# *ANNEX II + III:* TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

**Contract Title: Supply of border control and forensic equipment for EUAM Ukraine**

**Lot 2: Border Control Equipment**

**Publication reference: EUAM-24-75, Lot 2**

**Column 1-2 should be completed by the Contracting Authority**

**Column 3-4 should be completed by the tenderer**

**Column 5 is reserved for the evaluation committee**

Annex III - the Contractor's technical offer

The tenderers are requested to complete the template on the next pages:

* Column 2 is completed by the Contracting Authority shows the required specifications (not to be modified by the tenderer),
* Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words “compliant” or “yes” are not sufficient),
* Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation.

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Technical offers that do not permit to identify precisely the models, their type, brand, article numbers and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offered specifications.   
Link to the website where the description of the proposed model exists is not acceptable. It is obligatory to add the detailed description of specification offered.

Where the tenderer has offered an “equivalent” item to a brand and model indicated in these technical specifications, it will be the tenderer’s responsibility to prove the claimed equivalence, for example by appending to his offer for the respective item a comparison table with the features and functionalities of the item mentioned by its brand name and model in these specs and the corresponding features and functionalities of the product offered by the tenderer.

| **Item number** | **Specifications Required** | **Specifications Offered**  **(Brand, model, technical characteristics of the offered item)** | **Notes, remarks,**  **ref to documentation** | **Evaluation Committee’s Notes** |
| --- | --- | --- | --- | --- |
| **1** | **Vehicle inspection tool set**  ***Minimum content:***   * Socket Wrench Set: 6-32 mm jaw opening * Open-End Wrench and Ring Spanner Set: 6-32 mm jaw opening * Special Tools for Opening Cabinets, Doors, and Hatches * Internal Hex Key Set: 1.5-10 mm * Hex Keys: 162 mm and 305 mm * Battery-Powered Screwdriver: Includes charger and set of replaceable heads * Electric Impact Drill: 220V * Drill Bit Sets: For metal and wood * Multi-purpose Screwdriver * Screwdriver Set: Cross-shaped and straight * Flat-Nose Pliers * Round-Nose Pliers * Vise Grip Wrench * Locksmith Hammers: 0.2 kg and 1 kg * Hacksaw for Metal: Includes 2 changeable saw blades * Scissors for Metal * Locking Pliers: 250 mm * Pliers for Wire Ropes and Bolts: 450 mm * Chisel: 16x300 mm * Hydraulic Jack: Up to 5 tons capacity * Indicator (Tester) Screwdriver: Up to 500 V * Claw Hammer: With rubber grip * Mini Crowbar * Measuring Tape: 7 m and 15 m * Battery-Operated Headlamp: 3xR03 * Shockproof Torch: Battery-operated, 2xR20, includes spare parts * Universal Battery Charging Device * Electric Extension Cords: 1.5 m for internal work (4 sockets), 15 m for external work * Ultrasonic Distance Measurer: With laser pointer * Work Gloves * Tool Belt * Storage Cases: Big plastic and small plastic case   **Additional requirements:**   * Tools must have an anti-corrosion coating or be made of non-corrosive metal. * Tools must have ergonomic handles with non-slip coating. * Power tools with (not less than) IP54 protection and shockproof housing * Warranty for tools and power tools: not less than 12 months |  |  |  |
| **2** | **Metal inspection probe – sampler with rubberized or plastic handle**  **Purpose:** Designed for inspecting small and loose cargo, detecting foreign objects and packages, and enabling sample collection from the controlled environment. The probe is versatile, offering multiple connection options, including different handles, probes, and extensions for enhanced functionality.  **Key Specifications:**   * Probe Length: Minimum of 1000 mm when fully extended * Handle Material: Rubberized or plastic for comfortable and secure grip * Versatile Design: Compatible with various probe extensions and handles for adaptable use in diverse inspection scenarios * Sampling Capability: Allows for efficient collection of samples from controlled environments * Durability: Constructed to withstand repeated use in challenging environments   This tool is essential for cargo inspection, offering flexibility, durability, and the ability to obtain samples or detect concealed items during security operations.  **The probe must have an anti-corrosion coating or be made of non-corrosive metal.** |  |  |  |
