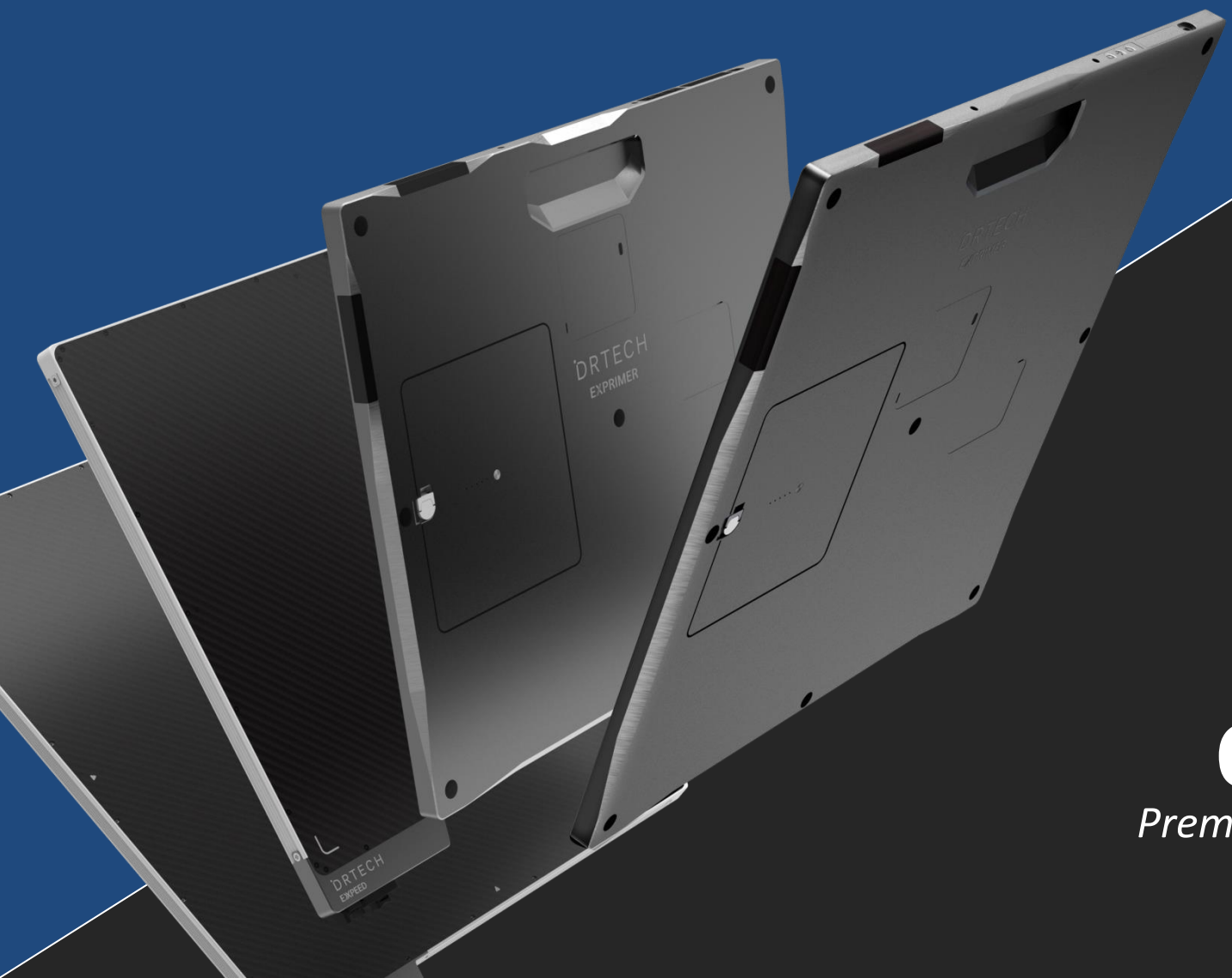
Minimum Radiation Dose
Maximum Diagnostic Accuracy

Premium FPD series by QX Platform
for General Radiography

DRTECH
www.drtech.co.kr

DRTECH



QX PLATFORM

Premium Series for Medical

What is QX Platform?

