

PX1 140keV

Handheld backscatter X-RAY IMAGER

The most *advanced*
generation of true
portable inspection
technology



HIGHER ENERGY, DEEPER PENETRATION



Industry leading image quality

The PX1 combines power and portability, setting the standard for precision. With advanced image enhancements, powerful penetration capabilities, and a range of filters, it delivers accurate results in even the most demanding inspection scenarios.



Compact and light weight

As the first true portable handheld X-ray solution, the PX1 balances size and weight to ensure operators can access hard-to-reach areas while reducing fatigue during extended inspections.



Unparalleled Safety

Engineered for reliable performance, the PX1 is built with patented shielding to eliminate scatter and leakage radiation. It keeps operators safe while maintaining its robust capabilities and ergonomic design.



Faster and easier inspections

With a 7-inch ultra-bright touchscreen, streamlined software, and extended battery life, the PX1 offers smooth operation and efficient inspections. Its design simplifies tasks, enabling operators to handle critical scenarios quickly.



MTP+

Achieve advanced capabilities with high-definition transmission panels, allowing penetration of over 20mm of steel while capturing BX and TX images simultaneously.

POWERFUL ADD ONS

VISION RGD TABLET

Wireless secondary viewing station for collaborative inspections, enabling real-time image sharing and browsing.



VISION COMMAND

Cloud-based backup for device images, providing access and interaction through any web-enabled platform.



You have **THE MISSION**
we have **THE VISION**



(858) 676-5382 | www.tek84.com | 13495 Gregg Street | Poway, CA 92064

TEK⁸⁴

PX1



SPECIFICATIONS

IMAGING & INSPECTION

ADVANTAGES

- Lead Imaging Capability Detection
- Steel Penetration: ≤ 11 mm
- Integrated Active 7" 1200x1920 FHD 2500 nits, Color Touchscreen
- Quick action buttons on handles
- Save 25,000 - 200,000 images based on storage configuration
- Wireless & wired image transfer
- Configurable scanning speeds (3.75cm to 45cm per sec)
- Configurable up to 60 sec max scan
- Field of view alignment line lasers
- VISION 5.0 Auto Image Optimization
- Focus Scan mode
- More than 10 colorization filters including (inverse, thermal, etc)
- Image Compare & Stitching up to 8 images in one
- 13MP Color Front Facing Camera
- 140KV/10W
- Real time remote visualization capability

STANDARD ACCESSORIES

- Two (2) rechargeable batteries
- 1-Bay rapid charger
- Quick connect adjustable wrist & shoulder straps
- USB-C Data transfer cable
- Lockable transport case (IP67, MIL-SPEC, Airline carry-on)
- Quick start guide & operators manual

** Additional accessories available for purchase

OPERATING CONDITIONS

- Ingress Protection: IP54
- Operating Temperature: -4F (-20C) to 140F (60C)
- Operating humidity: 0% to 95%
- Storage Temperature: -40F (-40C) to 158F (70C)

SAFETY

- Revolutionary & patented built-in shielding
- Visual indicator lights and interlocks to prevent inadvertent X-ray emission
- Password required for operation
- Configurable Single/Dual Trigger Modes
- Front facing flashlights
- Contains no live radiation source

COMPLIANCE

- CE and RoHS compliant
- UL Compliant
- HPS Compliant
- Compliant with all applicable U.S. Federal health and safety standards.
- ANSI, ICRP, NCRP and Euratom radiation safety standards for annual dose for general public

SYSTEM

- Android 14 Operating System
- USB-C, USB 3.0, Wi-Fi, GPS, and Bluetooth Connectivity
- Multi-Language User Interface
- 5G Onboard Modem or 4G/5G Hotspot Compatibility
- *Requires external cellular plan
- Storage: 128GB, configurable up to 1TB

TRANSPORT CASE OPTIONS

- Lockable hard case: (IP67, MIL-SPEC, Airline carry-on)
- Length: 53,54 cm (21 in)
- Width: 44,45 cm (17.5 in)
- Height: 35,56 cm (14 in)
- Other hard case options available
- Tactical backpack

SUPPORT

- Complementary Over-the-Air (OTA) Software Updates
- Complementary Email/Phone Support
- Virtual and On-site Training available
- Standard 1-year warranty included
- Extended warranty available

