



# FURIX

FXP series

**Furix Portable High-frequency X-ray Machine**



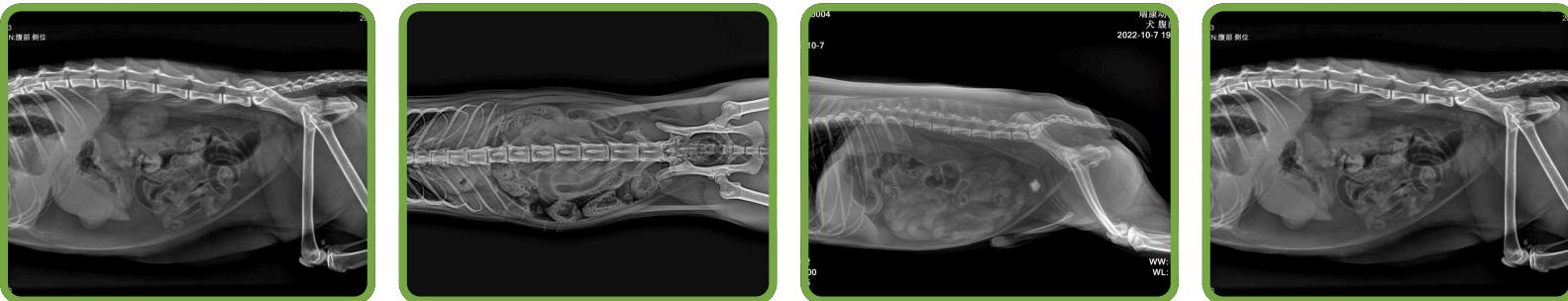
Furix presents a cutting-edge range of high-frequency portable X-ray machines, designed to meet the needs of veterinary, medical, and emergency radiology. With powerful performance, compact size, and superior imaging capabilities, these machines ensure efficiency, precision, and ease of use.



- ▶ **Precision Imaging** : Clear, high-resolution X-ray images with optimized exposure settings.
- ▶ **User-Friendly Interface** : Simple controls for fast and efficient operation.
- ▶ **Reliability & Safety** : Built with advanced components for consistent performance and radiation safety.



	FXP125	FXP80	FXP56
Power	12.5 kW	CF-type components	CF-type components
Power Supply	220VAC,60/50Hz	220VAC/110VAC, 60/50Hz	220VAC/110VAC, 60/50Hz
Working frequency	220kHz	100kHz	100kHz
Kv Range	40-130kV	40-125kV	40-120kV
mA Range	20~160mA,10 Adjustable Gears	20~125mA,9 Adjustable Gears	20~100mA,8 Adjustable Gears
s Range	0.01s-10s	0.01s-6.3s	0.01s-6.3s
mAs Range	0.1mAs~ 630mAs	0.1mAs~ 400mAs	0.1mAs~ 320mAs
Exposure Mode	Manual and Remote Control	Manual and Remote Control	Manual and Remote Control
Size ( L *W * H )	360*245*230	330*245*230	330*245*230
Weight	20kg	16.8kg	16.8kg



