Capture contactless transactions on the go

ENSURE PRODUCT READINESS
Contactless infrastructure is developing quickly worldwide. To support and facilitate this expansion, banks, payment systems, smart card / terminal vendors and integrators need to provide products and solutions that are interoperable.

The ability to perform testing internally to easily and rapidly assess whether a product is ready for market is a major step in the product development process.

A PORTABLE AND RELIABLE TOOL
Smartspy Contactless is an innovative handheld solution to observe, record and analyze communications between contactless cards/objects and readers without disrupting transactions.

The tool records the demodulated RF signal of an ISO/IEC 14443-A / B or ISO / IEC 18092 based contactless interface and interprets the transport and application layer protocols. Additional level of APDU command, response and TAG interpretation is available for EMV, MasterCard, NFC Forum and Visa applications. Users can also define custom APDU interpretation rules for their own applications.

It is designed for banks, payment systems, smart card / terminal vendors and integrators. It enables product developers and system integrators to easily check, debug and validate their smart cards, NFC tags, ePassports, mobile devices and readers at any location during the integration process.

By identifying interoperability issues quickly and easily, Smartspy Contactless accelerates the launch of your product and ensures that it operates as intended once in the field.

Handheld use in the field with an SD memory card and lithium-ion battery.

Speed up your integration process and product certification.

Receive information on every level of the transaction, from the exchange of bytes to the transport and application layer protocols.

Intuitive menu.

Easy-to-read display screen.

ABOUT SMARTSPY CONTACTLESS

The software analyzer abstracts the physical and transport protocol layers by clearly displaying the transmitted commands at the application level (ISO / IEC 7816-4), making the behavior of your application easily analyzed. It also provides support for the analysis of the transport protocol layer to diagnose low-level protocol.

The tool displays the waveforms of the captured data. The card/terminal processing times and the command / response transmission times are automatically computed to provide the detailed performance figures of the transactions.

The optional performance test module is EMVCo certified and improves the analysis of the transaction duration by capturing the terminal flashing LED and / or beep that indicates the end of a transaction.

The optional antenna for mobile phone improves the capture of transaction for active device used with terminal.

### Protocol test library

<table>
<thead>
<tr>
<th>Smartspy Contactless analyzer software</th>
<th>Supported protocols for spying</th>
<th>Supported protocols for analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Transferring transaction data and remote control use</td>
<td>• ISO / IEC 14443 Type A and B</td>
<td>• Transport layer: ISO / IEC 14443-4, NFCP-1, Innovatron, Felica</td>
</tr>
<tr>
<td>• Protocol and performance analysis</td>
<td>• ISO / IEC 18092 (NFCIP-1)</td>
<td>• Application layer: ISO / IEC 7816-4, NFC Forum Tags (Type 1 – 4)</td>
</tr>
<tr>
<td>• Waveform display</td>
<td>• Felica (Type C)</td>
<td>• Additional level of APDU analysis for: EMV, Visa VCPS, MasterCard M/ Chip PayPass &amp; Mobile PayPass</td>
</tr>
<tr>
<td>• Support for English and French</td>
<td>• Innovatron (Type B')</td>
<td></td>
</tr>
<tr>
<td>languages</td>
<td>• Bit rates supported: 106, 212, 424, 848 kbit/s</td>
<td></td>
</tr>
</tbody>
</table>

### What’s in the box?

**Smartspy Contactless comes with all necessary hardware and accessories to run the tests**

- Smartspy Contactless analyzer software.
- Smartspy Contactless device with 2GB SD memory card.
- ID-1 & ePassport cardholder to enable tests at precise distances.
- 1 antenna for cards/ePassports.
- Antenna and USB cables.
- AC adaptor.

### Key features

#### Size and weight
- 95mm x 145mm x 28mm | 270g.

#### LCD display for device control and status
- Built-in rechargeable lithium-ion battery with 2 hours operation.
- Charging via AC adaptor.

#### Performance measurements
- Card/terminal processing times.
- Command/response transmission times.
- Optional performance test module for terminal LED/beep.

#### Display waveforms
- Logic state, bit, byte and timing sequences.
- Sound and light events from performance test module.

#### Output file formats
- Protocol analysis: TXT and PDF.
- Performance analysis: XLS (Excel).
- Waveforms: JPEG.