BATTERIES

- 4-6 hours battery life | 1 battery bay
- 2 batteries included w/ every PX Unit
- 110/220V AC 1-Bay Rapid Charger

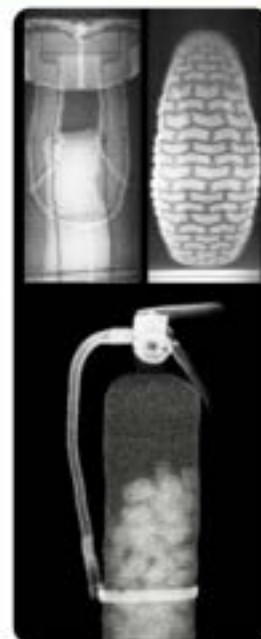
DIMENSIONS

- Length: 21.1 cm (8.3 in)
- Width: 28.2 cm (11.1 in)
- Height: 18.6 cm (7.3 in)
- Weight: 4.5 kg (9.9 lbs)



Advanced electronics platform that boosts X-ray system *precision, storage, and speed*, delivering faster, higher-quality insights than ever before.

X-RAY



PXT

The most *advanced*
generation of true
portable inspection
technology



The most **POWERFUL**
HANDHELD TRANSMISSION

X-RAY IMAGER



PXT TRANSMISSION



Maximum handheld performance

See through up to 40mm of steel and find smaller anomalies in combination with MTP+, the PXT is the most powerful handheld transmission x-ray solution with embedded touchscreen. With the power of traditional box scanners all in an ultra portable and handheld point and shoot scanner.

Intuitive and powerful software

Modern and intuitive software interface that makes it easy to filter and enhance images to get the most out of each image. All right at your fingertips on the device with it's 7" ultra-bright touchscreen

Unparalleled safety

Our patent pending revolutionary shielding protects operators from leakage and scatter radiation and exceeds all industry safety standards without compromising on image quality or device size and weight.

Deploy anywhere in seconds

Reduce inspection time without the need to bring objects to box scanners, or fixture traditional unshielded portable x-ray generators.



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SPECIFICATIONS

PXT



OPERATING CONDITIONS

- Ingress Protection: IP54
- Operating Temperature: -4F (-20C) to 140F (60C)
- Operating humidity: 0% to 95%
- Storage Temperature: -40F (-40C) to 158F (70C)

STANDARD ACCESSORIES

- Two (2) rechargeable batteries
- 1-Bay rapid charger
- Quick connect adjustable wrist & shoulder straps
- USB-C Data transfer cable
- Lockable transport case (IP67, MIL-SPEC, Airline carry-on)
- Quick start guide & operators manual

**Additional accessories available for purchase

TECHNICAL OVERVIEW

- Exposure time range: 0.5-2.0 sec
- Focal spot: 0.75mm
- X-ray beam: 30deg FOW cone
- Maximum duty cycle: 180 scans per hour in handheld use at full power
- Tube Voltage: 90-140kv
- Tube Current: 5-70uA
- Tube Power: 10W
- Flexible image export options
- Field of view alignment line lasers and camera live view

COMPLIANCE

- CE and RoHS compliant
- UL Compliant
- HPS Compliant
- Compliant with all applicable U.S. Federal health and safety standards.
- ANSI, ICRP, NCRP and Euratom radiation safety standards for annual dose for general public

SCANNER DIMENSIONS & WEIGHT

- Length: 19.2 cm (7.6 in)
- Width: 44.5 cm (17.5 in)
- Height: 26.9 cm (10.6 in)
- Weight: 5.2 kg (11.5 lbs)

SYSTEM

- Android 14 Operating System
- USB-C, USB 3.0, Wi-Fi, GPS, and Bluetooth Connectivity
- Multi-Language User Interface
- 5G Onboard Modem or 4G/5G Hotspot Compatibility
- *Requires external cellular plan
- Storage: 128GB, configurable up to 1TB

BATTERIES

- 4-6 hours battery life | 1 battery bay
- 2 batteries included w/ every PX Unit
- 110/220V AC 1-Bay Rapid Charger

SUPPORT

- Complementary Over-the-Air (OTA) Software Updates
- Complementary Email/Phone Support
- Virtual and On-site Training available
- Standard 1-year warranty included