Moduler Design



Small Size



Light Weight



Exposure Operation With Touch Screen Remote Control

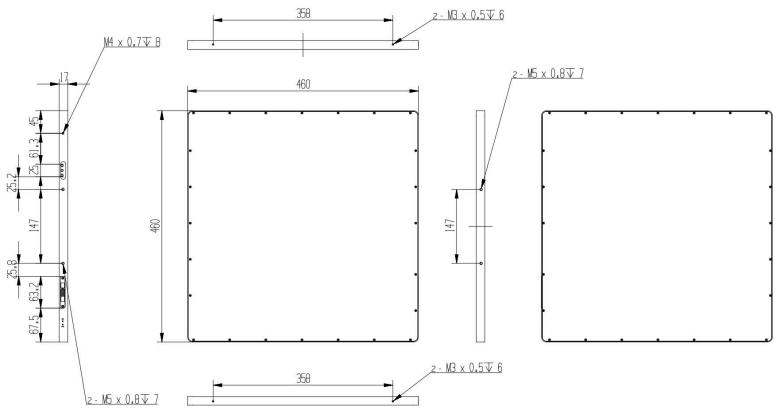
## Furix Trade Venture Limited

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# FURIX



# We Care For Your Pets



0

**FNP - 4343**

- is a portable wired FPD with a  $43 \times 43$  centimeter imaging, providing a comprehensive view of more details through large-area imaging. The all-new generation of direct growth CsI, with low dose and high sensitivity, achieves high-resolution quality of tens of millions. Gigabit high-speed transmission, 1-second imaging. To better enhance the radiation resistance of the equipment, radiation protection is applied to electronic components from the inside, resulting in longer service life.



**FNP-4343**

Model	3072×3072
Pixel Matrix	a-Si
Detector Technology	GOS/CsI
Scintillator	430 × 430
Image Size(mm x mm)	139
Pixel Pitch(um)	16
A/D Conversion(bit)	3.6
Spatial Resolution(lp/mm)	260mm
MTF 0.5 LP/mm	0.87±0.02
MTF @ 1.0 LP/mm	0.67±0.02
MTF @ 1.5LP/mm	0.49±0.02
MTF @2.0LP/mm	0.37±0.02
MTF @ 2.5 LP/mm	0.28±0.02
MTF @ 3.0 LP/mm	0.21±0.02
MTF @ 3.5 LP/mm	0.15+0.02

<b>DOE 0.0 LP/mm</b>	0.72 0.02
DOE @ 0.5 LP/mm	0.64±0.02
DQE @ 1.0 LP/mm	0.55+0.02
DQE @1.5 LP/mm	0.47±0.02
<b>DQE @ 2.0 LP/mm</b>	0.41±0.02
DQE @ 2.5 LP/mm	0.32+0.02
DOE @ 3.0 LP/mm	0.2010.02
DOE @3.5 LP/mm	0.16±0.02
<b>Ghost(300 Gy, 60s) capacity</b>	-D.25%
<b>Data Interface</b>	<0.25%
<b>Protection Grade</b>	Gigabit network
<b>X-ray Voltage Range</b>	40 kV ~ 150 kV
<b>Detector Weight(kg)</b>	4.0
<b>Power Dissipation(W)</b>	15
<b>Temperature Range(°C)</b>	15 5~40(Running) -10-50(Depositing)
<b>Humidity range(%)</b>	10-70(Running) 5-75(Depositing)

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# FURIX

Focus on the research and development of photo- electric technology and core devices in the field of rays, including: integrated X-ray micro-focus light source, split X-ray high-power light source, X-ray FPD, multi-energy spectrum detector, and can provide customized services according to user and industry needs.

The three co-founders of the company have worked in overseas Fortune 500 enterprises for more than 10 years, and have rich experience in technology accumulation and product research and development. Founder Professor Dai was deeply involved in the development of Philips' first generation of microfocus ray tubes, and was also the core developer of the early Trixell FPD.



Stabilize



High Speed



Low noise



Better imaging



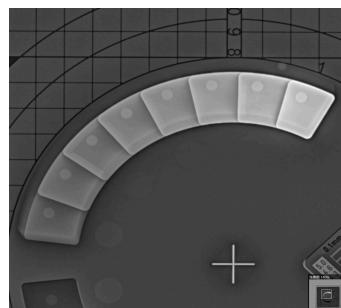
### Technical Advantage

- 01 The detector can operate continuously for  $7 \times 24\text{h}$
- 02 High stability, no performance degradation during continuous operation.
- 03 Under the same hardware conditions, the frame rate is more high
- 04 On-board level optimization , the CPU usage of the computer host is very low.
- 05 Unique chip cooling technology reduces thermionic noise.
- 06 The detector integrates a denoising algorithm to obtain low noise images.
- 07 Under the same imaging conditions, the imaging index is improved by one level.
- 08 Can provide rich image algorithm processing set to customers.



