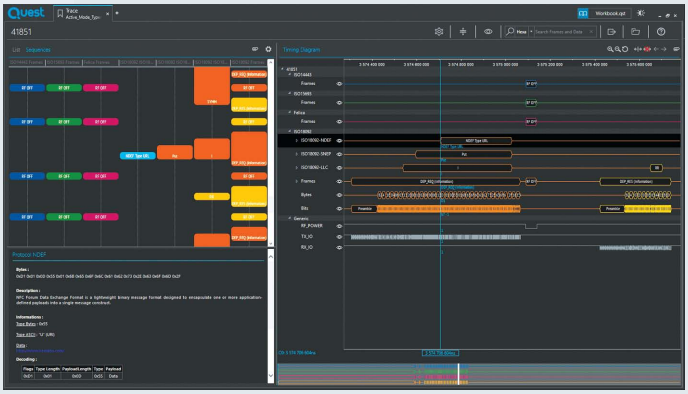
ProxiSPY Quest™ completes the new Quest testing tools range dedicated for professionals to diagnose and analyse smart card systems.

KEOLABS' new **Quest line** offers a broad array of testing **tools** to provide the most accurate performance insights and to help users clearly understand and overcome problems.

Thanks to its new software environment, **Quest**, it has never been so simple to understand interoperability problems and characterize devices performances.



Analog Viewer



Digital Viewer

QUEST TOOLS

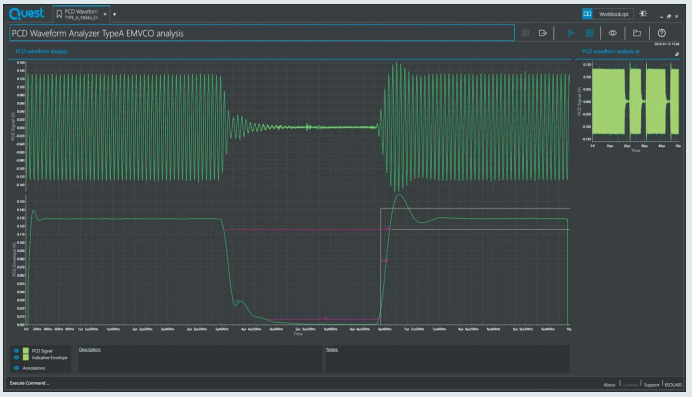
- **Analog Viewer:** Oscillope-like display of easily captured analog frames

- **Digital Viewer:** Advanced protocol analyzer enriched with dynamic protocol documentation
  - > List and sequence view
  - > Statistical analysis
  - > Protocol warning/error easily identified
  - > Custom annotation
  - > Filtering and export features

- **PCD Waveform Analyzer:** Automated PCD waveform capture and analog timing extraction. Main standard compliancy checking (supports ISO 14443, NFC Forum and EMVCo analysis)

- **Communication Timing Analyzer:** In situ automated extraction of digital timings (communication and processing time) for easy analysis of cumulative, detailed statistics

Communication Timing Analyzer



PCD Waveform Analyzer