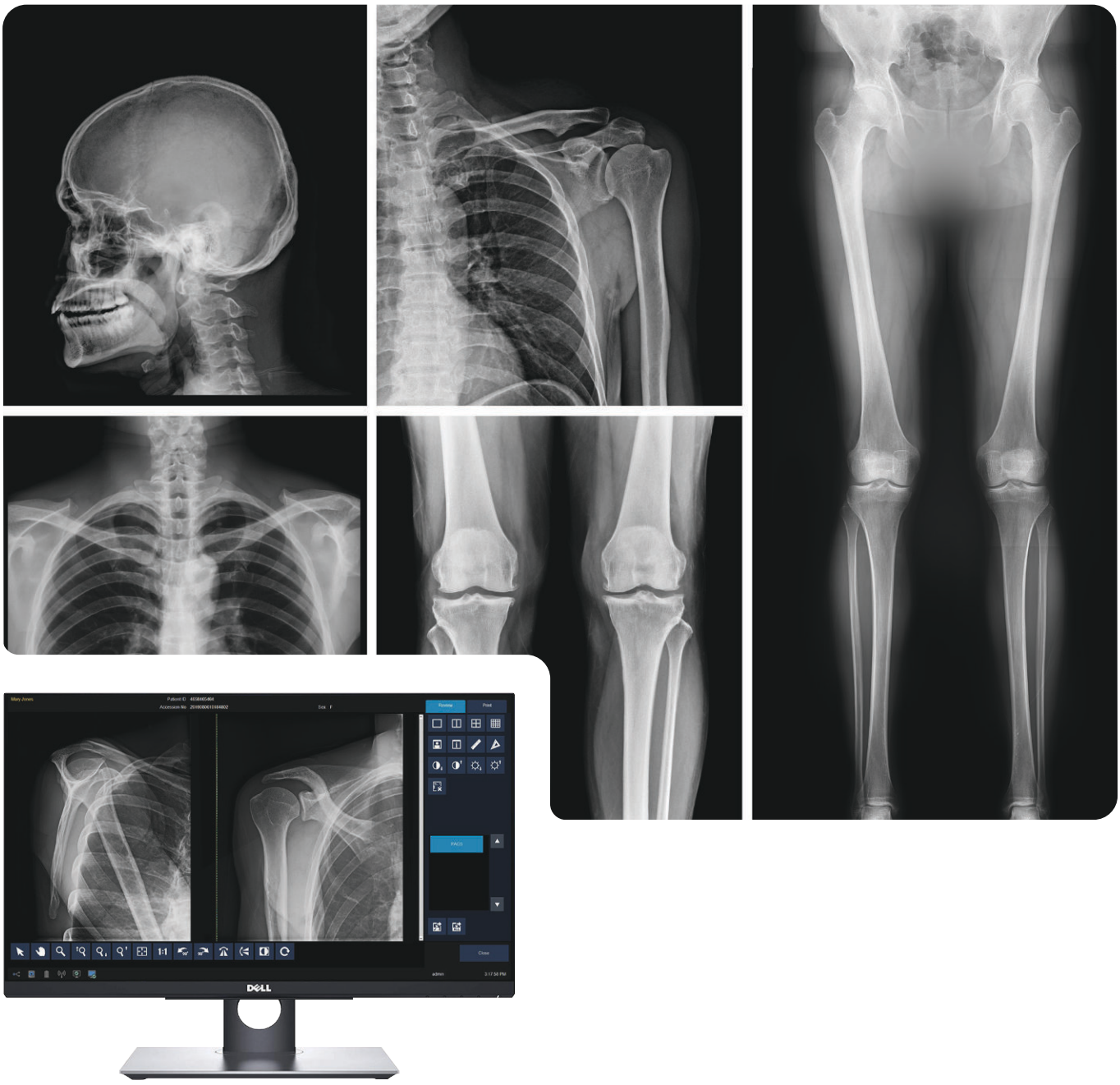


DEL MEDICAL

DELWORKS DIGITAL RADIOGRAPHY

pulseISM
PASSIONATE ABOUT IMAGING

Product Overview
A COMPLETE DR SOLUTION

The DELWORKS DR upgrade delivers exceptional diagnostic imaging using a powerful image acquisition and processing software, Cesium Iodide (CsI) detector options, and specialty features such as Auto Exposure Detection (AED) technology.