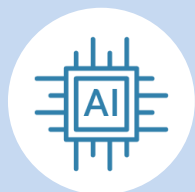
DRTECH

IGZO TFT
Designed by DRTECH

Ultra Low-Noise
Electronics

FOCUS Scintillator
Technology

State-of-the-art
Embedded SW



DEPAI™
AI Imaging Processing

Minimum Radiation Dose

30% or more
Dose Reduction

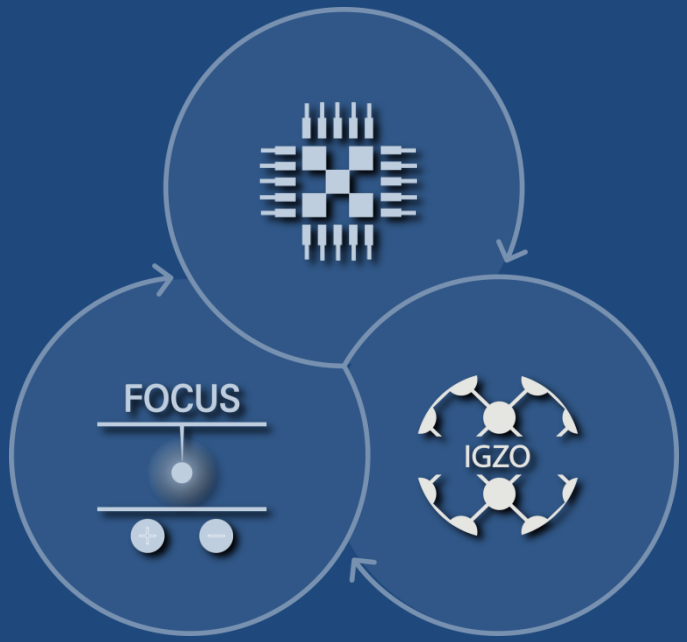
2.5X
Higher DQE

Maximum Diagnostic Accuracy

2.5X
Higher
Performance

2.5X
Higher Visibility

DRTECH

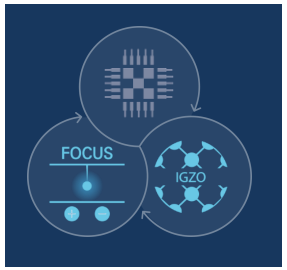


Ultra Low-Noise
Electronics

FOCUS Scintillator
Technology

IGZO TFT
Designed by DRTECH

For Minimum Radiation Dose



Panel technology by QX Platform

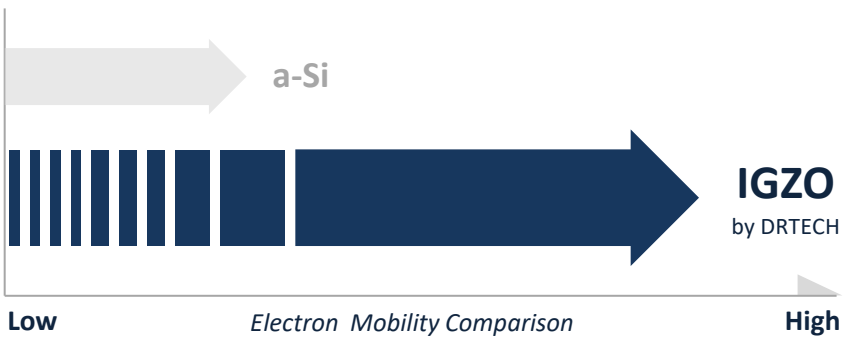
for High Resolution & Noise reduction

DRTECH

High resolution IGZO TFT

designed by DRTECH

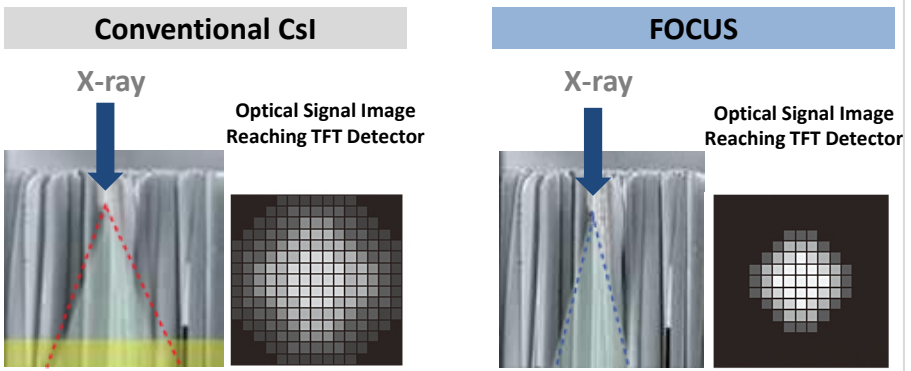
QX platform's **IGZO** Technology has been developed by DRTECH and has 10 times faster electron mobility combined with lower leakage current compared to less-advanced TFTs. As a result, the IGZO TFT Technology **has improved resolution by Ultra Noise reduction.**



10 times faster electron mobility compared to conventional a-Si

Noise Reduction by FOCUS Scintillator Technology

FOCUS (Fluorescent Optical CsI Upgraded Structure) Scintillator Technology successfully eliminates noise caused by light scattering. Due to **noise reduction** by FOCUS Scintillator, **high resolution** has become possible.



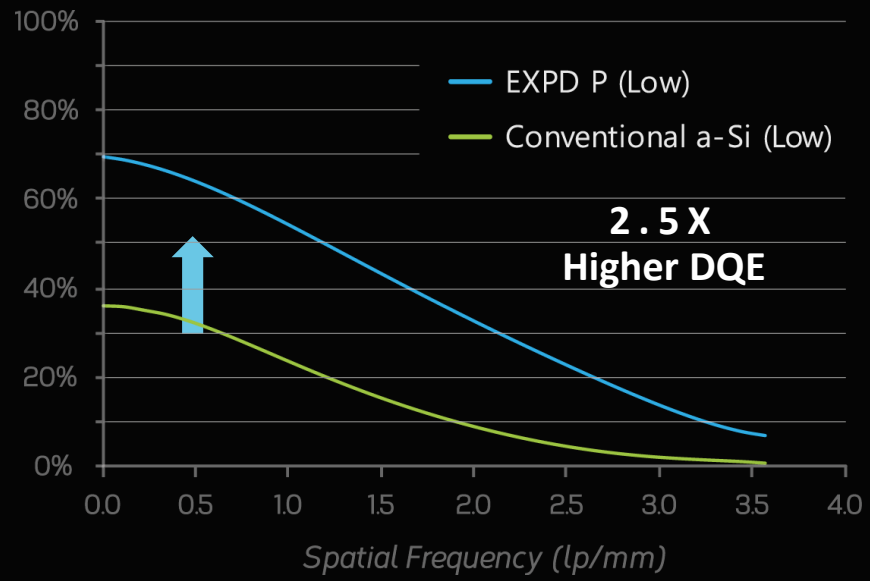
High resolution with low-noise

2.5 X High DQE bringing 30%
dose reduction

DRTECH

High DQE indicates that **less radiation** is needed to achieve identical image quality because DQE is a combined effect of noise and resolution. with noise reduction and high resolution by IGZO TFT & FOCUS technology, **2.5X higher DQE value brings 30% or more dose reduction** compared to less-advanced DR.

