



VShield CR35+

Technical Specifications

VShield CR35+

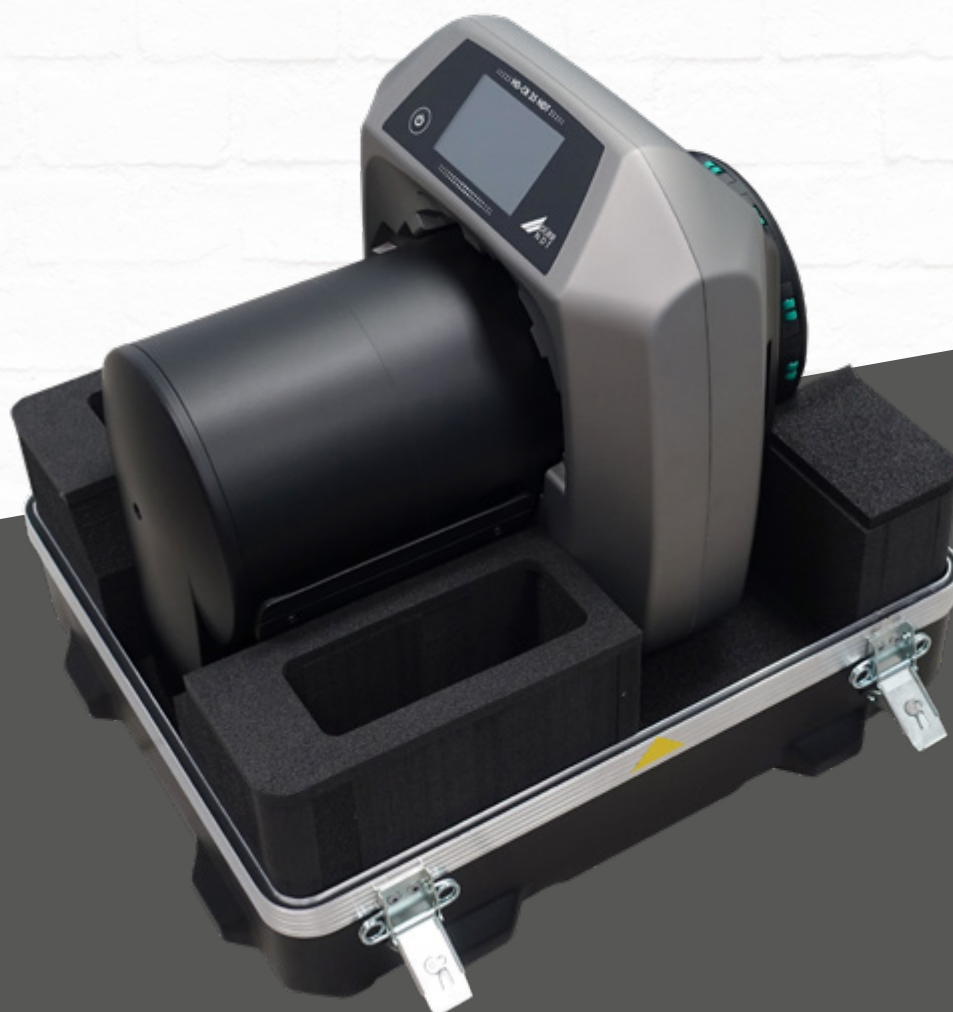
The main advantages of Vshield CR35+ imaging plates are their low weight, Varying sizes, flexibility and accuracy. Combination with a battery-operated X-Ray source Delivers unmatched mobility.

The flexible IP-plates can be wrapped around objects or squeezed into small gaps. To achieve images without interferences.

In case of high energy applications CR plates can also be combined with constant beam tubes in higher kV ranges. Digital images can be retrieved from the physical plates through a high definition CR Scanner that allows an accuracy of up to 35 microns (Available in the special high-resolution version). The scanner is proven in field and comes in a customized transport case for easy handling.

The deep integration into the Xplus Security software allows direct scanning and image representation in real-time. In case of large objects VisiConsult offers a 4-plate holder and 9-plate blanket that allows to cover a huge area in a single shot.

The Xplus Security software offers a convenient automatic stitching feature for these images and integration with DR system for scenarios which requires materials discrimination and other advantages.