TRANSMISSIONS PANEL OPTIONS

- MTP+ 14x17 in
 - MTP+ 10x13 in
- **See MTP+ Datasheet for more details

IMAGING & INSPECTION ADVANTAGES

- Handheld
- Wireless & Wired image transfer
- Integrated Active 7" 1200x1920 FHD 2500 nits, Color Touchscreen
- Quick action buttons on handles
- Save 25,000 - 200,000 Images based on storage configuration
- Flexible image export options
- Field of view alignment line lasers and camera live view

TRANSPORT CASE OPTIONS

- Lockable hard case with wheels (IP67, MIL-SPEC)

SAFETY

- Revolutionary & patented built-in shielding
- Visual indicator lights and interlocks to prevent inadvertent X-ray emission
- Password required for operation
- Configurable Single/Dual Trigger Modes
- Front facing flashlights
- Contains no live radiation source



Advanced electronics platform that boosts X-ray system precision, storage, and speed, delivering faster, higher-quality insights than ever before.



PX ULTRA

160keV

Handheld backscatter

X-RAY IMAGER

The most *advanced* generation of
true portable inspection technology



HIGHER ENERGY, DEEPER PENETRATION

Industry-Leading Image Quality

With unparalleled imaging depth, the PX Ultra ensures detailed results even in the most challenging scenarios. Powered by advanced penetration modes and a suite of imaging filters, it is designed for scenarios where precision is paramount.

Superior Operator Safety

Safety is non-negotiable. The PX Ultra offers uncompromised safety with its patented shielding technology, exceeding industry standards for radiation protection. Operators can focus on the task at hand without worrying about scatter or leakage.

Compact and Lightweight Design

Despite its superior power, the PX Ultra remains highly portable. Its ergonomic design enables operators to navigate tight spaces easily, ensuring fatigue-free use during extended inspections.

Faster Inspections, Simplified Processes

From its ultra-bright 7-inch touchscreen to its quick-action buttons, the PX Ultra is built for speed and simplicity. Operators can conduct inspections in both indoor and outdoor environments without requiring additional equipment.

POWERFUL ADD ONS

MTP+

Elevate inspections with transmission panels capable of penetrating over 25 mm of steel, capturing BX and TX images simultaneously for detailed analysis.

RGD VISION TABLET

Wireless secondary viewing station for real-time image sharing or archival browsing, enhancing inspection collaboration.

VISION COMMAND

Streamline workflows with secure cloud backup and image interaction from any web-enabled device.

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PX ULTRA



SPECIFICATIONS

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- Quick action buttons on handles
- Save 25,000 - 200,000 images based on storage configuration
- Wireless & wired image transfer
- Configurable scanning speeds (3.75cm to 45cm per sec)
- 60 sec max scan
- Field of view alignment line lasers
- VISION 5.0 Auto Image Optimization
- Focus Scan mode
- Image Compare & Stitching up to 8 images in one
- 13MP Color Front Facing
- 160kV / 10W
- More than 10 colorization filters including (inverse, thermal, etc)

STANDARD ACCESSORIES

- Two (2) rechargeable batteries
- 1-Bay rapid charger
- Quick connect adjustable wrist & shoulder straps
- USB-C Data transfer cable
- Lockable transport case (IP67, MIL-SPEC, Airline carry-on)
- Quick start guide & operators manual

** Additional accessories available for purchase

OPERATING CONDITIONS

- Ingress Protection: IP54
- Operating Temperature: -4F (-20C) to 140F (60C)
- Operating humidity: 0% to 95%
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COMPLIANCE

- CE and RoHS compliant
- UL Compliant
- HPS Compliant
- Compliant with all applicable U.S. Federal health and safety standards.
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SYSTEM

- Android 14 Operating System
- USB-C, USB 3.0, Wi-Fi, GPS, and Bluetooth Connectivity
- Multi-Language User Interface
- 5G Onboard Modem or 4G/5G Hotspot Compatibility
- *Requires external cellular plan
- Storage: 128GB, configurable up to 1TB

TRANSPORT CASE OPTIONS

- Lockable hard case: (IP67, MIL-SPEC, Airline carry-on)
- Length: 53.54 cm (21 in)
- Width: 44.45 cm (17.5 in)
- Height: 35.56 cm (14 in)
- Other hard case options available
- Tactical backpack