| **3** | **Video Probe Borescope (XL Detect+ or equivalent)**  **Purpose**: Portable device for internal visual inspection of vehicles, aviation, rail, and industrial equipment. Allows diagnostics and assessments in hard-to-reach areas without disassembly.  **Technical Specifications**:  **Display**   * + Type: Color LCD screen   + Minimum diagonal size: Not less than 5 inches   + Resolution: Not less than 640×480 pixels   **Insertion Probe**   * + Construction: Flexible and/or articulating   + Diameter: 4–6 mm (main), 8.5 mm (optional)   + Length: Not less than 5 meters   + Bending angle: Not less than 120° in at least one direction   + Protection: Not lower than IP65   **Camera**   * + Sensor type: Color CCD or CMOS   + Resolution: Not less than 440,000 pixels   + Features: Capable of operating in low-light conditions   **Illumination**   * + Type: Integrated LED lights   + Control: Manual or automatic brightness adjustment   + Effective range: Not less than 3 meters   **Memory and Recording**   * + Internal memory: Not less than 8 GB   + Expansion: Support for USB drives or microSD cards   + **Recording formats**:     - Photo: JPEG or equivalent     - Video: MPEG-4 or equivalent   **Power Supply**   * + Battery: Not less than 4 hours of continuous operation   + Additional: Ability to operate from a 220V power source   **Interfaces**   * + Must have at least one of the following:     - USB     - HDMI     - Wi-Fi     - Memory card slot   **Carrying Case and Protection**   * + Case: Shock-resistant and water-resistant   + Maximum weight (including case): Not more than 9 kg   **Operating Conditions**   * + Operating temperature: Not less than -10°C and not more than +50°C   + Humidity: Up to 95% (non-condensing)   **Language**: Interface and documentation: English or Ukrainian (preferred)  **Warranty:**  Minimum 12-month warranty with service support and component replacement in case of manufacturing defects. |  |  |  |
| **4** | **Flashlight (Fenix C7 or Equivalent)**  High-performance flashlight designed for professional use in demanding environments, including security, emergency response, maintenance, and search operations.  **Key Specifications:**  **Brightness:** Not less than 1500 lumens  **Beam Distance:** Minimum 450 meters for long-range illumination.  **Runtime:**   * On lowest brightness: At least 50 hours continuous use.   **Lighting Modes:**   * Multiple brightness levels (from ultra-low to maximum). * Strobe mode and SOS mode for emergency signaling. * Eco mode for energy-saving operation and extended runtime**.**   **Power Source:** Rechargeable Li-ion battery (capacity not less than 5000 mAh).  **Charging:**   * USB Type-C charging for fast and efficient recharging. * Charging time: Fully recharged in 4 hours or less.   **Additional Features:**   * Lanyard included for easy carrying. * Overheating protection to prevent damage from prolonged use. * Switch for quick mode changes.   **Waterproof Rating:** IP68 or higher.  **Impact Resistance:** Drop-resistant from 1 m or more.  **Temperature Range:** Operating temperature from -20°C to +50°C.  **Weight:** Not more than 350g.  **Material:** Aircraft-grade aluminum body for durability and corrosion resistance.  **Warranty:**  At least 24-months warranty  English or Ukrainian (preferred) language **user manual** |  |  |  |
| **5** | **Vehicle Diagnostic Scanner (Autel MaxiDiag MD806 Pro or equivalent)**  A high-performance diagnostic tool designed for comprehensive vehicle diagnostics. Ideal for automotive professionals to diagnose, troubleshoot, and monitor vehicle systems in real-time across various makes and models.  **Key Specifications:**  **Diagnostic Coverage:**   * Full system diagnostics for all vehicle modules, including:   + Engine, Transmission, ABS, Airbag (SRS), Suspension, Fuel System, HVAC, Audio, Lighting, Battery.   + Hybrid/EV support: Basic Battery Management System (BMS) diagnostics.   **Service Functions:**   * Oil Reset, EPB Reset, TPMS Reset, DPF Regeneration, SAS Calibration, Throttle Matching, A/F Adjustment.   **Real-Time Data Monitoring:**   * Displays live data for all vehicle parameters. * Freeze frame data for recording snapshot data at the moment of a fault.   **OBD II Compatibility:**   * Supports all OBD II-compliant vehicles (1996+). * CAN protocol support. * Covers US, European, and Asian brands. * Supports a wide range of modern vehicle protocols, including CAN and other advanced diagnostic systems in contemporary vehicles.   **Advanced Diagnostic Functions:**   * Read/Clear fault codes. * Live data graphing. * Active component testing (injectors, relays, etc.). * Special functions: Oil reset, EPB, DPF, BMS, SAS calibration.   **Diagnostic Reports:**   * Ability to generate, save, and print detailed diagnostic reports via PC connection. * Ability to email reports directly from the device.   **Screen:**   * Not less than 4" color LCD screen with a resolution of 800x480 pixels or higher.   **Connectivity:**   * Mini USB 2.0 port for data transfer and software updates. * Micro SD card for storage and backup. * Optional wireless support (Wi-Fi/Bluetooth).   **Software and Updates:**   * Free Updates. * Compatible with Windows and macOS for easy data transfer and report generation.   **Power Source:**   * **Rechargeable lithium-ion battery with at least 8 hours of continuous use.** * **USB charging for fast and efficient recharging.** * **Charging time: Fully recharged in 4 hours or less.**   **Additional Features:**   * Switch for quick mode changes. * Built-in flashlight for use in low-light conditions. * Overheating protection to prevent device damage. * Battery Level Indicator for real-time monitoring of battery status.   **Durability:**   * Rubberized casing. * Drop-resistant (not less than 1.5m).   **Temperature Range:**   * Operating temperature from -10°C to +50°C.   **Weight and Size:**   * Not more than 1 kg for portability and ease of use.   **Included in the Package:**   * OBD II cable. * USB cable. * Micro SD card (not less than 16 GB). * Carrying case. * Quick start guide.   **Language:**   * Interface and documentation: English or Ukrainian (preferred).   **Warranty:**   * Minimum 12-month warranty with free service support and component replacement in case of manufacturing defects. |  |  |  |
| **6** | **Under vehicle inspection mirror**  **Purpose**: This tool is essential for inspecting the undersides of vehicles such as cars, trucks, and buses, helping to identify hidden damage, contraband, or other issues that require close examination of hard-to-see areas.  **Key Specifications**:   * Telescopic Rod: Extendable metal rod, minimum length of 1-2 m, for easy adjustment and access to under-vehicle areas, with a locking mechanism to secure the rod in place at the desired length for stability during inspection. * Hand Grip: Ergonomic plastic or rubberized grip for comfortable handling and control * Parabolic Mirror: Provides a wide viewing angle for better inspection of vehicle undercarriages, made of shatterproof polycarbonate with an anti-glare coating to ensure clear visibility and durability. * Flashlight: Integrated flashlight for illumination in low-light or dark conditions   **Included in the Package**:   * Inspection mirror with telescopic rod * Flashlight with batteries   **Applications**: Ideal for law enforcement, border control, and vehicle inspection centers for inspecting vehicle undersides for hidden items or structural issues. This tool allows for efficient and detailed inspection without the need for vehicle lifting equipment. |  |  |  |
| **7** | **Contraband Detection Kit (CSECO CE-40 or Equivalent)**  **Purpose:** This comprehensive kit is designed for effective detection of concealed contraband across various environments. Ideal for use in security, law enforcement, and customs inspections, the kit includes advanced tools for detecting hidden items in vehicles, cargo, and other containers.  **Components and Key Specifications:**   1. **Videoscope (Perfect Vision V20 or Equivalent)**    * **Probe**: Flexible, fuel-resistant, and durable for harsh environments.    * **Display**: Color LCD, minimum 5-inch size with a resolution of 640×480 pixels or higher.    * **Articulation**: Bending angle of at least 120° in one direction.    * **Power**: Rechargeable batteries with SD card slot for photo/video capture.    * **Waterproof**: IP67 or equivalent rating for water and dust resistance. 2. **Density Meter (Buster K910B or Equivalent)**    * **Technology**: Detects concealed contraband by measuring density differences.    * **Accuracy**: ±0.02 g/cm³, with alarm for significant density changes.    * **Power**: Rechargeable battery, capable of at least 8 hours of continuous operation.    * **Calibration**: Automatic self-calibration function to ensure reliable performance. 