### Image Comparison

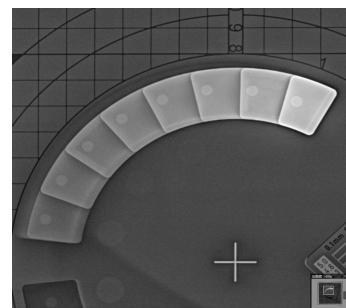
- Under the same conditions, the imaging comparison with a foreign brand detector.
- Our detector imaging noise is lower and useful features do not get annihilated.
- Pass the highest contrast test available in the medical industry.
- All tests are based on IBA standard test body.



RayOpto

Low visible noise

The highest difficulty contrast features are clearly visible



A Foreign brand

More noise, fine spots after amplification

Contrast is down two levels

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# FURIX

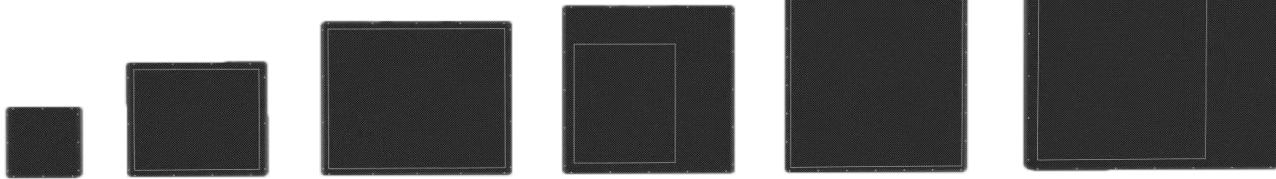
X-ray flat detector is a photosensitive and imaging device used to receive X-rays and convert them into digital signals, which is widely used in industrial, medical and security fields.

Industrial field: Used for casting non-destructive testing, circuit board testing, semiconductor package testing, lithium battery testing, food safety testing, etc.

Medical field: Includes all X-ray devices except CT, including DR (wired and wireless), DRF(dynamic DR), DM(breast), CBCT(dental CT) DSA (Interventional, vascular), C-arm (surgery), IGRT(radiotherapy).

-Pet field: Pet DR, pet CT.

Security field: Used for security check in public places, vehicle container inspection, suspicious package investigation, etc.



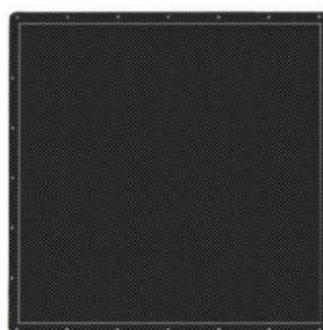
## FNS - 4343 Series

- The FNS 4343 series is a wide-field flat panel detector for common inspection environments. The effective imaging area of 43cm×43cm, in the detection
- environment of matching cone-beam irradiation, gives the detection personnel the largest single visual range, effectively shorting the detection time and
- improving the work efficiency. Larger imaging area, observation can be more comprehensive assessment of the image may be hidden defects, to ensure that
- the detection is foolproof.
- The FNS 4343P series reconstructs the radiation protection of electronic components from the structure, greatly improves the radiation resistance
- characteristics of the plate in principle, and extends the service time. Depending on the specific application, there are many types of detectors with different
- configurations to match the complex detection environment and high image quality requirements.

Large Field of view - Get large, high-quality X-ray images with more detail in just one shot.

Higher resolution - a variety of pixel sizes are optional, under different image quality standards, select the appropriate pixel size as needed to obtain more suitable image resolution power and transparent image effect

More protection - Heavy new plastic radiation protection structure, more safe to use.



FNS4343    FNS4343P    FNS4343PR  
FNS4343S    FNS4343R    FNS4343SPR

## Sensitivity Test

- Under the same conditions, our detector sensitivity is higher, up to 0.5%, far more than the peer's 1-2%
- All tests are based on a standard monofilament quality meter.