Its interface features a hassle-free, single console workflow designed to simplify every step of the examination procedure. This provides technologists with fast image preview times, advanced image enhancement capabilities and generator control options — all from a large format LED touchscreen display.

Premium Detector Options

Our DR upgrade offers lightweight wireless and fixed detector options designed to maximize workflow and minimize patient dose, without compromising image quality.

DELWORKS features the world's lightest cassette-sized detectors which promote incredibly fast positioning and readjustments. With up to 10 hours of battery life and AED technology, technologists can benefit from lasting power in even the most demanding medical facilities.

Key Highlights



Single Console Workflow and Generator Integration



Cesium Iodide (CsI) Wireless and Fixed Detector Options



EasyConnect (AED) Technology



2MP Color Touchscreen LED Monitor



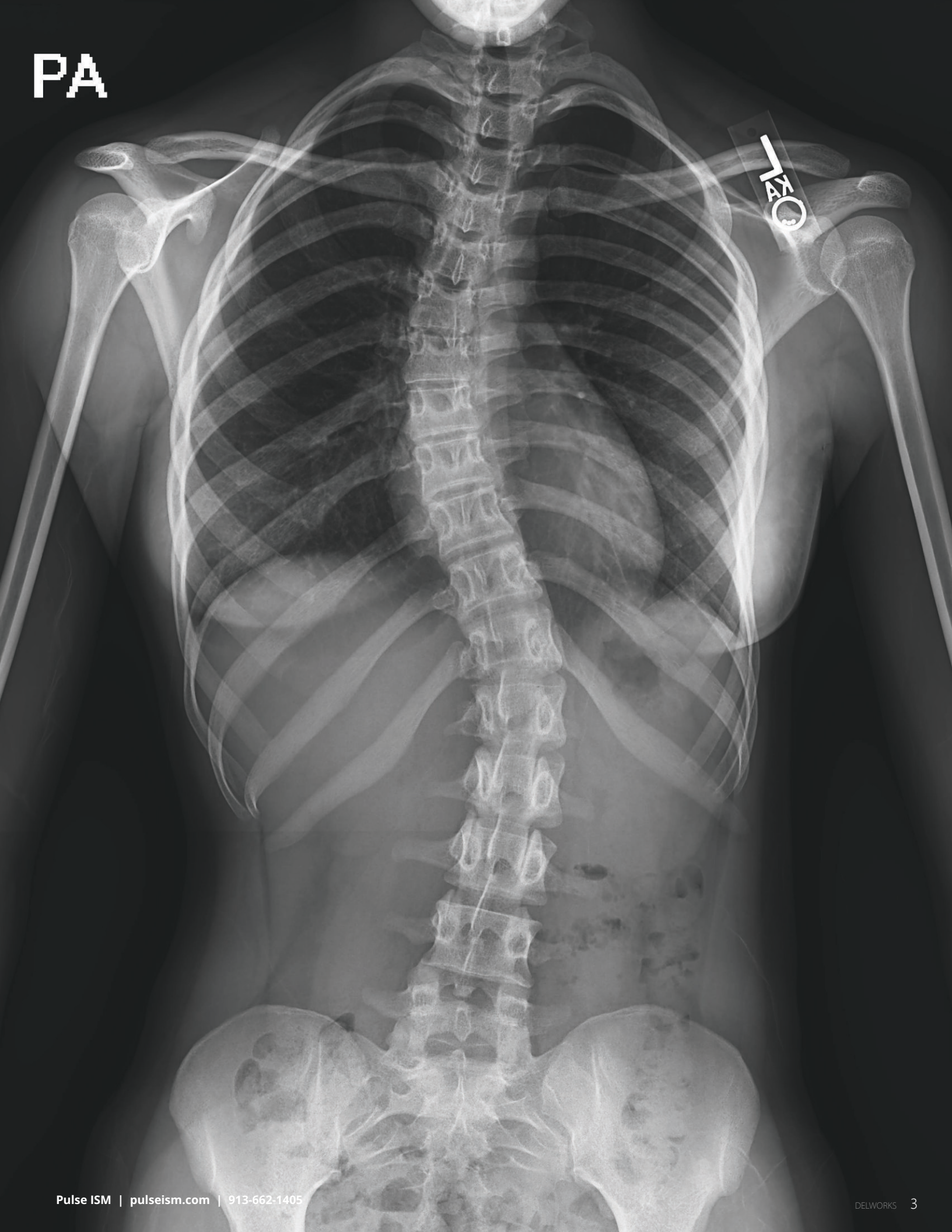
DICOM Connectivity (Store, Print, MPPS, MWL)