Digital IP-Plate Processor

The Vshield CR35+ digital imaging plate processor is capable of imaging plates down to 75 μm . Which exceed other CR scanners by 25 μm . With the upgraded high definition NDT model, you can image plates down to 30 μm . The CR 35 system comes standard with its own back up battery and power supply that provides up to 6 hours of operational run time (more than 100 scans) and 12/24 VDC operation capability

General technical Data

- > Dimensions (LxWxH): 37 x 40 x 47 cm
- > Scanner Weight: 17.5 kg (38.5 lbs.)
- > Laser spot size: 50 μm
- > Plate resolution: 100 μm (75 μm on demand)
- > Grey levels: 16-bit, 65,536 grey levels
- > Max. plate size: 35 cm wide, length virtually unlimited
- > Electrical: 100 – 240 VAC / 50 – 60 Hz ~ 140 W
- > Temperature range: 10°C to 35°C
- > ICU Unit CR
- > Power Supply: Operating CR scanner by
 - > AC mains / vehicle power supply / battery pack
 - > Battery pack: BB 2590/U battery
 - > Capacity: 9.9Ah in 24V Mode; 19.8Ah in 12V Mode
 - > Weight: 1.4 kg (3.1 lbs)
 - > (More than 100 imaging plate scans during 6 hours of operation)
 - > Size: Length: 112 mm (4.4") Width: 61 mm (2.4") Height: 127 (5")



Image plate

- > Size: 35 cm x 43 cm / 4 pcs included
- > Thickness / weight: < 2 mm / 200 g
- > Life-cycle: more than 1,000 times (depending mechanical stress)
- > Incl. 4 protection bags, color black, numbered
- > Image plate Mounting Wall board foldable (4 plates)
- > Image plate Mounting Canvas (9 plates)
- > Image plate mounting kit (rope, D rings, etc.)
- > Flexible mounting of IP-plates through Velcro cover



Accessoires

- > Transport case: Pelican case or truck mounted
- > With push loading drawer for rack system
- > Pelican case weight: 32.4 kg (71.5 lbs.)
- > Size: 45 cm x 45 cm x 57 cm
- > Full system is contained in this case
- > Cable set: Ethernet 3 m, power supply AC mains and vehicle



Hand Held Transmitter

The VCSecurity wireless hand held x-ray generator transmitters allow you to fire the x-ray source without the need of an Integrated Control Unit (ICU) or cumbersome hard wires.

These small and portable transmitters allow for quick tactical short-range operations when a lightweight and a small package is required.

The system has a built in safe and arming switch that provides safe firing of the x-rays and ensures that there are no misfires.

The system is rugged and is designed to hold up in harsh environments while providing 400 meters transmission distance

Specifications:

- > Designed for rapid operation of the x-ray system for wireless communication
- > 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 400 m line of sight
- > Operating time 4-6 hrs. with integrated battery
- > Battery charging time 3 hrs.
- > Safe and arming with firing switch
- > Attaches to picatinny rails on Golden X-Ray
- > Internal battery: (Li-Ion Li-Po 7,4 volt / 350mAh)

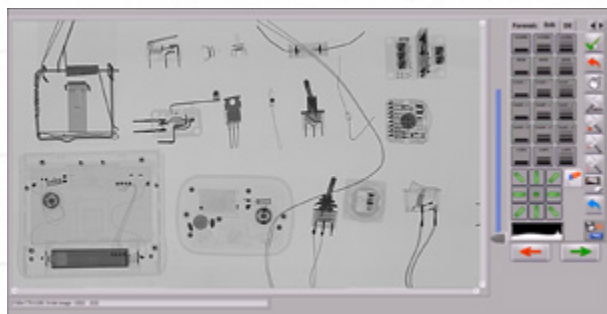


X-ray Controller Options

Scorpion Tablets

Operating System	Windows 10 IOT
Mobile Computing Platform	Intel® Atom™ Cherry Trail x5-Z8350
Display	10.1" (25,65cm), Resolution 1280x800 Touchscreen 10-point capacitive, brightness 280 cd/m ²
Storage & Memory	4GB DDR3L 64 GB ROM
IO Interface	DC in Jack x 1 USB 2.0 (4pin) x1 Micro USB OTG x 1 LAN (RJ45) x1 Mini HDMI 1.4a x1 Expansion Micro SD x1
Communication Interface	802.11 a/b/g/n Dual Band WiFi Bluetooth (v4.0) GPS U-blox NEO-7 Integrated 4G module
Power	Integrated 4G module AC adapter (100-240VAC, 50/60Hz) Battery 10.000mAh, 3.7V, removable
Dimensions & Weight	280x187x22mm 1.1 kg
Rugged Features	MIL-STD-810G certified and IP65 certified
Environmental Specs	Temperature -21°C to 60°C/-5.8°F to 140°F operating
Set content:	Scorpion 10" Plus – Rugged Tablet PC, carrying strap, hand strap, 3-in-1 power adapter USB 5V/3A (EU, UK, US), USB charging cable, USB OTG Cable