Low Dose DQE Comparison



Remarkable Dose Reduction

Low Dose (38.7 µGy)

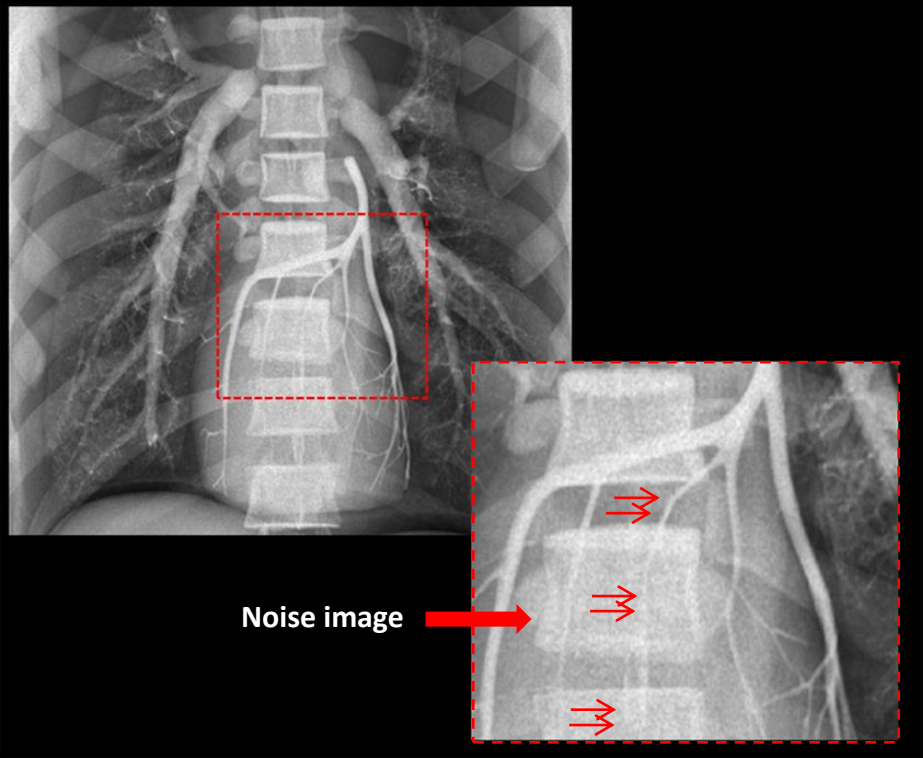
30% or more

Image Quality Comparison By QX Platform

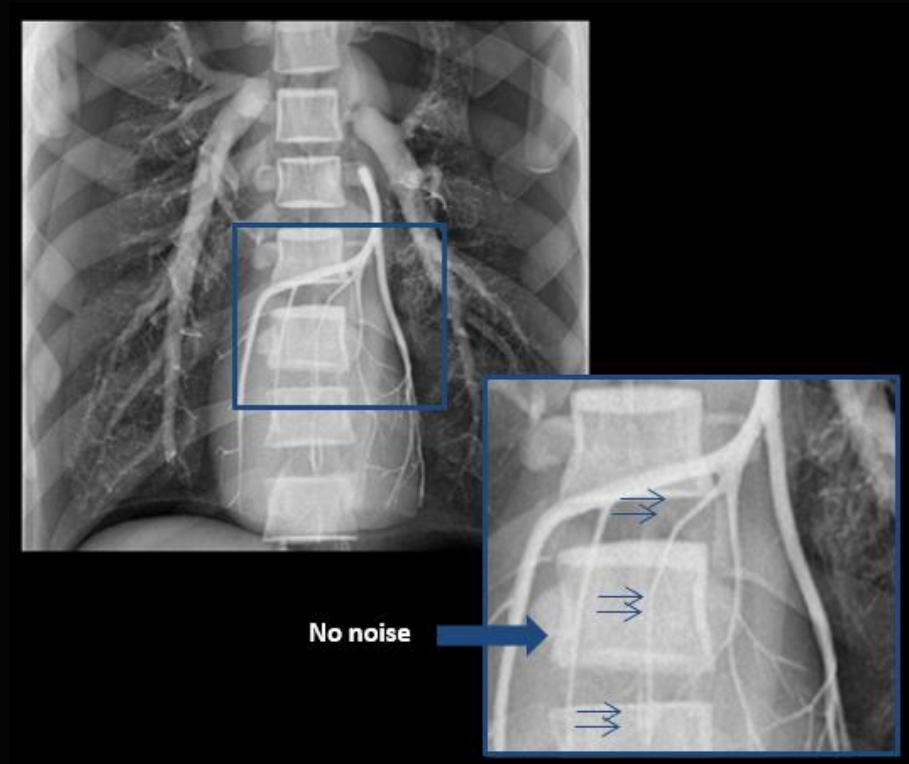
DRTECH

- Improved diagnostic accuracy by clear cardiovascular image quality
- **30% or more dose reduction** compared to less-advanced DR technology

Less-advanced DR



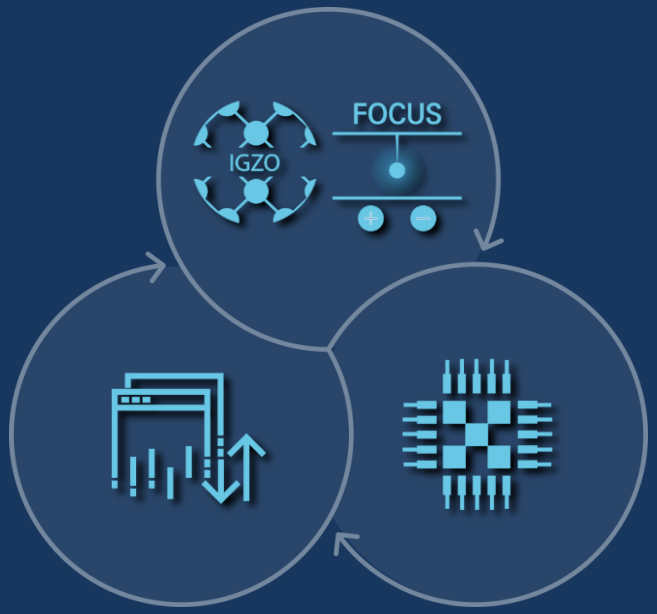
EVS P series by QX Platform



In Same Dose Condition : 100kVp_320mA_2.01mAs (ESD_ Entrance Surface Dose : 18mGy)

