MQS TECHNOLOGIES



MQS.VIGIL

Portable Real-Time X-Ray Viewing System

MQS.VIGIL is a portable, battery-powered digital X-ray viewing system designed for rapid field deployment. It combines an X-ray source, detector panel, control interface, and rugged display unit to deliver real-time X-ray images of suspicious, concealed, or hard-to-access objects. Designed for mobility, fast setup, and reliable operation in demanding environments, the system supports safer inspection and quicker decision-making in security, tactical, and field-screening applications.

Key system highlights

- Portable, battery-powered field X-ray system with image viewing.
- Designed around a modular X-ray source architecture.
- Remote operation concept: wired and wireless operation.
- Fast readiness.
- Ruggedized transport concept.
- Field endurance target.
- Protection target.

Typical applications

Counter-IED inspection
Inspection of IEDs hidden in conduits, boxes, bags, and other unsuspecting objects.

Security screening
Screening of luggage, parcels, and packages for concealed power sources, wiring, and electronic components.

Vehicle / cavity checks
Inspection of cavities, partitions, and hidden spaces for batteries, microphones, bugs, and wiring.

Military field use
Rapid deployment by two-person teams in all-weather conditions and difficult terrain.

Forensics & evidence review
Non-intrusive viewing of internal layouts before safe-handling or dismantling.

Training & maintenance
System usage tracking, BITE diagnostics, and field-restorable software to support long-term operation.



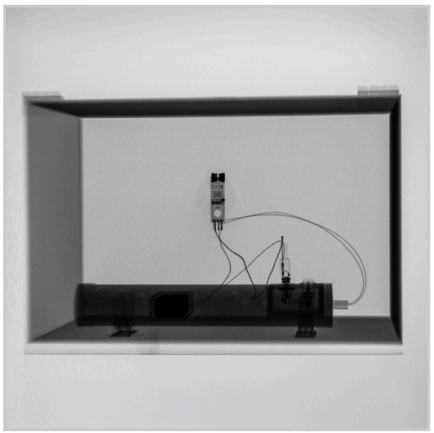
Inspection through enclosed packaging



Detection of concealed nternal components

Software features

- Pseudo-colour mapping and organic/inorganic differentiation.
- Brightness, contrast, smoothing, and sharpening controls.
- Split-screen display of at least two images.
- Image rotation, tilt, and on-screen measurement.
- Stitching of multiple X-ray images for larger objects.
- Emboss / 3D-effect viewing and deep zoom capability.
- Image storage, export, offline antivirus protection, and future software upgrade path.
- Pattern analysis / library support and AI-assisted interpretation.



High-clarity digital X-ray image output

Technical specifications

Category	Feature	Specification / Capability
X-Ray Source	Type	Constant Potential
	Energy	150 kVp
	Beam Angle	40°
	Startup Time	90 sec
	Safety	Non-radioactive, interlock, audio-visual alerts
Remote Operation	Wired	50 m
	Wireless	100 m
Power System	Battery	3 hrs operation & spare battery
	Charging	230V AC (+10%) single phase 50 Hz (+5%)
Imaging Panel	Dead Space	5 mm
	Acquisition Time	30 sec
	Mounting	Adjustable for uneven surfaces
Software Control Unit	Image Processing	Contrast enhancement, sharpening, pseudo colour
	Tools	Measurement, stitching, 360° rotation
	Zoom	600%
	AI Features	Pattern recognition, IED analysis
	System	Rugged laptop
	Specs	i7 / equivalent, 16 GB RAM, 1 TB SSD
	Display	Full HD (1920 × 1080), daylight readable
	Connectivity	USB, HDMI, Ethernet, Fibre
Portability	Weight	40 kg
	Handling	Portable, wheeled case
	Build	Waterproof, dustproof, rugged
Environment	Temperature	-15°C to +50°C
	Humidity	90%
	Altitude	4500 m
	Protection	IP65
Maintainability	Design	Modular, PCB replacement
	Diagnostics	Built-In Test Equipment (BITE)
	Software	Field upgradeable
Reliability	Service Life	8 years
	Compliance	MIL-STD, Radiation Safety

Note: Specifications and features may evolve as the final configuration is confirmed. Contact us for additional options and accessory choices.

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