Software can be installed on several semi or fully rugged tablets and laptops like: Panasonic, Getac, Roda and others per request

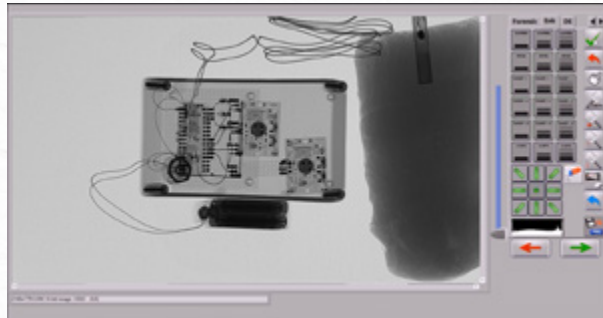


Xplus Security Software

The core of every system is our in-house developed advanced image enhancement system Xplus Security that constantly sets new standards.

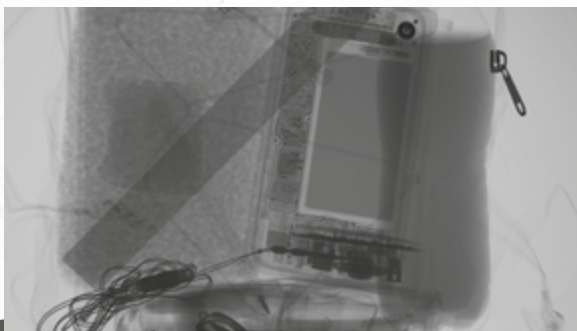
Over 25 years of experience in industrial and security X-ray applications and a permanent development leads to excellent inspection results and proven processes.

Quality and reliability are the basic principles for all our security products to guarantee a maximum operator safety.

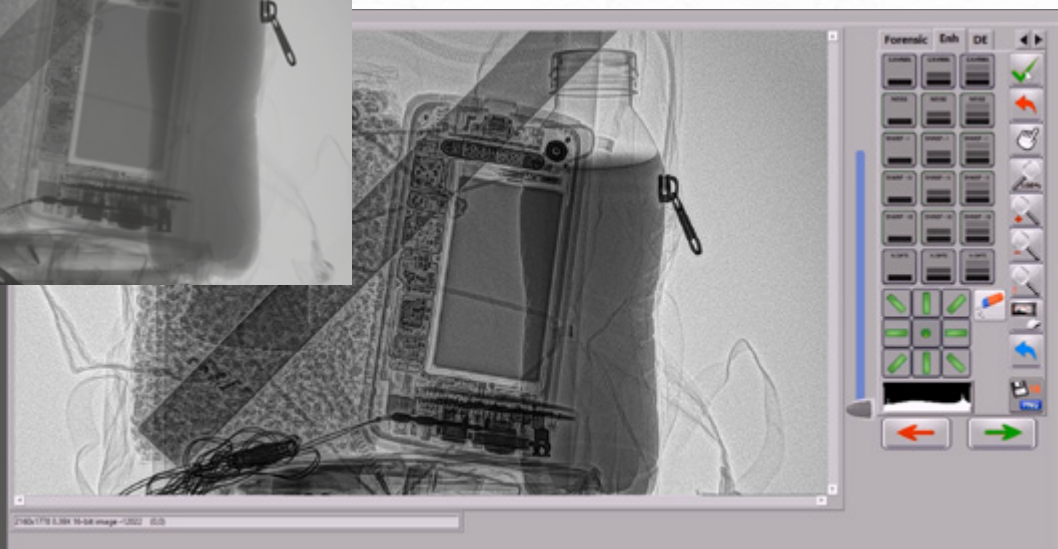


Main functions

- > "One Button" quick image enhancements that provide instant image clarity and adjustment
- > Automatic Stitching tool for stitching multiple images in a mosaic
- > Zoom-function and 1 to 1 illustration on the screen
- > High resolution and image enhancement filters for advanced visual inspection
- > Quick Enhancer applying sophisticated filters automatically
- > Advanced noise reduction, Measurement tools, Grid option, Annotations, ROI, Emboss
- > Contrast, brightness, positive and negative adjustment
- > Comprehensive measurement toolbox and decision-assistance functions
- > Archiving options and integrated mission log archive of relevant mission data for future reference. Mission logs can be exported through a single click
- > All images and X-ray parameters are saved automatically, complying to military standards
- > Image export in standard format (PNG) of 8bit and 16bit quality



**One touch
image
enhancement**



X-ray Sources

(Compatible with all Golden Engineering and Constant Potential sources)