DRTECH

IGZO TFT & FOCUS
Technology



State-of-the-art
Embedded SW

DEPAI ™ AI &
TRUVIEW® ART

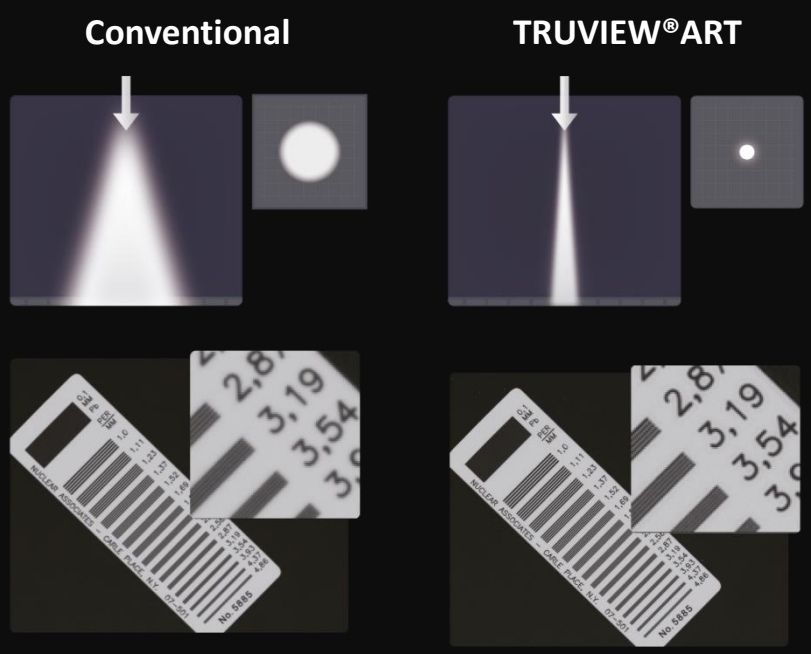
For Maximum Diagnostic Accuracy

Pre-imaging processing by TRUVIEW®ART

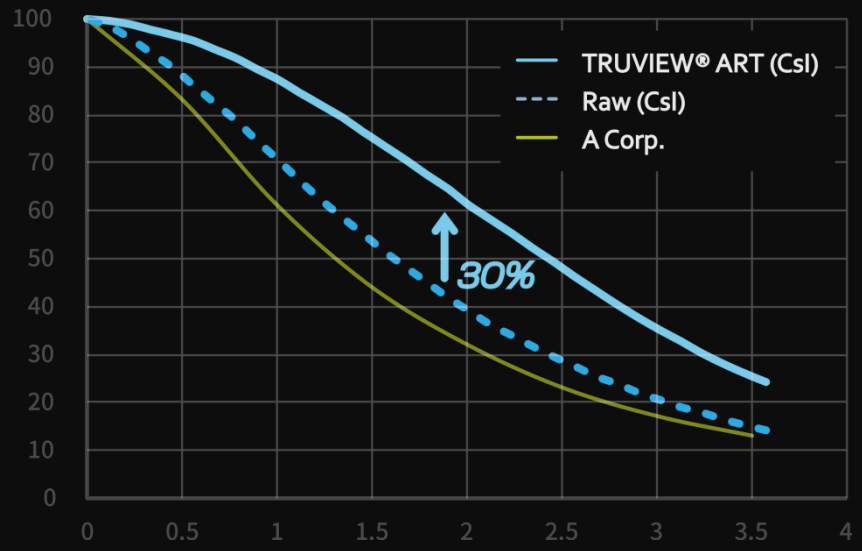
(TRUVIEW®ART: Advanced image Reconstruction Technology)

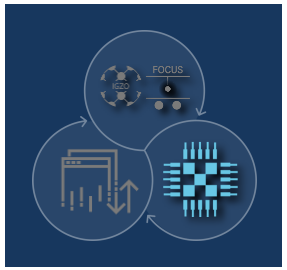
DRTECH

MTF performance provides better understanding of the **image quality.** Higher MTF value correlates with increase in image sharpness. DRTECH's proprietary image processing algorithm, TRUVIEW®ART increases MTF performance of indirect type (CsI) by removing the light scatter **improving the image sharpness.**



TRUVIEW®ART Increases MTF up to 30%, Increasing the possibility of detecting minor lesions and abnormalities



