



RS DYNAMICS®

Science for Homeland Safety

miniEXPLONIX 3

THREE NEW
OPERATIONAL MODES
FOR ALL APPLICATIONS !



the **smallest** (pocket size)
the **fastest**
the **lightest**
the **most sensitive**
the **most robust & reliable**
the **easiest to operate**
the **most affordable**

... explosive agents detector/sniffer

RS DYNAMICS

Earth Science & Security Equipment
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miniEXPLONIX 3

- Three new operational modes for highest sensitivity and widest detection spectrum:
 - new Wide Range Mode detects all the explosives (incl. TATP) with greatly improved sensitivity
 - new Advanced Mode for the highest sensitivity and lowest false alarm rate
 - new TATP and home-made explosives mode
- Extremely fast cleaning
- The highest operational robustness
- The most user friendly and easy to operate

Sampling & detection

- Semi-Selective Infra-Red Continuous Vapour Mode with instant reading
- Particulate Mode using sampling strips with Infra-Red collection and instant reading
- Colour display with graphic (bar-graph) and numeric output
- Acoustic and Red-Flashing visual alarm
- One-button operation
- No "sampling - analysis" intervals required, instrument works in continuous reading mode!
- Internal flash-disk for tens thousands measurements

Detection parameters

- Detects ALL the EXPLOSIVES incl. "home makes" down to nanogram level
- Excellent detection of all non-volatile explosives due to IR continuous Vapour Mode
- Detection time: about 1 second
- Extremely resistant to interfering chemicals and organic compounds, perfumes, etc.
- Excellent false alarm rate

Cleaning

- Typically within few seconds even after high exposure

Start-up / warm-up time

- Cold start typically within 5 to 15 seconds

Physical

- Built-in WiFi module for full remote control/data download/factory service (optional) via the Internet
- The whole day operation for one battery charge
- Easy exchangeable battery, can be supplied with two batteries (optional)
- The most advanced military category LiPol battery cells for low weight, high capacity and long life
- Robust belt holster for comfortable whole-day wearing (similar size to gun holster)
- Extremely robust & highly ergonomic case made of advanced carbon fibers plastics for high impact resistance and light weight
- Designed & manufactured for heavy duty military use with highest level of reliability
- "Falling water" resistant (IP42)
- Heavy Duty carrying case for the instrument with all accessories

Weight

Without battery pack: 0.380 kg
With battery pack: 0.685 kg

Size

Length: 249 mm
Height: 48 mm minimum - 55 mm maximum Width: 65 mm

Operation

- Extremely user-friendly and easy to operate - using only one button. First press: start-up, second press: measurement, third longer press: switch-off.
- All operational parameters configurable from PC; Password protected.
- PC connection: WiFi, USB 2.0, RS 232

Training

- No special operator's training required, easy operation understandable to any operator without special qualification
- Easy and simple training of expert/commander to set-up operational parameters via PC

Remote control

- All operations remotely controllable via PC control software through WiFi, USB 2.0, RS 232 or Internet (TCP/IP Protocol) both ways
- Ideal for robotic applications, one-minute installation
- Remote data download and configuration

Factory remote checking, service and calibration

- Available through any Internet connection (WiFi or cellular or satellite or cable network connection)
- Capability to remote factory check & fix of all small problems and calibration.

Power supply

- One LiPol Battery pack (two packs optional)
- Battery charger operable from 100 to 250 V AC included
- Car adapter - CLA Charger 12V DC (optional)

Affordable Consumables

- Detector cartridge (enough for 6000 to 10000 measurements)
- RS DYNAMICS Sampling Strips

Environmental

- No radioactive source inside the unit
- No toxic materials inside the unit (excl. consumables -batteries, det. cartridges)
- Product fully recyclable at supplier side
- Operating environment temperature: -10 to +54 °C (conditions specified in User Manual)

