



BRSInnovations

HBI-120

Handheld Backscatter Imager



Heuresis' 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.



SPECIFICATIONS

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