SUPPORT

- Complementary Over-the-Air (OTA) Software Updates
- Complementary Email/Phone Support
- Virtual and On-site Training available
- Standard 1-year warranty included
- Extended warranty available

BATTERIES

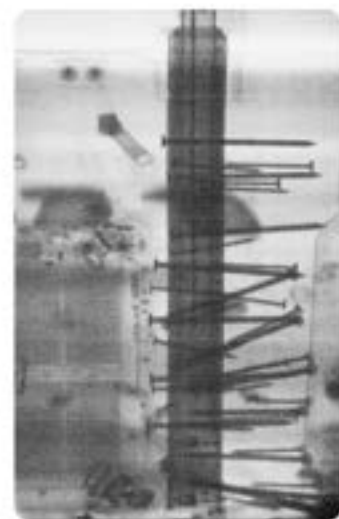
- 4-6 hours battery life | 1 battery bay
- 2 batteries included w/ every PX Unit
- 110/220V AC 1-Bay Rapid Charger

DIMENSIONS

- Length: 21.1 cm (8.3 in)
- Width: 28.2 cm (11.1 in)
- Height: 18.6 cm (7.3 in)
- Weight: 4.9 kg (10.8 lbs)



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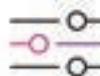
MTP

Modular
TRANSMISSION
panel
MULTI-IMAGING
Technology



IDENTIFY MORE OBJECTS

Capture both high-resolution transmission images and backscatter images at the same time, allowing operators to see more with one scan without the need to switch tools.



ROBUST IMAGE ENHANCEMENT FILTERS

Get the most out of every scan with easy to use image enhancement filters that optimize for all common scenarios.



SEE THROUGH MORE MATERIAL

See through more material than just backscatter. 20mm of steel with the PX1, 25mm of steel with the PX Ultra, and up to 30mm of steel with PXT.



FAST & FLEXIBLE POSITIONING

Completely wireless with multiple positioning and fixturing options that allow operators to scan areas that traditional c-arm X-ray systems can't reach.

DETECT MORE ANOMALIES
MTP+
SEE THROUGH MORE MATERIALS



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MTP+ Model Specifications

modular transmission Detector Panel

SYSTEM overview

- 1 Compatible with all **Videray Scanners**
- 2 **Portable**, lightweight, rugged design
- 3 **Wireless** image transfer
- 4 **High quality** and resolution images
- 5 Deploy anywhere **in seconds**
- 6 **All-day** battery life



	 MTP+1417i	 MTP+1013i
IMAGE QUALITY	15M pixels 100 µm pixel pitch 5ip/mm resolution	8.3M pixels 100 µm pixel pitch 5ip/mm resolution
IMAGING AREA	350 x 430 mm	250 x 330 mm
DIMENSIONS	L 46 cm (18.11 in) W 38.4 cm (15.12 in) H 1.5 cm (0.59 in)	L 36.2 cm (14.25 in) W 26.9 cm (10.59 in) H 1.6 cm (0.63 in)
WEIGHT*	4kg (8.8 lbs)	2.2kg (4.85 lbs)
BATTERY	2 batteries (Li-ion Polymer) 5+ hours per battery 1-Bay Rapid Charger	2 batteries (Li-ion Polymer) 8+ hours per battery 1-Bay Rapid Charger
TRANSPORTATION CASE	Lockable hard case with wheels (IP67, MIL-SPEC). Length: 64.5 cm (25.4 in) Width: 50.8 cm (20 in) Height: 36.8 cm (14.5 in) *Weight: 15.4 kg (34 lbs)	Lockable hard case with wheels (IP67, MIL-SPEC). Length: 60.4 cm (23.8 in) Width: 39.3 cm (15.5 in) Height: 33.5 cm (13.2 in) *Weight: 12.2 kg (27 lbs)

*Weight with battery

COMMON Specifications

SYSTEM

- 5G Wifi (802.11.ac), no external antenna
- Continuous AC power option
- GigE Wired
- Scintillator: DRZ-Fine

ENVIRONMENT

- Ingress protection: IP67
- Operating temperature: -10 °C (14 °F) to 50 °C (122 °F)
- Operating humidity: 5 to 90 %RH

STANDARD ACCESSORIES

- Two (2) rechargeable batteries
- 1-Bay Rapid charge
- Removable handle
- Vertical stand
- Mounting strap
- Power cord