Image Stitching (Optional)



DELWORKS Desktop, Laptop and FIT Tablet workstation options


PA

Software Overview
DELWORKS

DELWORKS is a powerful image acquisition and processing software featuring a user-friendly interface that provides sophisticated and speedy medical imaging. Designed with complex system automation, DELWORKS aims to simplify the examination process by making the difficult decisions for you.

Advanced anatomical programming and image processing algorithms help optimize technologist productivity. DELWORKS strives to minimize human error and unwanted repeat exams to give technologists the highest quality image and lowest dose, with every exposure.

Software Features

- Pre-exposure display of patient and procedure information, x-ray generator exposure factors, status and control functions integrated in a single display screen
- Positioning guide: queues proper positioning for each view
- Deviation Index (DI) and Exposure Index (EXI): standard reporting to assist in dose minimization
- Exam-specific image processing algorithms automatically optimize images based on selected patient anatomy
- Automatically Programmed Radiography (APR) specific default values with manual adjustment
- Free image rotation and 90° steps, horizontal mirroring, automatic and manual image cropping to collimated area
- PC Options: Desktop with a 24 in touchscreen monitor, laptop, or tablet workstation
- Easy verification and correction of image laterality and patient orientation
- Intuitively add orientation markers and text comments directly to acquired images (pre-defined or text free)
- PICC tool applies enhanced processing to images for better visualization of leads, lines or tubes
- Effective management, analysis, and reporting of rejected images
- Detailed histograms of pixel density
- User selection of modified LUT (Look-Up Table) based on various exam types
- Measurement tools: full array of standard and specialty tools
- Manual adjustment of the LUT, window and level



An Array of Workstations

System comes with standard Windows 11 workstation and a 24 in monitor. May also add or substitute a laptop or tablet workstation.

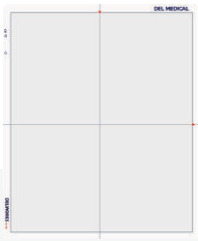
DELWORKS

PREMIUM DETECTORS



E24Cw2

Ultra-light, glass-free portable 10 x 12 in (24 x 30 cm) Cesium wireless detector for pediatric or imaging of smaller body parts



E14Cw2

Ultra-light, glass-free portable 14 x 17 in (35 x 43 cm) Cesium wireless detector for excellent image quality and flexibility



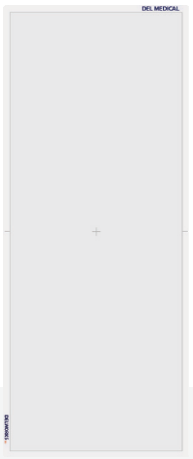
E17Cw2

Large format glass-free 17 x 17 in (43 x 43 cm) Cesium detector, fixed in the vertical wall stand or table providing the maximum imaging area with fast, wireless image transfer



E17C

Large format 17 x 17 in (43 x 43 cm) Cesium detector, fixed in the vertical wall stand or table providing the maximum imaging area with fast, wired image transfer



LLI

Monolithic (one piece), 17 x 42 in (43 x 107 cm), Cesium wireless and portable detector designed for full spine and leg imaging in a single exposure

EasyConnect

DELWORKS wireless detectors feature EasyConnect — an Auto Exposure Detection (AED) technology that keeps the detector in a standby mode, awaiting exposure from any x-ray source. Once an exposure is detected it instantly captures the x-ray image and transmits it wirelessly to the system workstation.

