



### HBI-120

#### Handheld Backscatter Imager

Viken Detection HBI-120 is a rugged, ergonomic, handheld backscatter x-ray instrument that enables users to quickly and cost-effectively find concealed explosives, narcotics and other contraband, even through 12-gauge (over 2 mm thick) steel — more than twice the thickness of typical motor-vehicle body panels — with none of the limitations of portable transmission x-ray systems. The HBI-120 weighs only 7.5 lbs. (3.4 kg) and images objects with a miniaturized, internal 120 keV x-ray generator that makes a raster-scanning pencil beam of x-rays to scan objects of interest. As the handheld HBI-120 is moved over the object, a 2-dimensional backscatter x-ray image of the object is displayed in real-time on HBI-120's high-resolution transfective LCD touchscreen and saved in the instrument's memory.

# VIKEN

## DETECTION



#### SPECIFICATIONS

<b>Weight</b> .....	3.4 kg (7.5 lbs.) including battery pack
<b>Size</b> .....	24 cm (9.4") x 22 cm (8.7") x 17 cm (6.7")
<b>Scan Speed</b> .....	Up to 30 cm (12") per second 15 cm (6") per second for optimal image quality
<b>Batteries</b> .....	Rechargeable Li-ion battery packs 4-hour battery pack life with typical duty cycle
<b>Display</b> .....	Transflective 720 x 1,280 pixel color touchscreen LCD
<b>Imaging Features</b> .....	Image stitching; automated and manual histogram enhancement
<b>X-Ray Generator</b> .....	120 keV, 5 W x-ray generator with Heuresis x-ray optics
<b>Data Storage</b> .....	> 10,000 image scans
<b>Data Management</b> .....	Heuresis Data Management Software (HDMS)
<b>Standard Accessories</b> .....	Lockable waterproof case with wheels Multi-position adjustable safety strap 110/220 V AC battery charger and spare battery pack Quick Start Guide User Guide Electronic training materials
<b>Operating Conditions</b> .....	-40°C to 60°C (-40°F to 140°F) Splash and dust proof



# BRSInnovations

## Broadwing LAD Large Area Detector

# VIKEN DETECTION

Viken Detection's proprietary Broadwing LAD accessory for the HBI-120 is a detachable, light-weight large-area detector that not only enhances vehicle inspection for drug interdiction, but also enables new missions.

### ENHANCED DRUG INTERDICTION

- ▶ Deeper imaging penetration
- ▶ Standoff scanning for wider sweeps

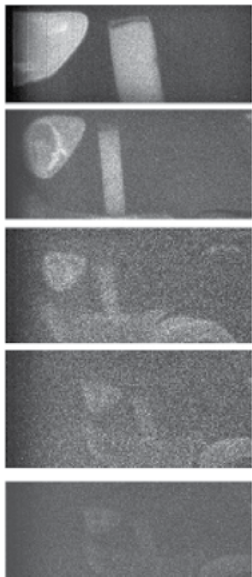
### NEW MISSION APPLICATIONS

- ▶ Cargo / Trailers / Watercraft
- ▶ Building Searches
- ▶ Tactical Raids
- ▶ Counter Surveillance / Intelligence



The Broadwing allows operators to see deeper or use wider scans for larger targets.

#### Standard HBI-120



#### Standoff Distance

0 m / 0 ft

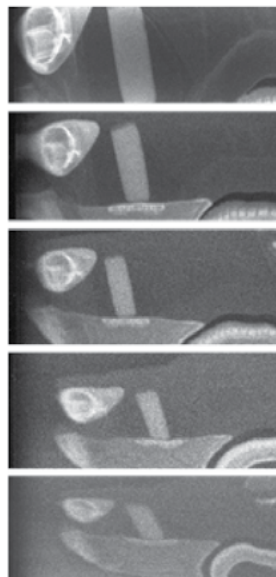
0.3 m / 1 ft

0.6 m / 2 ft

0.9 m / 3 ft

1.2 m / 4 ft

#### HBI-120 w/ Broadwing



## BROADWING-LAD

Dimensions: 51 cm x 36 cm x 16 cm  
(20" x 14" x 6")

Weight: 2.04 kg (4.5 lbs.)