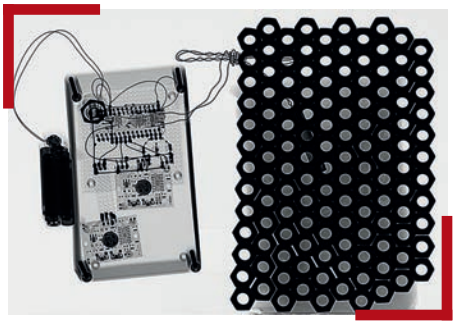
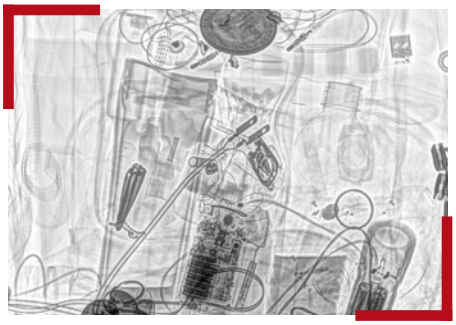
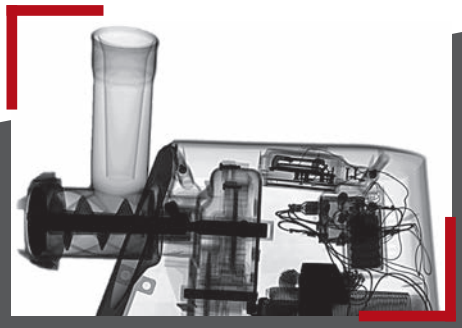
VC security

A Division of

VisiConsult
X-ray Systems & Solutions

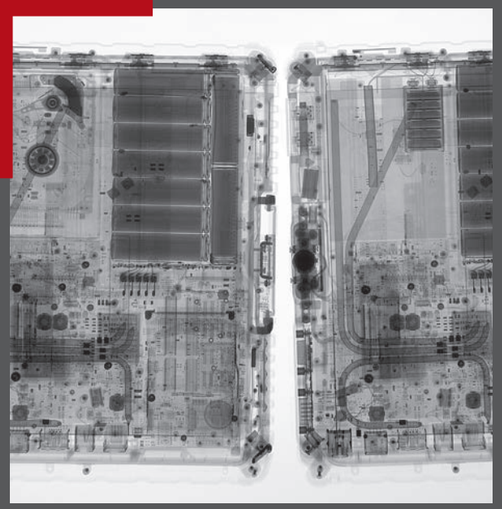


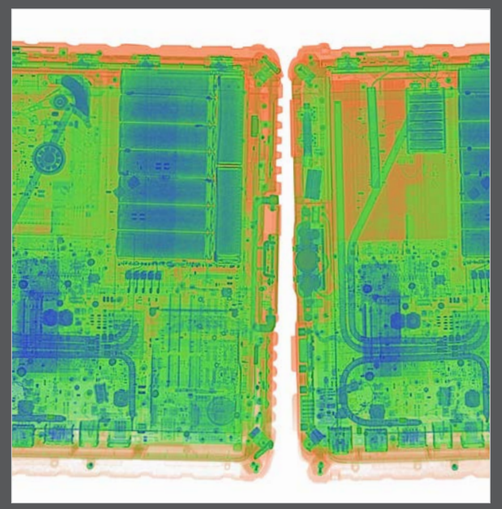




Solution Range

X-ray solutions for Security Professionals





Can you identify the following IED components in the above images?:
1. Power source
2. Detonator
3. Switch
4. Explosive

Discover the invisible

VCsecurity is a division of VisiConsult X-ray Systems & Solutions GmbH, a leading manufacturer of digital X-Ray systems with over 15 years' experience in supplying portable X-Ray systems for security applications. Based on hundreds of supplied systems globally the systems provide a versatile and easy to use software, durable hardware for operation at any kind of weather conditions and full robot integration.

Our goal is to provide the operators with better tools that are more effective and provide a safer operation. To accomplish this, we look at the real-world problems that security officials deal with in the field. The systems are completely designed and manufactured inhouse to ensure highest quality and performance in cooperation with leading specialists from the field. VCsecurity offers a solution from operators, for operators.

