MEDLINK VIVIX

VIVIX-S F-Series DR Panels

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VIVIX–S F Series

Simple, but robust.

The VIVIX–S F–Series are the finest DR detectors with best–in–class features never experienced before. Cutting–edge imaging technology and sophisticated design offer superior diagnostic images to streamline daily workflow. Cassette–sized DR detectors are presented in 3 sizes – 25x30cm (10"x12"); 36"x43"cm (14x17) and 43x43cm (17"x17").

Competition in the DR market has the market overflowing with similar detectors in terms of specifications and pricing. In order to meet high expectations, Vieworks has again refreshed their DR detector lineup to provide the finest solutions.

The VIVIX–S F–Series is the new premium line for Vieworks' VIVIX–S Series, which has already gained a renowned reputation in the general radiology industry. These newly launched VIVIX–S F–Series panels offer an industry–leading solution to those seeking high quality patient care in the rapidly changing medical environment.
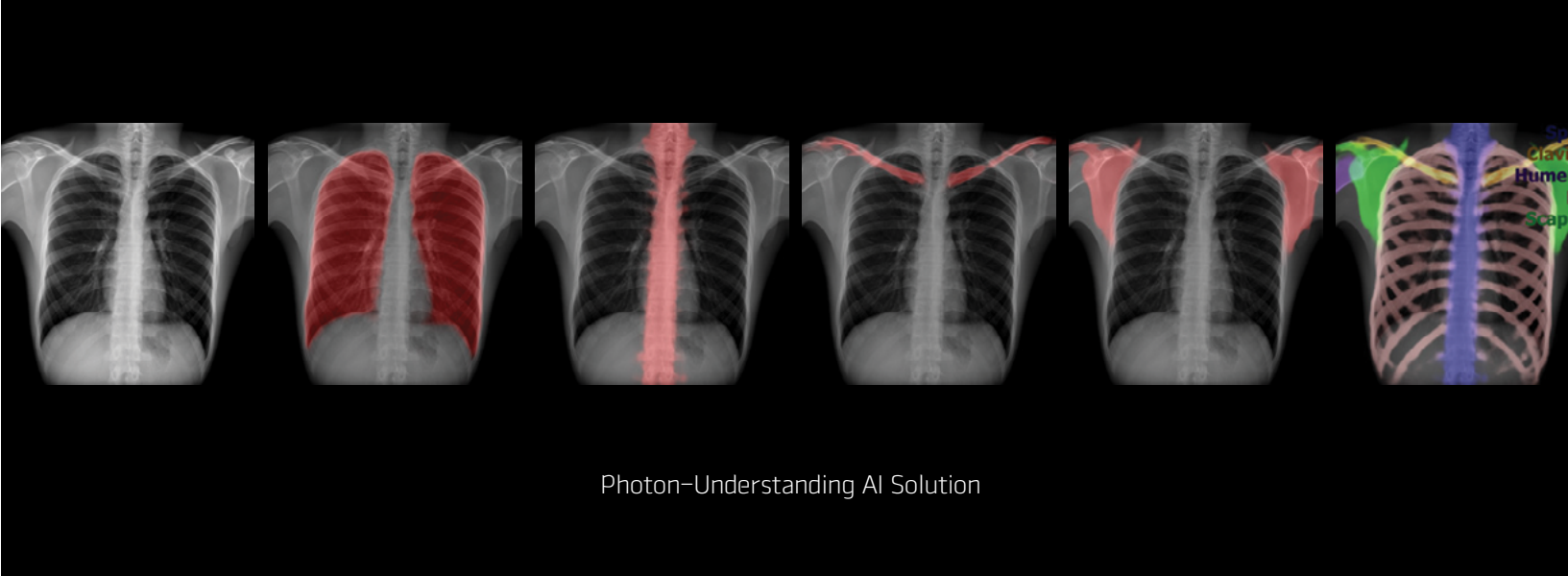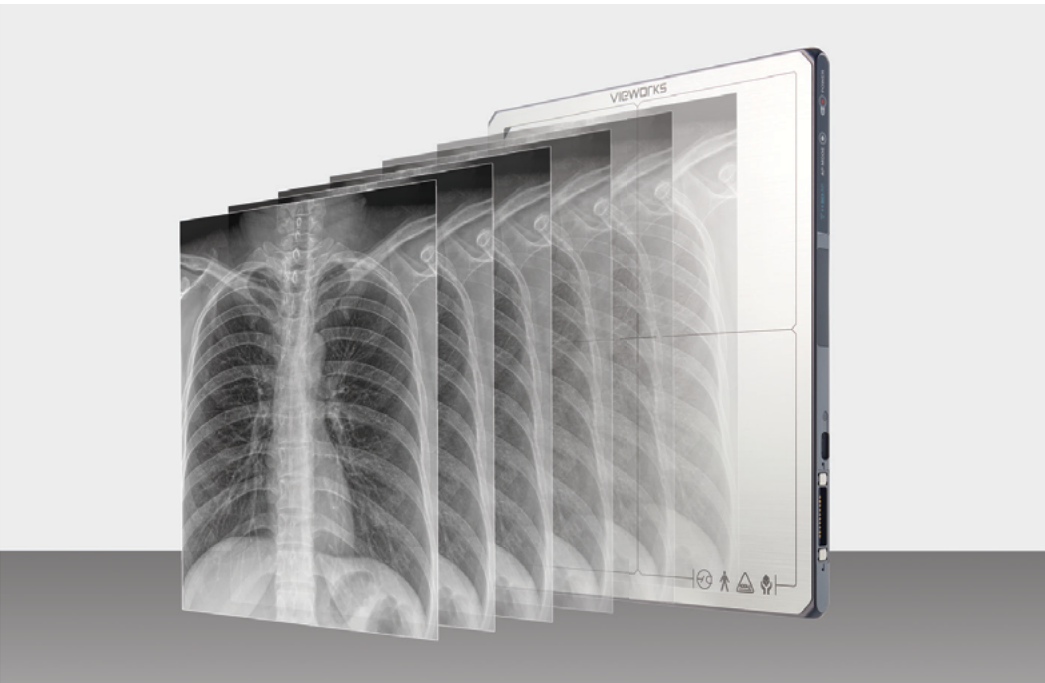
Exceptional Image Quality