	GE XR 150 new version	GE XRS 3 new version
Mechanical		
External Dimensions	231x77x104mm	361x108x148mm
Weight	2,2 kg (4.9lbs) with battery	5,4 kg (11,8lbs) with battery
X-ray output		
Counts per battery charge	1.700 (5.100 pulses)	4.000 pulses
Counts per second	4 counts (12 pulses)	15 (Nominal)
Expected tube life (glass tube)	50.000 counts	100.000 counts
X-ray source size	3mm (1/8in)	3mm (1/8in)
Maximum Photo Energy	150KVP	270KVP
X-ray pulse width	50 nanoseconds	25 nanoseconds
High temperture		
High use duty cycles every 4 min	300 pulses, 1.500 counts/h	200 pulses, 3.000 counts/h
Warm up	Not required	Not required
Power		
Battery voltage	12 or 10,8V	18-20V
Battery type	Li-Ion Battery	Li-Ion Battery
Battery charging time	~ 1h	~ 1h
Current draw	9amp @ 12V	20amp @ 18-20V
Set content	GE generator, transport case, 2pcs batteries, manual trigger, cable, battery-charger, Manual, GE XR200, XRS-4 and other continuous potential sources are available on request	



Mosaic Multi Plate Imaging Kit

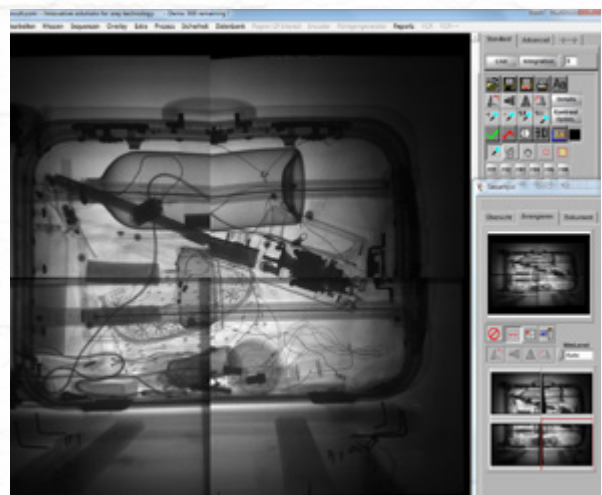
The VCSecurity Mosaic Multi Plate Imaging kit allows you to scan very large objects in one scan using multiple imaging plates. With our advanced automatic imaging stitching software, you can stitch up to 9 image plates in a single x-ray shot.

The kit provides you with all of the tools you need to set up a multi imaging plate shot with various tools that are designed for any scenario.

Kit Components

- > Foldable 4 plate holder with stand
- > Velcro Blanket that can hold up to 9 plates (light weight and easy to maneuver)
- > Rigging kit:
 - Qty 2 one-hundred-foot rope
 - 6 small bungee cords
 - 4 Long bungee cords
 - 8 carabiners LG
 - 8 carabiners SM
 - 4 large suction cups with hooks
 - 4 small suction cups with hook
 - 2 large magnets with hooks
 - Collapsible blanket stand with case
 - 4 chem lights
 - 2 rope clips
 - Military style case
 - Utility Knife
 - Leatherman
 - 2 pullies
 - 4 clamps

Stitching function





CR mosaic stitching/rigging kit



Nine Panel Velcro imaging blanket for large mosaic scans. Includes adjustable mounting frame (as seen in picture) which allows scanning in tightest places with lowest dead area from sides and bottom



Robot Integration

The Xplus Security CR35+ system comes with a lightweight imaging plate frame that is designed for deployment of imaging plates in a robot gripper arm. This robot imaging plate frame provides you with the ability to conduct remote x-ray scanning of suspect packages with a robot. VCSecurity are the industry leaders at "True" robot integration and can provide you a all in one robot and x-ray package that is controlled from the robot controller.

We have complete bolt on packages for several of the leading robot manufactures that integrate the X-ray and robot in a single controller and frequency.

CR35+ Imaging

The VCSecurity CR-35 plus provides the highest level of image quality available on the market. The combination of the CR-35 plate scanner and the high definition (HD) imaging plates ensures that your X-ray images will be crystal clear and provide you the most information.

The CR 35 plus scanner beats all other CR scanners on the market with an imaging range down to 35 microns.

Add to this the VCSecurity advanced imaging software and you will not find a higher quality portable imaging system anywhere.



vc security
by VisiConsult

Contact us today for more information or schedule a Demo with one of our sales staff!

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

VisiConsult X-ray Systems & Solutions GmbH

Brandenbrooker Weg 2-4

D-23617 Stockelsdorf

Germany

Tel: +49 451 290286 0

Security@visiconsult.de