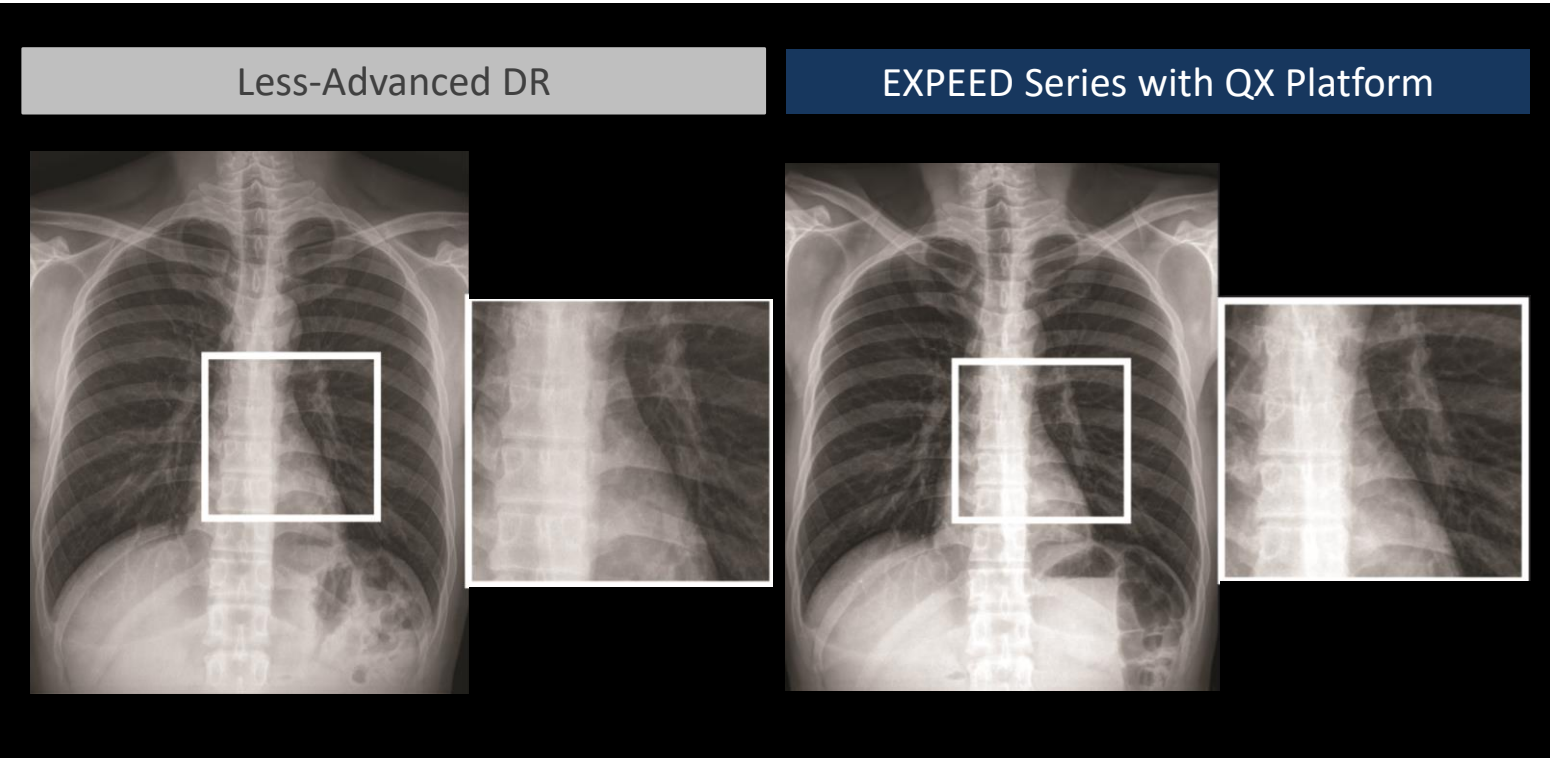


Post-imaging processing - DEPAI™AI

(DEPAI ™ : Deep Learning based Image Processing)

DRTECH

DRTECH has sought to develop AI imaging processing, after years of hard work DEPAI™ AI is successfully launched.
With **DEPAI** (Definition Enhancement Processed Advanced Imaging) AI algorithm, EVS P series by QX platform has **2.5 X higher visibility** and improved **detectability** for micro-abnormalities frequently observed in pre-pneumonia or COVID-19 cases.



Benefits of DEPAI™

- ✓ **Increased Diagnostic Accuracy**
- ✓ **Increased Image Quality Consistency**
- ✓ **Increased Visibility for anatomical details**

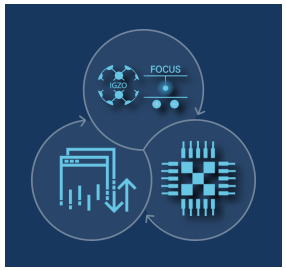
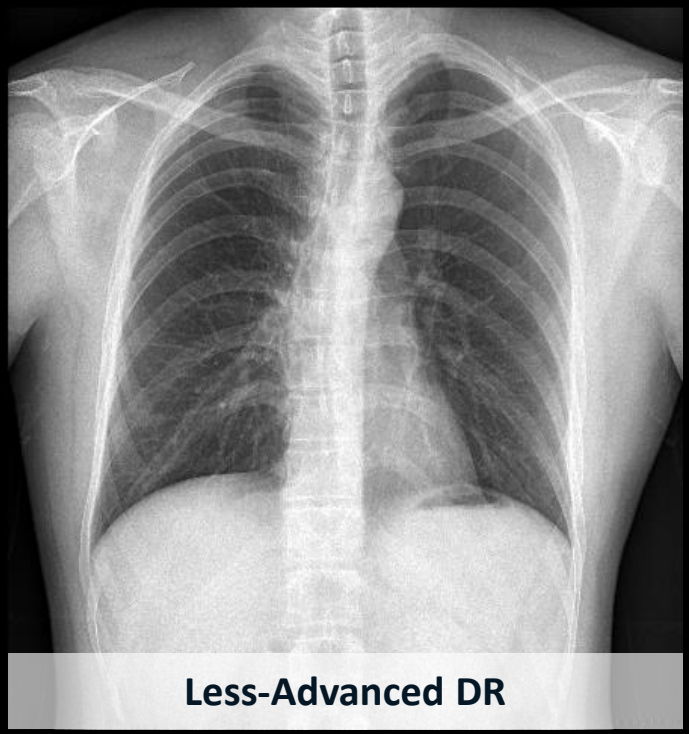