Master drawing



After algorithm proccessing

The thickness of the thicker step test block below is 20mm, and it can be seen that the sensitivity of #16 wire is  $0.1\text{mm}/20\text{mm}=0.5\%$

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# FURIX



# Technical Parameter

MODEL	FNS 4343	FNS 4343S	FNS 4343P	FNS 4343R	FNS 4343PR	FNS 4343SPR
pixel matrix	3072×3072	3072×3072	3072×3072	3072×3072	3072×3072	3072×3072
Detector Technology	a-Si	a-Si	a-Si	a-Si	a-Si	a-Si
Scintillator	GOS/CsI	GOS/CsI	GOS/CsI	GOS/CsI	GOS/CsI	GOS/CsI
Image Size (mm×mm)	430×430	430×430	430×430	430×430	430×430	430×430
Pixel Pitch (μm)	139	139	139	99	99	99
A/D Conversion (bit)	16	16	16	16	16	16
Spatial Resolution (lp/mm)	3.6	3.6	3.6	5	5	5
FPS	6 (1×1) 15 (2×2) 20 (4×4)	20 (1×1) 35 (2×2)	6 (1×1) 15 (2×2) 20 (4×4)	15 (2×2)	15 (2×2)	20 (1×1) 35 (2×2)
Maximum exposure time (s)	---	---	---	---	---	---
Data interface	Gigabit network	Gigabit network	Gigabit network	Gigabit network	Gigabit network	Gigabit network
X-ray Voltage Range	40kV~150kV	40kV~150kV	40kV~150kV	40kV~150kV	40kV~150kV	40kV~225kV
Protection Grade	IP65	IP65	IP65	IP65	IP65	IP65
Dimensions (mm×mm×mm)	460×460×15	460×460×15	467×467×20	460×460×15	467×467×20	467×467×20
Weight (kg)	4.0	4.0	14.0	4.0	14.0	14.0
Power consumption (W)	15	25	15	15	15	25
Temperature range (°C)	5 ~ 40(run) -10 ~ 50(storage)	5 ~ 40(run) -10 ~ 50(storage)	5 ~ 40(run) -10 ~ 50(storage)	5 ~ 40(run) -10 ~ 50(storage)	5 ~ 40(run) -10 ~ 50(storage)	5 ~ 40(run) -10 ~ 50(storage)
Humidity range(%)	10 ~ 70(run) 5 ~ 75(storage)	10 ~ 70(run) 5 ~ 75(storage)	10 ~ 70(run) 5 ~ 75(storage)	10 ~ 70(run) 5 ~ 75(storage)	10 ~ 70(run) 5 ~ 75(storage)	10 ~ 70(run) 5 ~ 75(storage)
use	Conventional DR Material dispenser	Fast DR	High Protection	High resolution DR	High Protection High resolution DR	High speed, High protection High resolution DR

## FNS 3025 Series

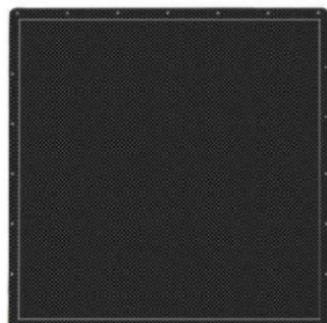
### Compact, Tougher, Real - Time

- The 34 cm×25 cm imaging area of the RNS 3025 series is the widely accepted medium imaging field size. The compact design is more suitable for inspection work where space is limited. The RNS3025 series provides a more focused observation area when focusing only on the mass state at a specific location. The high-protection design of the RNS 3025PR series is designed for environments with extremely high radiation doses for inspection, and the robust design of high irradiation also includes a resolution that exceeds the industry average. In order to make Real-Time imaging technology in industrial Xray digital imaging widely available, certain models in the RNS 3025 series meet the requirements of replacement image intensifiers with imaging areas larger than 9 inches, with speeds up to 24fps without compromising resolution. In addition, the dynamic image equivalent to that without delay and shadow can be obtained

Compact and focused - focused observation, widely recognized for medium imaging size.