EasyShare

Detectors can be shared between multiple DELWORKS workstations, enhancing workflow, equipment utilization and economic feasibility.

Some examples for reference:

- Sharing an E14Cw$_2$ detector between the MDR mobile and OTC or FMT Radiographic Suite
- Sharing an E14Cw$_2$ and an E24Cw$_2$ detector between any DELWORKS in-room workstation and a DELWORKS FIT mobile workstation for imaging on the go



CyberSecurity

To provide exceptional patient care without interruption, it is critical for health care providers to have a secure environment, protected against cyberthreats such as viruses or ransomware. UMG/DEL MEDICAL takes our partnership in this seriously and is committed to providing safe, reliable, and secure systems. We deliver product security that helps you achieve compliance with Health Insurance Portability and Accountability Act (HIPAA). Together, we can increase security and privacy.

Product Overview

PORTABLE WORKSTATIONS

DELWORKS FIT

The DELWORKS FIT Portable Tablet Workstation aims to maximize the portability and efficiency of the DELWORKS software — utilizing it anytime, anywhere.

The user-friendly features of the DELWORKS software are beautifully translated to a rugged tablet PC, capable of withstanding even the harshest radiology (or non-radiology) environments. This handheld workstation features wireless connectivity, plenty of robust, secure solid-state storage space, and a powerful Intel® Core™ i5 processor to perform rapid and productive patient side studies, without limitations.



Tablet Features

- Process, review and accept acquired image(s) and wirelessly transfer directly to PACS
- Full-HD 11.6" wide viewing angle display
- Rugged tablet with both MIL-STD-810G and IP-65 ratings (Tested to handle multiple 4' drops, water, dust and splash resistance)
- Ultra-light, 3.53 lbs (1.6 kg) with single 2-cell battery

Charging and Screen Mirroring

Placing the DELWORKS Fit tablet in the docking station provides screen mirroring functionality when connected to a larger monitor display. This enables full screen image viewing for an in-room setting.

The docking station also charges the tablet and can be configured to send images via wired image transfer when the tablet is docked. Wireless image transfer is available directly from the tablet when the tablet is removed from the dock.

DELWORKS Laptop

The DELWORKS Laptop is an option for those who prefer portability combined with built-in keyboard input. This system includes a robust 256 GB Solid State Drive (SSD) and full HD 15.6" display for secure storage and outstanding image display quality.



Desktop
TECHNICAL SPECIFICATIONS

Processor:	13th Generation Intel Core i5-16500
Memory (RAM):	16 GB (2 x 8 GB) DDR5
Hard Disk Drive:	1 TB M.2 2230 NVMe Solid State Drive (SSD)
Operating System:	Microsoft Windows 11 Pro 64-bit (Standard) / Microsoft Windows 10 Enterprise LTSC 2019 64-bit (Optional)
Dimensions (WxDxH):	3.65 x 11.53 x 11.42 in (9.26 x 29.98 x 29 cm)
Weight:	8.1 lbs (3.68 kg) minimum 10.72 lbs (4.87 kg) maximum

Touchscreen Monitor

Display Type:	IPS LED-backlit LCD monitor / TFT active matrix
Display Size:	24 in (61 cm)
Aspect Ratio:	16:9
Native Resolution:	Full HD (1080p) 1920 x 1080 at 60 Hz
Pixel Pitch:	0.2745 mm
Dimensions (WxDxH):	21.2 x 9.8 x 12.6 in (53.8 x 24.9 x 32 cm)
Weight:	17.33 lbs (7.86 kg)