Image Quality Improvement by QX Platform

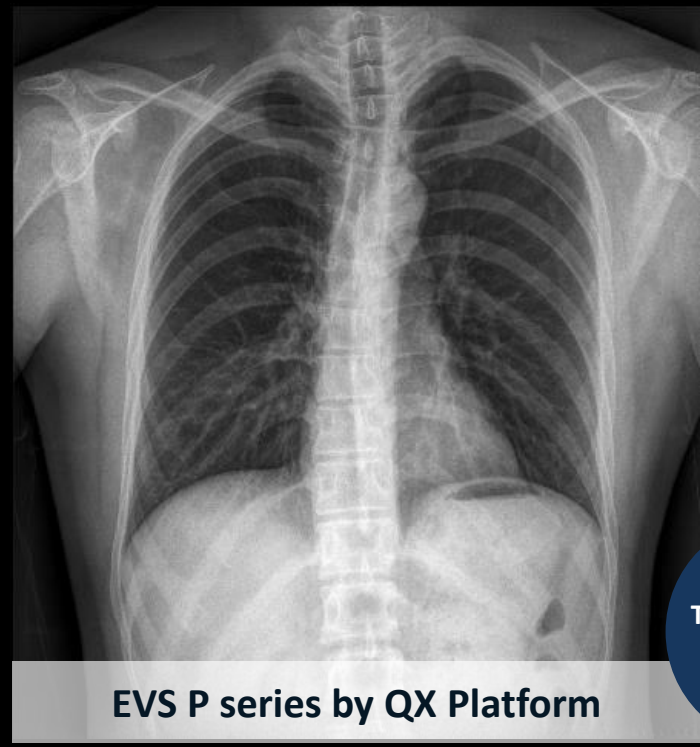
2X Higher Visibility by TRUVIEW®ART & DEPAI™ AI

DRTECH

Supported by **2 times imaging processing** by **TRUVIEW®ART & DEPAI™AI**, the visibility has been innovatively improved.
Compared to less-advanced DR system, QX Platform provides **2.5X higher diagnostic visibility.**



Less-Advanced DR



EVS P series by QX Platform

TRUVIEW®ART & DEPAI™AI

In same Condition : 110kVp 200mA 3.2mAs SID 180cm with Fixed Grid(103LP Ratio 10:1)

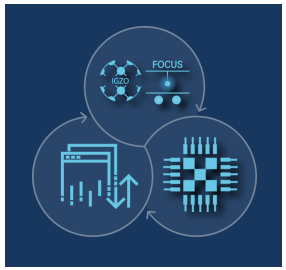


Image Quality Improvement by QX Platform

2X Higher Visibility by TRUVIEW®ART & DEPAI™AI

DRTECH

Supported by **2 times imaging processing** by **TRUVIEW®ART & DEPAI™AI**, the visibility has been innovatively improved.
Compared to less-advanced DR system, QX Platform provides **2.5X higher diagnostic visibility.**

Less-Advanced DR

EVS P series by QX Platform

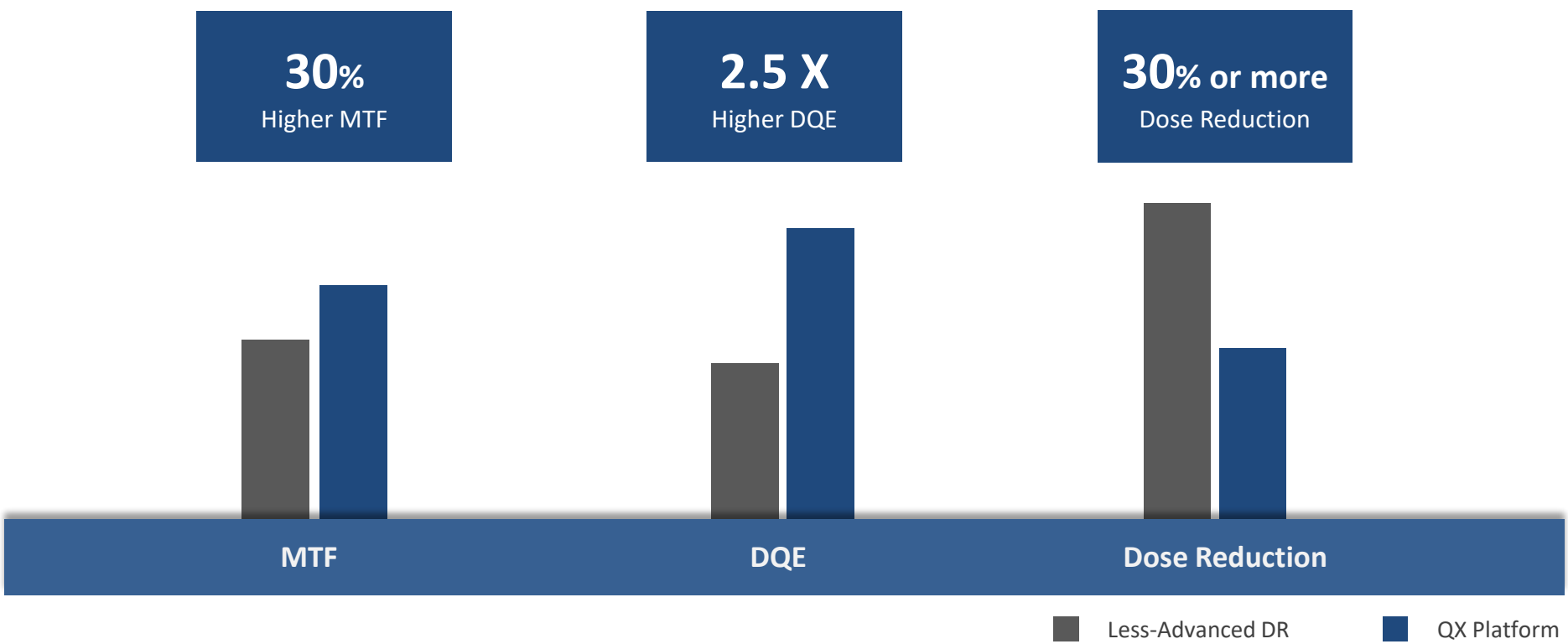
TRUVIEW®ART & DEPAI™AI

In same Condition : 110kVp 200mA 3.2mAs SID 180cm with Fixed Grid(103LP Ratio 10:1)

DRTECH

Performance Comparison
QX Platform vs. Less-Advanced DR

“ Minimum Radiation Dose Maximum Diagnostic Accuracy ”



Premium Series
by QX PLATFORM

Minimum
Radiation Dose

30%
or more
Dose Reduction

X2.5
Higher DQE

Maximum
Diagnostic Accuracy

x2.5
Higher
Visibility

X2.5
Higher
Performance

EVS Premium Series by QX Platform

Introducing EXPRIMER premium series by QX Platform

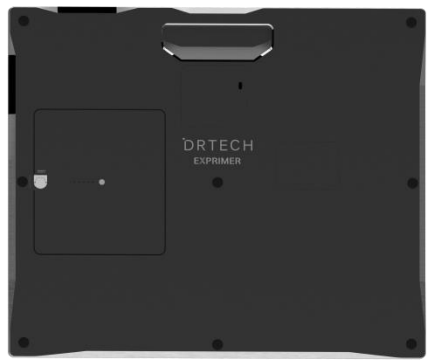
Available in various sizes with wired and wireless configurations,
EXPRIMER will provide the perfect imaging performance for every imaging requirements.