Strong and sharp - Choose the version with high radiation protection design, you will also find that the image resolution is more distinctive.

Real-Time and crisp - the best alternative to industrial TV (Real-Time) without compromising the analytical power, the image without shadow, clean and crisp.



# Technical Parameter

MODEL	FNS 3025	FNS 3025S	FNS 3025PR	FNS 3025SPR
pixel matrix	3072×2432	3072×2432	3072×2432	3072×2432
Detector Technology	a-Si	a-Si	a-Si	a-Si
Scintillator	GOS/CsI	GOS/CsI	GOS/CsI	GOS/CsI
Image Size (mm×mm)	310×245	310×245	310×245	310×245
Pixel Pitch (μm)	139	139	99	99
A/D Conversion (bit)	16	16	16	16
Spatial Resolution (lp/mm)	3.6	3.6	5	5
FPS	6 (1×1) 11 (2×2)	20 (1×1) 40 (2×2)	6 (1×1) 11 (2×2)	15 (2×2)
Maximum exposure time (s)	---	---	---	---
Data interface	Gigabit network	Gigabit network	Gigabit network	Gigabit network
X-ray Voltage Range	40kV~150kV	40kV~150kV	40kV~225kV	40kV~225kV
Protection Grade	IP65	IP65	IP65	IP65
Dimensions (mm×mm×mm)	345×320×15	345×320×15	345×320×25	345×320×25
Weight (kg)	4.0	4.0	8.5	8.5
Power consumption (W)	15	25	15	25
Temperature range (°C)	5 ~ 40(run) -10 ~ 50(storage)	5 ~ 40(run) -10 ~ 50(storage)	5 ~ 40(run) -10 ~ 50(storage)	5 ~ 40(run) -10 ~ 50(storage)
Humidity range(%)	10 ~ 70(run) 5 ~ 75(storage)	10 ~ 70(run) 5 ~ 75(storage)	10 ~ 70(run) 5 ~ 75(storage)	10 ~ 70(run) 5 ~ 75(storage)
use	Conventional DR Material dispenser	Ultra-high speed DR Ultra-high speed CT	High protection High resolution DR	Ultra-high speed CT High protection High resolution DR



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# FURIX



## FNS 1613

### Thunder booster, Well balanced with Speed, Sharpness, Contrast.

- The FNS1613 series is a flat panel detector that balances speed, sharpness and contrast. Up to 30FPS imaging speed, full high-speed X-ray detection without delay efficiency requirements. Get the X-ray image moving in real time. At high magnification, the combination of 125 microns at 16cm × 13cm can meet most requirements for detail resolution. The pixel size of 125μm allows sufficient absorption of the radiation dose at low doses, thereby improving the overall contrast sensitivity of the image. Let the deficiency be separated from the context more thoroughly



## Technical Parameter

MODEL	FNS 1613
pixel matrix	1280x1024
Detector Technology	a-Si
Scintillator	GOS/CsI
Image Size (mm×mm)	160x130
Pixel Pitch (μm)	125
A/D Conversion (bit)	16
Spatial Resolution (lp/mm)	4
FPS	30 (1x1)
Maximum exposure time (s)	-
Data interface	-
X-ray Voltage Range	40kV~150kV
Protection Grade	IP65
Dimensions (mm×mm×mm)	170x250x18
Weight (kg)	1
Power consumption (W)	12
Temperature range (°C)	5 ~ 40(run) -10 ~ 50(storage)
Humidity range(%)	10 ~ 70(run) 5 ~ 75(storage)
use	Real-time imaging lithium PCB and SMT industries



## FNS 1515

### Purely Sharpper

- The FNS1515 series can be built with pixel sizes up to 75μm for extreme resolution, integrating pixel sizes previously seen in high-end detectors from imported brands. In digital imaging, the enlarged X-ray image, the drift of a few pixels, can affect the accuracy of the algorithm calculation, and further affect the yield of the product, small to the extreme pixel size, can physically reduce the error introduced by pixels to a minimum. The RNS1515 integrates ultra-small pixels, while also compatible with high-speed imaging performance, up to 22fps frame rate, allowing sharp images, no delay, no drag. Sharp, just one word.