3. **Laser Rangefinder (Bosch GLM 50 or Equivalent)**    * **Range**: Minimum 50 meters, with accuracy of ±1.5 mm for precise measurements.    * **Display**: Backlit (at least) 2-inch LCD for visibility in various lighting conditions.    * **Battery Life**: At least 8 hours of continuous use on a full charge.    * **Units**: Metric system, memory for storing measurements. 4. **Telescoping Inspection Mirror with Flashlight (CSECO PM-10 or Equivalent)**    * **Length**: Telescoping shaft, minimum 1 meter, with adjustable angle for versatility.    * **Mirror Size**: Minimum 80 mm, made from unbreakable polycarbonate.    * **Lighting**: Integrated LED flashlight (minimum 100 lumens) for enhanced visibility in dark or enclosed spaces. 5. **Heavy Duty Expandable Steel Inspection Probe Kit (CSECO P-41X or Equivalent)**    * **Probes**: Serrated edges for efficient sample collection and inspection.    * **Reach**: Extendable to at least 1.4 meters.    * **Extension**: Positive locking mechanism for secure use during inspections. 6. **Pocket Inspection Probes (Set of 6) (CSECO PN-30 or Equivalent)**    * **Material**: Stainless steel retractable probes designed for inspecting small packages or tight spaces.    * **Types**: Includes multiple tip options (hook, scoop, needle) for various inspection tasks. 7. **Personal Inspection Tool Kit with Holster (CSECO CT-PTK or Equivalent)**    * **Tools Included**: Multi-purpose hand tools, LED flashlight, and inspection probe.    * **Storage**: Includes a holster for easy and convenient carrying and storage. 8. **Waterproof Carrying Case with Wheels**    * **Design**: Impact-resistant and waterproof for secure transport and storage of equipment.    * **Weight**: Maximum weight of 25 kg to ensure portability and ease of use. 9. **Extension Pole System (CSECO K9-150G or Equivalent)**    * **Reach**: Extendable for detailed inspections in difficult-to-reach areas.    * **Compatibility**: Compatible with inspection mirrors and videoscopes for versatile use.   **Environmental Requirements:**   * **Temperature Range**: Operational in environments from -10°C to +50°C. * **Humidity**: Suitable for environments with humidity levels up to 95% (non-condensing). * **Protection**: Designed to meet IP65 or higher dust and moisture resistance standards for all components.   English or Ukrainian (preferred) language **user manual** |  |  |  |
| **8** | **Handheld Metal Detector (Ceia PD140N or equivalent)**  **Description:** A versatile handheld metal detector designed for efficient body searches to detect knives, weapons, and concealed metal objects. It ensures reliable detection of stainless-steel items with immunity to electromagnetic and mechanical interference.  **Key Features:**   * **Uniform Sensitivity:** Effectively detects both magnetic and non-magnetic metals, including stainless steel. * **Alarm System:**   + Mandatory: Optical (LED) + acoustic signals.   + Optional: Vibration alert. * **Operating Time:**   + At least 50 hours * **Battery:**   + Acceptable: Replaceable AA batteries or 9V batteries.   + Preferred: Integrated Li-Ion with charge indicator * **Durability:**   + High protection for dust and water resistance.   + Impact-resistant case (preferred).   **Warranty:**  Minimum 12-month warranty with service support  English or Ukrainian (preferred) language **interface and user manual** |  |  |  |
| 9 | **Document Reader (Foster + Freeman VSC 80i or equivalent)**  **Description:**  A professional document examination system designed for the authentication of passports, ID cards, visas, driving licenses, banknotes, cheques, breeder documents, and other secure printed materials. The system combines multispectral imaging and precision optics to support the detection of alterations, counterfeiting, and document fraud. It is intended for use in border control, law enforcement, forensic, and banking environments.  **Key Features:**  **• High-Resolution Camera**  Equipped with a high-sensitivity camera (not less than 12 megapixels) capable of capturing detailed full-color or monochrome images under various light sources for accurate document inspection.  **• Full-Color Document Imaging**  Supports high-resolution color imaging of documents, including printed and handwritten content, for thorough visual analysis and comparison.  **• Infrared (IR) and Ultraviolet (UV) Imaging**  Provides IR imaging and UV illumination for detection of invisible security features such as embedded patterns, fibers, and inks.  **• Magnification**  Not less than 60x effective magnification through optical and/or digital zoom without loss of image quality, enabling clear inspection of microprinting, security threads, and latent images.  **• Lighting Configuration**  Includes coaxial, oblique, transmitted, and incident illumination in visible, infrared, and ultraviolet ranges to adapt to different document types and inspection requirements.  **• User Interface**  Operated via an integrated touchscreen or external software interface, providing live image display, capture, enhancement, and side-by-side comparison tools.  **• Power Supply**  Operates on a standard 220–240V AC, 50–60Hz power supply for compatibility with common electrical systems.  **• Connectivity**  Supports data export and integration via software interface; connectivity options (e.g. USB or Ethernet) depend on model configuration.  **• Portability**  Available with a protective, impact-resistant carrying case suitable for transport and use in field conditions (standard or optional depending on the model).  **• Optional Features**  May include MRZ reading, RFID/ePassport chip reading, barcode scanning, and facial image comparison modules for extended document and identity verification.  **Training:**  Basic training for operators, covering usage and basic maintenance.  **Warranty:**  Minimum 12-month warranty with service support and component replacement in case of manufacturing defects.  English or Ukrainian (preferred) language **interface and user manual** |  |  |  |
| **10** | **Mobile Document Checking Device (Doculus Lumus or equivalent)**  **Description:**  A portable, professional-grade device designed for fast and reliable visual inspection of identity and security documents. Ideal for detecting various document protection features such as microprinting, UV elements, holograms, and embossed textures. Suitable for use by border control, police, banks, and other institutions working with identity verification in both field and office environments.  **Key Features:**  Magnification:  Optical zoom of at least 15x for close inspection of document security elements. Additional zoom levels are acceptable.  **Optical Lens System:**  High-quality, color-true and distortion-free lenses  **Incident LED illumination (Torch Mode):**  Integrated white light LEDs for clear surface illumination during inspection.  **Ultraviolet Light Mode:**  Built-in UV light source to reveal fluorescent and invisible document features. Can be used in combination with magnification.  **Oblique (Angled) Light Illumination:**  At least one angled LED light source for enhanced visibility of raised structures, fibers, and holographic elements. Adjustable or rotatable design preferred.  **Continuous Light Mode:**  Any light source (LED or UV) must be capable of running continuously for at least 1 minute for uninterrupted inspection.  **Power Supply:**  Operates on standard AAA batteries and/or built-in rechargeable battery. Either or both options are acceptable.  **Wrist Support:**  Device includes a wrist strap or support for convenient single-hand operation and improved mobility.  **Durable Housing and Protective Case:**  Shock-resistant and dust-/moisture-resistant body. Comes with a transport case or protective pouch for field use.  **Operating Conditions:**  Battery Life: Minimum 8 hours under typical use.  **Operating Temperature**: Minimum from -10°C to +50°C.  **Weight**: Not exceeding 500 g.  English or Ukrainian (preferred) language **interface and user manual**  **Warranty:**  Minimum 12-month warranty with service support |  |  |  |
| **11** | **Portable Fingerprint Dactyloscopic Scanner**  A high-performance device designed for biometric identification and verification in critical applications such as law enforcement, border control, and civil identification programs. Built for fast, reliable, and secure performance, it integrates seamlessly with Automated Fingerprint Identification Systems (AFIS) and other security systems.  **Key Features:**   * Resolution: not less than 1000 DPI for precise image capture. * Sensor Type: Optical sensor with adaptive illumination, ensuring high-contrast images in any lighting conditions (works effectively in both dark and bright environments). * Liveness Detection: Utilizes advanced 3D structure and blood flow analysis to ensure fingerprint authenticity and prevent spoofing. * Scanning Speed: < 1 second for rapid fingerprint verification. * Durability: not less than IP65— shockproof and dustproof, offering superior protection in rugged environments. * Connectivity: USB 2.0, USB 3.0, or USB-C with optional Bluetooth support for wireless integration. * Multimodal Biometric Support: Compatible with facial recognition systems, enabling multimodal identification.   **Specifications:**   * Scan Area:   + Preferred: 50×50 mm   + Acceptable: 40×40 mm * Operating Temperature: -20°C to +50°C   **Applications:**   * Law enforcement * Border control * Civil identification programs   **Compliance:**   * Meets international biometric standards.   **Training:**  Basic training for operators, covering usage and basic maintenance.  **Warranty:**  Minimum 3-years warranty with service support and component replacement in case of manufacturing defects.  English or Ukrainian (preferred) language **interface and user manual** |  |  |  |
| **12** | **Handheld Imaging System for Detecting Drugs and Contraband (Rapiscan MINI Z® or equivalent)**  **Description** A portable handheld imaging system designed for non-intrusive inspection and detection of organic threats and contraband. It enables customs officers, law enforcement, and border security personnel to scan hard-to-reach or concealed areas—such as vehicles, furniture, walls, packages, and aircraft interiors—for narcotics, explosives, currency, and other illicit materials.  **Minimum Technical Requirements**   * Imaging technology: Backscatter or Z-backscatter X-ray, or other equivalent non-intrusive imaging method suitable for identifying hidden organic materials. * Detection capabilities: Must detect a wide range of organic threats, including narcotics, explosives, currency, and other contraband. * Image quality: Medium to high resolution sufficient for reliable identification and differentiation of concealed items. * Scan area per frame: Minimum 14 × 14 cm with the ability to manually scan larger surfaces. * Portability: Weight of device should not exceed 7 kg (including battery), suitable for one-person operation. * Power supply: Rechargeable batteries with at least 5 hours of continuous operation; includes charger and one or more spare batteries. * Display and user interface: Integrated screen or external tablet with real-time imaging, intuitive interface, and image storage/export options (USB, SD card, or wireless). * Durability: Minimum IP54-rated housing (dust and splash resistant); operational temperature range from 0°C to +45°C or wider. * Safety and compliance: Conforms to international safety standards for handheld X-ray or imaging systems; low radiation emissions; certified for field and security use.   **Preferred Features (Optional)**   * Wireless or remote operation via tablet or app * Swappable/modular battery design * Multilingual interface * Built-in training or simulation mode   **Applications**   * Customs and border inspections * Law enforcement and anti-contraband operations * Vehicle, cargo, and package screening * Field deployment and rapid-response inspection   **Deliverables**   * Handheld imaging device with display interface * Minimum two rechargeable batteries * Battery charger * Protective transport/storage case   English or Ukrainian (preferred) language **interface and user manual Training:**  Basic training for operators, covering usage and basic maintenance.  **Warranty:**  Minimum 2-years warranty with service support and component replacement in case of manufacturing defects. |  |  |  |
| **13** | **Portable X-ray Scanner (VIKEN HBI-120 or equivalent)**  **Description:** The handheld backscatter X-ray scanner is designed for quick and safe detection of concealed explosives, narcotics, weapons, and other prohibited items in vehicles, baggage, and cargo. It features an integrated X-ray source and provides real-time imaging displayed on a touchscreen, with data storage for further analysis.  **Key Technical Requirements:**   * **Scanning Technology:** Backscatter X-ray or equivalent * **X-ray Source:** Miniaturized, integrated X-ray source for compactness and ease of use * **Radiation Energy:** Not less than 120 keV for effective detection of various materials, including dense metals. * **Display:** Not less than 5-inch Full HD touchscreen, anti-glare. * **Data storage:** Not less than 10,000 image scans * **Scanning Speed:** Not more than 10 seconds per scan zone. Preferably - not more than 5 seconds for rapid scanning mode. * **Weight:** Not more than 4 kg for extended use in field operations. * **Autonomy:** Not less than 4 hours of battery life with replaceable batteries. * **Start-up Time:** Device should be ready for operation within (not more than) 60 seconds after being powered on. * **Environmental Protection:** IP54 or better with a temperature range of (not less than) -20°C to +50°C to ensure protection from dust and water. * **Safety:** Device must comply with relevant international safety, electromagnetic interference, and radiation protection standards   **Accessories:** Protective case for shock and weatherproofing.  **Warranty:**   * Minimum 3 years for the equipment, 1 year for the X-ray source.   **Training:**  Basic training for operators, covering usage and basic maintenance.  English or Ukrainian (preferred) language **interface and user manual** |  |  |  |