Wired EVS P Series by QX Platform

EXPD3643P

EXPD4343P

Wireless EVS P Series by QX Platform



EVS3643WP

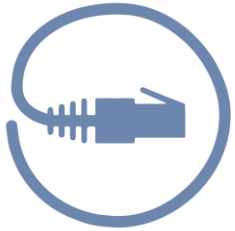
EVS4343WP

High Performance Static & Multi-frame application

EXPD 3643P/ 4343P by QX Platform

Multi Frame Function

Single LAN Cable Interface



Fast Workflow

- Multi-purpose detector for high performance static & multi-frame applications
- Flexi-wired single LAN Cable interface for fast & straight-forward installation
- Fast workflow for maximum patient throughput

EXPD 3643P / 4343P Benefits

Multi-purpose Detector with High Performance

DRTECH

Multi Frame Function

Multi Frame Function to Support Multi-frame Modality

EXPD 4343P is truly a multi-purpose detector supporting various applications.
With high frame rate, it can also be integrated into an X-ray system as a multi-frame application.

EXPD 3643P / 4343P Applications

Tomosynthesis

Premium

General Radiography System

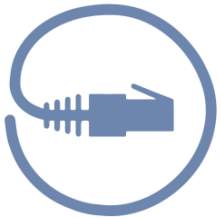
High Performance

Retrofit General Radiography

DES (Dual Energy Subtraction)

EXPD 3643P / 4343P Benefits

Single LAN Cable Interface

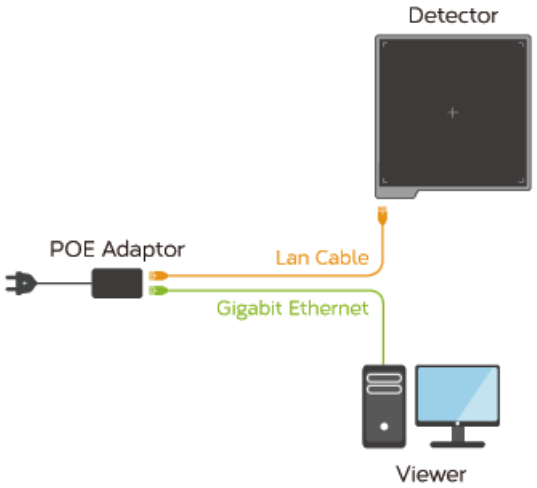


Single LAN Cable Interface

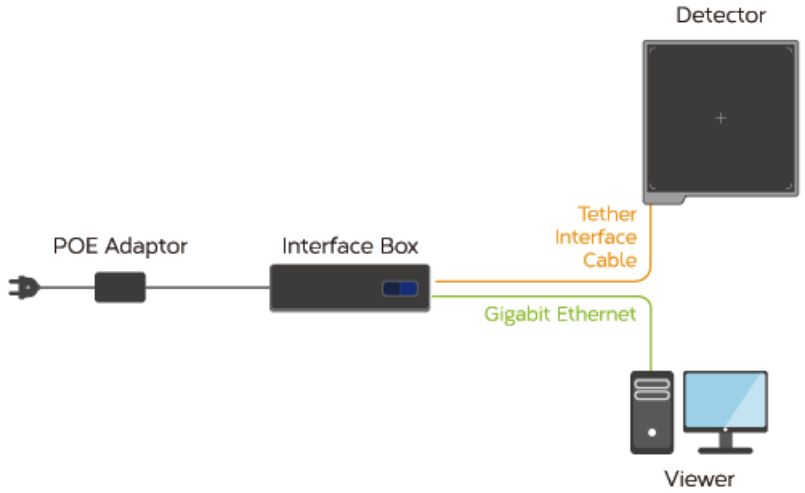
Single LAN cable Interface for Easy and Fast Installation

Only with POE adaptor, detector installation is finished.
With elimination of the Interface box, detector to X-ray integration is simplified.

EVS P series Configuration



Other Wired Detector Configuration



EXPD 3643P / 4343P Spec. Overview Summary

Product Model	EXPD P Series (EXPD 3643P/EXP4343P)
Scintillator	FOCUS CsI:Tl
Panel Technology	IGZO TFT
Weight	EXPD 3643P: 3.5kg ± 3% EXPD 4343P: 4.3kg ± 3%
Ingress Protection Rating	IP53
Pixel pitch	140µm
Dynamic Range	16 bits
Resolution	EXPD 3643P: 2,560 x 3,072 EXPD 4343P: 3,072 x 3,072
Frame Rate	EXPD 3643P: 7fps(1x1), 14fps(2x2), 18fps(3x3) EXPD 4343P: 6fps(1x1), 12fps(2x2), 12fps(3x3)
HW configuration	Detector & LAN Cable
X-ray Sync.	Lossless AED/AWC, D-sub connector
Easy Installation SW Support	Easy Installation SW provided
Simple HW diagnosis	O
Image Enhancement Algorithm	TRUVIEW® ART / DEPAI™AI