## Technical Parameter

MODEL	FNS 1515
pixel matrix	2000x2000
Detector Technology	a-Si
Scintillator	GOS/CsI
Image Size (mm×mm)	150x150
Pixel Pitch (μm)	75
A/D Conversion (bit)	16
Spatial Resolution (lp/mm)	6.7
FPS	22 (1x1) 60 (2x2)
Maximum exposure time (s)	-
Data interface	-
X-ray Voltage Range	20kV~350kV
Protection Grade	IP20
Dimensions (mm×mm×mm)	180x180x35
Weight (kg)	4
Power consumption (W)	18
Temperature range (°C)	5 ~ 40(run) -10 ~ 50(storage)
Humidity range(%)	10 ~ 90(run) 5 ~ 95(storage)
use	Real-time imaging lithium PCB and SMT industries



## FNP 4343 Series

### Multipurpose large size portable X-ray digital flat panel detector - universal and outstanding

- The FNP 4343 series is the most common and stable detector product, designed for mobile applications in a variety of radiological digital imaging inspection, battery powered system designed for outdoor operation without power access. According to the operator's feeling, the redesigned grip makes the use experience more comfortable and complete. The pixel size of 139μm and the resolution power of 139μm meet the detection needs of most industrial sectors. With a pixel size of 100μm and a high resolution 43cm×43cm portable detector, it can not only be competent for outdoor mobile DR Detection tasks, but also meet the mobile operations of indoor university laboratories and detection service providers in fixed places. 100μm, combined with a specific selection of scintillator, can maximize the resolution to maintain the highest level, in aerospace, national defense and other fields, to meet the quality inspection and control of key components.

### MODEL

	FNS 4343	FNS 4343R
pixel matrix	3072×3072	3072×3072
Detector Technology	a-Si	a-Si
Scintillator	GOS/CsI	GOS/CsI
Image Size (mm×mm)	430×430	430×430
Pixel Pitch (μm)	139	99
A/D Conversion (bit)	16	16
Spatial Resolution (lp/mm)	3.6	5
Data interface	Gigabit & WiFi	Gigabit & WiFi
X-ray Voltage Range	40kV~150kV	40kV~150kV
Protection Grade	IP65	IP65
Dimensions (mm×mm×mm)	460×460×15	460×460×15
Weight (kg)	4.0	4.0
Power consumption (W)	15	25
Temperature range (°C)	5 ~ 40(run) -10 ~ 50(storage)	5 ~ 40(run) -10 ~ 50(storage)
Humidity range(%)	10 ~ 70(run) 5 ~ 75(storage)	10 ~ 70(run) 5 ~ 75(storage)
use	Portable DR	High resolution, portable DR

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## FNP 3025 Series

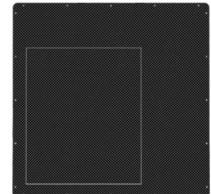
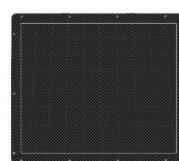
### Multipurpose Medium Format FPD for Portable Digital Radiography— Multipurpose and Phenomenal

- The RNP3025 series is available in a variety of configurations for a wide range of test environments and inspection tasks with different operational properties. The imaging field of view of the RNP3025 is more portable, and a large backpack can be included in an ordinary version of the RNP3025. Easy to carry over long distances. The 139 $\mu$ m provides the same excellent image quality as the RNP3543, high-contrast images that don't miss suspicious images due to oversized pixels. In the field of public safety, 100  $\mu$ m allows more details to be presented to the observer, and more image details represent more security. Industrial isotope radioactive sources, now there are also digital imaging devices, RNP3025HE, 3025HER provide different isotope digital imaging image performance. The imaging effect can meet the image index required by the standard under different Multipurpose Medium Format FPD for Portable Digital Radiography— Multipurpose and Phenomenal transmittance thickness.