> IED & EOD
> Special Forces
> Counter Surveillance
> Border Control
> Customs
> VIP Security

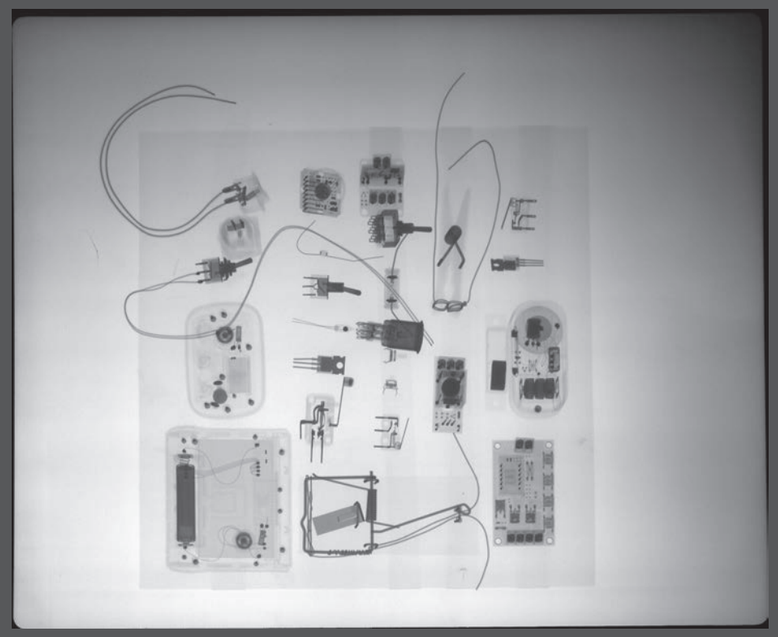
Technical Specification

Model	**Vshield2532**	**Vshield3643**	**Vshield4343**
Pixel Matrix	2048 × 2560 pixels	2560 x 3072 pixels	3072 × 3072 pixels
Pixel Pitch	124 µm	140 µm	140 µm
Resolution	4 lp/mm	3.5 lp/mm	3,5 lp/mm
Size	322 x 355 x 17 mm (10″ x 12″)	400 x 470 x 17 mm (14″ x 17″)	460 x 460 x 15.5 mm (17″ x 17″)
Imaging Area	253.95 × 317.44 mm	358 x 430 mm	430 × 430 mm
Weight	2.7 kg (6 lbs.)	4,2 kg (9.3 lbs.)	4.2 kg (9.3 lbs.)
Dead Space	8.5 mm bottom and right side	8 mm bottom / 10 mm right side	17 mm all sides
Sensor	**Wide Quantization Depth with Low Noise Level**		
Panel	TFT with photodiode		
Scintillator	GOS (CsI optional available)		
Greyscale	16bit		
Mechanical	**Stable and Reliable AED Function**		
Detachable handle	Portrait and landscape (two sides)		
Communication	**High speed wireless transmission with 3 antennas**		
Status Display	Wi-Fi, LAN and battery indicator		
Wireless Data I/F	802.11n/ac Wifi standard at 2.4 & 5 GHz		
Fast Initial Setup Time	15 seconds only		
Image Acquisition Time	Wired: 1.5 s / Wireless: 3 s		
Enviromental	**Excellent Temperature Stability**		
Ingress Protection	Water resistant and dustproof (IP67)		
Operating Enviroment	-20°C - +50°C		
Power	**Long Battery Life**		
Battery	Rechargeable Li-Ion battery		
Battery Charger	External two bay charger 100 – 240 V AC 50/60 Hz		
Operating Time	8 hrs. capturing / 9 hrs. standby		

CR phosphor plates

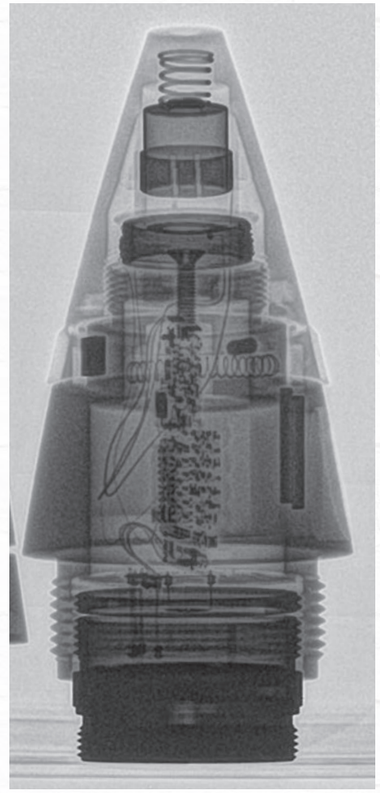
These phosphor plates are flexible and very light weight. The high definition CR scanner allows inspection with 35-micron resolution to see even fine structures. Big objects can be inspected in one shot through the image stitching.