| **14** | **Handheld Through-Wall Life Detector (Xaver™ 100 or Equivalent)**  **Description**  The handheld through-wall life detector is a compact, portable device designed to detect the presence and movement of individuals behind solid structures such as walls, partitions, or debris. It is ideal for use in rescue operations, law enforcement, and tactical activities, including locating hidden suspects and conducting search‑and‑rescue missions in collapsed buildings.  **Key Features**   * Wall Material Penetration Capable of detecting through a variety of materials: concrete, reinforced concrete, cement blocks, brick, drywall, wood, plaster, stucco, adobe and other standard construction materials. * Field of View   + ≥ 120° in both azimuth and elevation * Frequency Range   + 3 GHz–10 GHz (or equivalent spectrum ensuring wall penetration) * Battery Operation Time   + Not less than 3h with CR123 or equivalent lithium cells * Wireless Capability   + Optional or built‑in wireless module for remote monitoring and control * Weight   + Not more than 3 kg * Environmental Resistance   + Operating temperature: –10 °C to +50 °C (preferred –20 °C to +60 °C) * Display Mode   + Visual indication of target presence, direction and distance   + Basic target visualization acceptable   **Applications**   * Search‑and‑rescue in collapsed structures or disaster zones * Law enforcement for locating hidden or barricaded individuals * Tactical entry and situational awareness during suspect apprehension   **Compliance**  Meets relevant safety and operational requirements for civilian rescue and public safety use.  **Training:**  Basic training for operators, covering usage and basic maintenance.  **Warranty:**  Minimum 2-years warranty with service support and component replacement in case of manufacturing defects.  English or Ukrainian (preferred) language **interface and user manual** |  |  |  |
| **15** | **Handheld detector for human and animal presence in vehicles**  **(Grand Detection MMD01 or equivalent)**  **Description:**  A portable device designed for non-intrusive detection of hidden persons or animals inside vehicles, containers, or enclosed spaces. Detection is based on micro-vibrations such as heartbeat, respiration, or other physiological micro-movements.  **Key Technical Requirements:**  **Detection Principle:**  Detects human or animal presence using heartbeat, breathing, or equivalent micro-movements, without requiring physical contact or intrusion.  **Sensitivity Range:**  Effective detection through standard container or vehicle walls or equivalent enclosures.  **Detection Time:**  Provides reliable detection results within (not more than) 1 min after deployment.  **Operational Environment:**  Functions in ambient temperatures from –15°C to +50°C, with humidity up to 95% (non-condensing); suitable for indoor and outdoor use.  **Portability:**  Compact and lightweight (not more than 3 kg), suitable for rapid deployment by a single operator.  **User Interface:**  Intuitive interface with visual and/or auditory/haptic alerts for detection status.  **Power Supply:**  Rechargeable battery providing not less than 4 hours of continuous operation. Includes compatible charging device.  **Mounting Options:**  Applicable to different vehicle types, containers, or enclosed spaces. Supports mounting via clamps, suction cups, magnetic base, or tripod  **Environmental Protection:**  Ingress protection rating: IP33 or higher.  **Compliance with Standards:**  Meets applicable safety and performance standards or provides equivalent documented compliance.  **Training:**  Basic training for operators, covering usage and basic maintenance.  **Warranty:**  Minimum 2-years warranty with service support and component replacement in case of manufacturing defects.  English or Ukrainian (preferred) language **interface and user manual** |  |  |  |