## Technical Parameter

MODEL	FNS 3025	FNS 3025S	FNS 3025PR
pixel matrix	3072×2432	3072×2432	3072×2432
Detector Technology	a-Si	a-Si	a-Si
Scintillator	GOS/CsI	GOS/CsI	GOS/CsI
Image Size (mm×mm)	310×245	310×245	310×245
Pixel Pitch ( $\mu$ m)	139	139	99
A/D Conversion (bit)	16	16	16
Spatial Resolution (lp/mm)	3.6	3.6	5
FPS	6 (1×1) 11 (2×2)	20 (1×1) 40 (2×2)	6 (1×1) 11 (2×2)
Maximum exposure time (s)	---	---	---
Data interface	Gigabit network	Gigabit network	Gigabit network
X-ray Voltage Range	20kV~370kV	20kV~370kV	20kV~16MeV
Protection Grade	IP65	IP65	IP65
Dimensions (mm×mm×mm)	345×320×15	345×320×15	345×320×25
Weight (kg)	4.0	4.0	8.5
Power consumption (W)	15	25	25
Temperature range (°C)	5 ~ 40(run) -10 ~ 50(storage)	5 ~ 40(run) -10 ~ 50(storage)	5 ~ 40(run) -10 ~ 50(storage)
Humidity range(%)	10 ~ 70(run) 5 ~ 75(storage)	10 ~ 70(run) 5 ~ 75(storage)	10 ~ 70(run) 5 ~ 75(storage)
use	Small portable DR High resolution	Small portable DR High resolution	High resolution portable DR For radioactive source



## FNP 1515

### High Precision Small Format with FPD for Portable Digital Radiography— Delicate and Marvelous

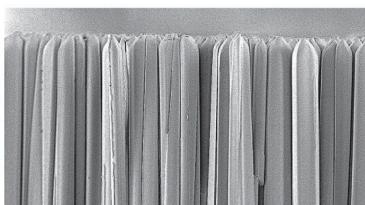
- The FNP1515 is one of the few flat-panel detectors that combines portability, high accuracy and small size.

#### MODEL

#### FNS 1515

pixel matrix	2000x2000
Detector Technology	a-Si
Scintillator	GOS/CsI
Image Size (mm×mm)	150x150
Pixel Pitch ( $\mu$ m)	75
A/D Conversion (bit)	16
Spatial Resolution (lp/mm)	6.7
FPS	12 (1x1)
Maximum exposure time (s)	180
Data interface	---
X-ray Voltage Range	20kV~370kV
Protection Grade	IP54
Dimensions (mm×mm×mm)	180x180x40
Weight (kg)	4
Power consumption (W)	18
Temperature range (°C)	5 ~ 40(run) -10 ~ 50(storage)
Humidity range(%)	10 ~ 90(run) 5 ~ 95(storage)
use	High resolution small size portable DR

### Comparison of scintillator performance of flat panel detector



- Advantages: High DQE, high MTF
- Disadvantages: Residual shadow at high doses Suitable for: medical single exposure imaging, such as: medical DR

Industrial low dose exposure imaging, such as: lithium, PCB and SMT electronics industry, point machine

- Good points: no residual image remains at high dose, does not affect continuous observation and multi-frame noise reduction processing.
- Missing points: compared with CsI, low DQE, low MTF
- Suitable for: medical continuous exposure imaging, such as: medical dynamic DR, gastrointestinal machine Industrial high dose continuous exposure imaging, such as Comparison of scintillator performance of flat panel detector : high-density castings, pipeline welds

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