Powerful Performance for Wireless Application

EVS 3643WP / 4343WP by QX Platform

Error-less
@ Wireless

Easier Interface
By USB C type connection

Dust & Waterproof

24hr Power supply
By WPCS

- **Multi-purpose detector for high performance x-ray imaging applications**
- **Flexi-wired single LAN cable interface for fast & straight-forward installation**
- **Fast workflow for maximum patient throughput**

EVS 3643WP / 4343WP Benefits

Detector Features for Ultimate Portability

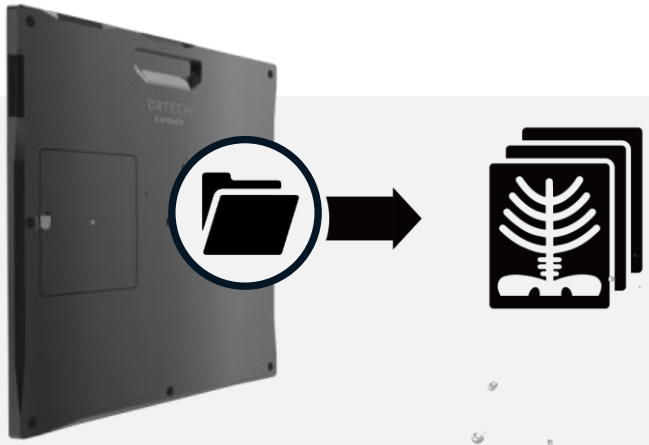
DRTECH

Error-less
@ Wireless

Error-less performance at wire-less

Unlike less-advanced DR technology, EVS WP provides stable and perfect wireless performance for image acquisition. Also thanks to built in memory,
there is no need to worry for losing x-ray images caused by connection failure.

Reliable
2.5GHz & 5GHz
Wifi performance



Dust &
Waterproof

Dust & Waterproof IP54

Designed to prevent the infiltration of liquids, there is no need to worry for fluids such as blood or vomit could enter the device.

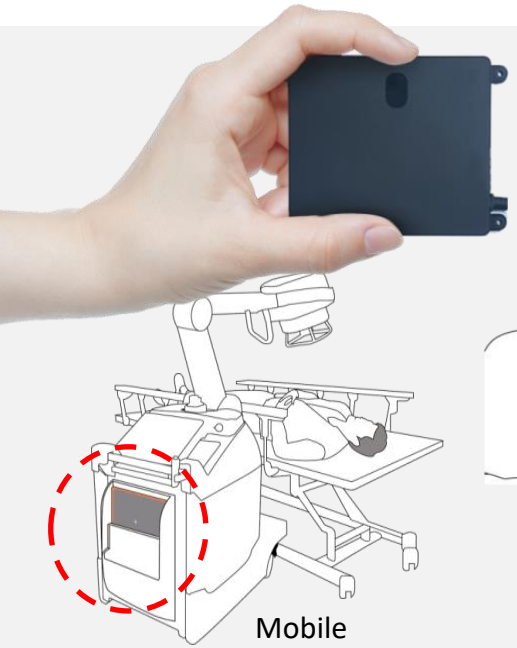
EVS 3643WP / 4343WP Benefits

Wireless Power Charging System (WPCS)

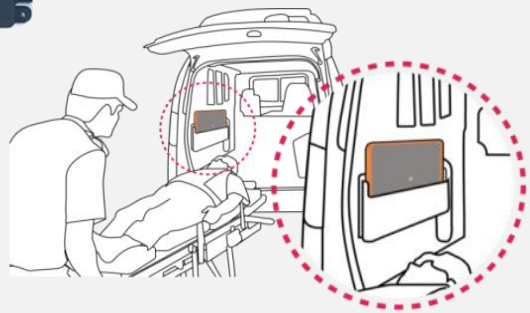
24hr Power supply By WPCS

24hr Power Supply by Wireless Power Charging System

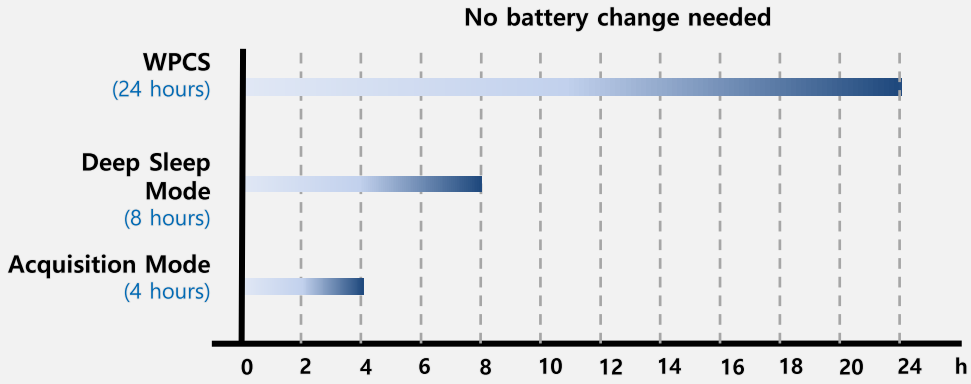
World's first WPCS enables seamless 24hr wireless operation for perfect portability with fast and effective power supply.



Mobile



Vehicle
(Ambulance & Pick up)



EVS 3643WP / 4343WP Spec. Overview Summary

Product Model	EVS WP Series (EVS 3643WP/EVS 4343WP)
Scintillator	FOCUS CsI:Tl
Panel Technology	IGZO TFT
Weight	EVS 3643WP: 2.9kg ± 3% EVS 4343WP: 3.4kg ± 3%
Ingress Protection Rating	IP54
Pixel pitch	140µm
Dynamic Range	16 bits
Resolution	EVS 3643WP: 2,560 x 3,072 EVS 4343WP: 3,072 x 3,072
HW configuration	Detector & USB C-type
X-ray Sync.	Lossless AED/AWC
Easy Installation SW Support	Easy Installation SW provided
Simple HW diagnosis	O
Image Enhancement Algorithm	TRUVIEW® ART / DEPAI™ AI

Thank You