RAVEN™

unrivaled handheld x-ray imaging

Raven Multi-modal Handheld X-Ray Imager represents Viken's cutting-edge achievements and expertise in X-ray imaging. Using a novel (and patented) beamforming technology, Raven achieves unprecedented image quality in a compact, sleek design.

POWERFUL, SMART, AND EXPANDABLE

lightweight and portable
Rugged and compact form-factor engineered to access confined spaces.

optimized for visibility
Large-format screen with highest resolution in the field and brightness of up to 1500 nits and anti-glare coating to ensure critical visibility in direct sun.

ease-of-use
Physical navigation and interaction buttons, on board user guidance, and dual hot-swappable batteries ensure continuous operation in the field with or without gloves.

intuitive and fast
Scan more, faster with hardware and software optimized to streamline power-up and login process.

intelligence meets innovation
Utilizes AI/machine learning algorithms to target potential threats and visualize key regions of interest.

multi-modal functionality
On board backscatter (Bx), optional PbID™ detector, and optional transmission (Tx) imaging accessories for dynamic and static imaging of both metallic and organic threats.

user safety
Gain peace of mind knowing Raven leverages internal X-ray shielding and purposeful positioning of touch points to ensure safe and worry-free use of high power sources.

RAVEN'S KEY ACCESSORIES

DTX - Dual energy Tx imaging accessory that enables dynamic scanning of objects of interest and provide colorized material differentiation and best-in-class penetration.

VIKEN
DETECTION

synthetic drugs have changed the rules of the game — so has Viken.

the edge your mission needs

Raven offers distinct advantages to achieve mission goals. Objects are scanned using best-in-class backscatter and transmission modes (either with a moving Tx bar or a fixed panel) that generate unmatched details at increased depths. Other options, such as XRF to identify lead-concealment and thermal imaging make Raven a superior threat-detection tool.

Raven's sleek design also elegantly integrates additional features, such as a bigger and brighter HD screen, advanced image analysis and AI tools, hot-swap batteries, navigation buttons, and more.

product specifications

detection technology	Wide Area Bx Detector | XRF-based PbID™ Sensor *(upgrade)*
x-ray source	140kV @ 10W [71µA] | 160kV @ 10W [63µA]
display	7 in | 1200x1920 FHD+ | 1500 nits | Anti-glare
weight	11.8 lbs (5.3 kg)[1]
dimensions (WxHxL)	10.9in (27.8cm) x 8.9in (22.7cm) x 6.7in (17.0cm)
operating system	Android 10
cameras	13 MP color
connectivity	Wi-Fi 802.11 | 802.15.1 | GPS | USB-C | Ethernet | 4G LTE Cellular[2] *(upgrade)*
penetration	Up to 13mm Bx @ 160kV[3] Up to 40mm Tx @ 160kV (w/ DTX Accessory)[3]
resolution	1.0 linepairs/mm | resolves 0.5 mm wire
operating conditions	-4°F (-20°C) to 140°F (60°C)
operating power	2x rechargeable hot-swappable Li-ion batteries provide up to 6 hours with typical use. Wall-power adapter for continuous use and direct charging.

Factory configurations and customizations available for sensitive environments and unique local jurisdiction requirements.

Contact sales to discuss your needs.

1: Weight for base system without options
2: Requires customer dataplan
3: Actual penetration will depend on testing conditions