DELWORKS FIT

Processor:	8th Generation Intel Core i5-8365U
Memory (RAM):	8 GB LPDDR3
Hard Disk Drive:	256 GB M.2 NVMe Solid State Drive (SSD)
Operating System:	Microsoft Windows 11 Pro 64-bit (Standard), Microsoft Windows 10 Enterprise LTSC 2019 64-bit (Optional)
Display:	11.6 in Full HD Touchscreen w/ Gorilla Glass (1920 x 1080, Outdoor-Readable / Glove Capable)
Keyboard / Input:	Touchscreen
Battery:	2-cell (34 Wh) Lithium-Ion battery
Dimensions (WxDxH):	12.29 x 0.96 x 7.99 in (31.2 x 2.4 x 20.3 cm)
Weight:	2.93 lb (1.33 kg)

Laptop

Processor:	13th Gen Intel Core i5-1335U
Memory (RAM):	16 GB DDR4
Hard Disk Drive:	512 GB Solid State Drive (SSD)
Operating System:	Microsoft Windows 11 Pro 64-bit (Standard), Microsoft Windows 10 Enterprise LTSC 2019 64-bit (Optional)
Display Type:	IPS
Diagonal Size:	15.6 in
Aspect Ratio:	16:9
Native Resolution:	Full HD (1080p) 1920 x 1080
Wireless:	Intel® Wi-Fi 6E AX211, 2x2, 802.11ax
Battery:	3 Cell, 54 Wh Lithium-Ion battery
Power Adapter:	65 W AC adapter
Dimensions (WxDxH):	14.09 x 9.19 x 0.9 in (35.8 x 23.3 x 2.3 cm)
Weight:	3.56 lb (1.61 kg)

Detectors

	$E24Cw_2$	$E14Cw_2$	$E17Cw_2$	E17C	LLI
Scintillator:	Cesium	Cesium	Cesium	Cesium	Cesium
Detector Technology:	a-SI	a-SI	a-SI	a-SI	a-SI
Active Image Area:	24 x 30 cm	14 x 17 in (35 x 43 cm)	17 x 17 in (43 x 43 cm)	17 x 17 in (43 x 43 cm)	17 x 42 in (43 x 107 cm)
Pixel Size:	99 µm	99 µm	99 µm	148 um	139 um
A/D Conversion:	16 bits	16 bits	16 bits	16 bits	16 bits
DQE @ 0 lp/mm:	70%	70%	70%	65 % (DQE @ 0.05 lp/mm)	0.67/0.71/-
X-Ray Generator Voltage:	40 - 150 KV	40 - 150 KV	40 - 150 KV	----	40 - 150 KV
Spatial Resolution:	3.5 lp/mm	3.5 lp/mm	3.5 lp/mm	3.5 lp/mm	3.6 lp/mm
Auto Exposure Detection (AED):	Full-field	Full-field	Full-field	No	Yes
Data Interface:	IEEE 80211 ax NFC & Infrared	IEEE 80211 ax NFC & Infrared	IEEE 80211 ax NFC & Infrared	Ethernet cable	802.11/a/b/g/n 2.4 / 5 GHz or ethernet
Weight:	3.5 lbs (1.6 kg)	5.7 lbs (2.6 kg)	6.6 lbs (3 kg)	25.8 lbs (11.7 kg)	22 lbs (10 kg)

WORK WITH **PULSE ISM**

Compare before you choose.
We're a multi-manufacturer partner, so we can help you compare detectors for your rooms, exams and budget.

Grant-Ready Quote Package.
Itemized quote, certificates, W-9, SAM registration and capability statement, ready for your purchasing file.

Supported after installation.
Installation, training and service are coordinated through manufacturer-authorized partners.

We stay with you.
From the first call through installation, however long approvals and funding take.

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