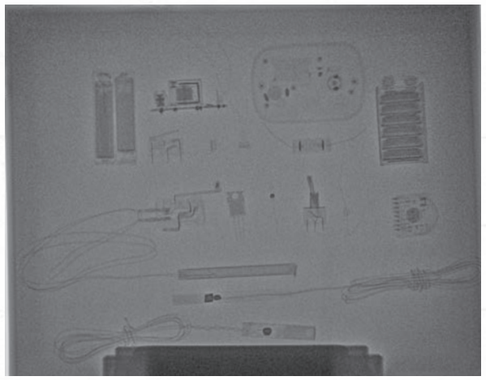
- Thin and flexible image plates
- Available in different sizes and shapes
- Native integration of the CR-scanner
- 4 in 1 stitching functionality for big objects
- Battery operated for high mobility
- Customized transport case



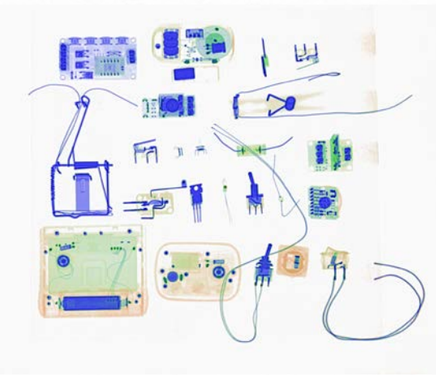
Software Highlights

- “One Button” operation for intuitive handling through predefined sequences
- One pulse image
  Quick Enhancer applying sophisticated filters automatically
- Stitching tool for stitching multiple images
- High resolution and image enhancement filters
- Comprehensive measurement toolbox and decision-assistance functions
- Materials discrimination through Dual-Energy filter
- Forensic toolbox
  Supports IED Network analyses and inspection of wire-taps Image comparison tool that highlights alterations during revision
- Archiving options and integrated mission log archive
- Worldwide Service via online help, system is prepared for online help over an online connection





20mm of steel penetration from 80 cm distance with 10 pulses using Golden XRS-3



Materials discrimination image using a dual energy filter

Communication options

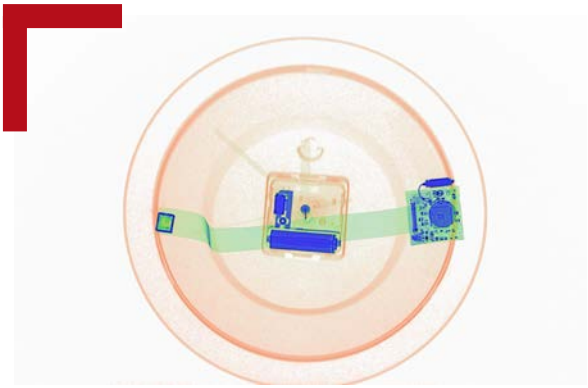
Image Control Unit: eBox
> Wireless, wired or hybrid communication between notebook/tablet and detector
> 400m line of sight (up to 1.200m with optional Repeater)
> 5 hrs. of operation with internal battery,
> Charging time 3 hrs.
> Unlimited operation with AC main supply and parallel battery charging
> Integrated Li-Ion Battery 15volts, 3.200mAh
> 802.11n WiFi standard at 5Ghz

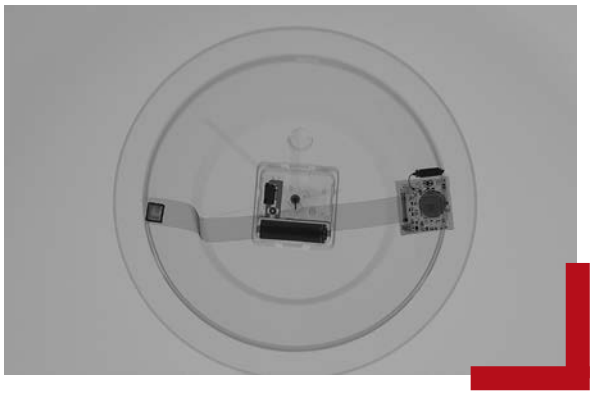
Hand held transmitter for X-ray source
> Designed for rapid operation of the system without eBox and for wireless Communication between X-ray source and eBox
> Direct wireless control of all functions of the X-ray source: Pulse counting, Rounds and delay time
> No elevation of the x-ray source
> Range up to 300 m line of sight
> Operating time 4 hrs. with integrated battery
> Battery charging time 3 hrs.
> Internal battery (Li-Ion Li-Po 7,4 volt / 350mAh)

Dual Energy Filter
> Material-classification through Dual-Energy filter
> Differentiation between organic, inorganic and mixed materials
> Ability to peel external inorganic layer and reveal organic material behind it

Imaging unit
> Compatibility with several tablets and laptops based on client needs

Robot Integration Module
> Integration with the leading robots models
> System embedded into the robot remote and monitor
> 3D image option





Clock is ticking, better call the Vteam!

Go to www.visiconsult.de/products/security for further product information.

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