Experience the finest image quality with the VIVIX–S F series to ensure confident diagnostic decisions. The series displays a smaller pixel pitch at 99μm, offers semi–dynamic function, and provides the most advanced in–class software solution for imaging processing technology.

High–Resolution Images with 99μm Pixel Pitch

Detect even the most minor bone structures using Vieworks' VIVIX–S F series, which features the smallest pixel pitch in the market at 99μm. The spatial resolution also guarantees a minimum of 5 lp/mm, which enables users to see the most detailed clinical images. The series also provides the highest DQE for high–quality diagnostic images; VIVIX–S 3643FW supports DQE at 0 lp/mm.

Semi–dynamic Feature (multi–frame mode)

VIVIX–S F series' semi–dynamic feature is a powerful solution for situations where capturing multiple images simultaneously is needed, such as for tomosynthesis. In multi–frame mode, users can look into multiple layers of a body part and create 3D images by combining numerous shots into one picture. This feature can be used for any situation that requires continuous shooting of X–ray clinical photos. With the VIVIX–S 3643FW model, users can take 6fps at 10 seconds in full image. VIVIX–S 4343FW model supports 6fps at 8 seconds in full image.
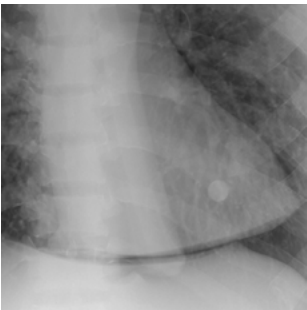

Photon–Understanding AI Solution

Anatomy–Based Age Enhancement With Photon–Understanding AI Solution

Vieworks' newly adopted AI solution, known as semantic segmentation, classifies photons on each pixel from a clinical image into a certain label or class. This can be a useful tool for tone mapping, an image enhancement technique. The performance of the tone mapping algorithm depends on the software's ability to classify the labelling of your interest. As this AI solution classifies the body part of interest, this information can be used to improve the visibility of the x–ray image.
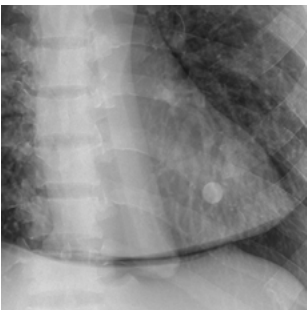
Advanced Image Processing Technology

Vieworks' post–image processing algorithm provides advanced image quality (PureImpact). This image processing technology is specialized for VIVIX detectors and is applied to the VXvue software. Various preset parameters are optimized for each target examination to show fine details according to each examination.

Vieworks' SBSC (Software–Based Scatter Correction) called PureGrid (available as an option). This innovative feature is optimized for environments where hardware grids are difficult to use. SBSC can also provide high–contrast images at low–dose conditions.
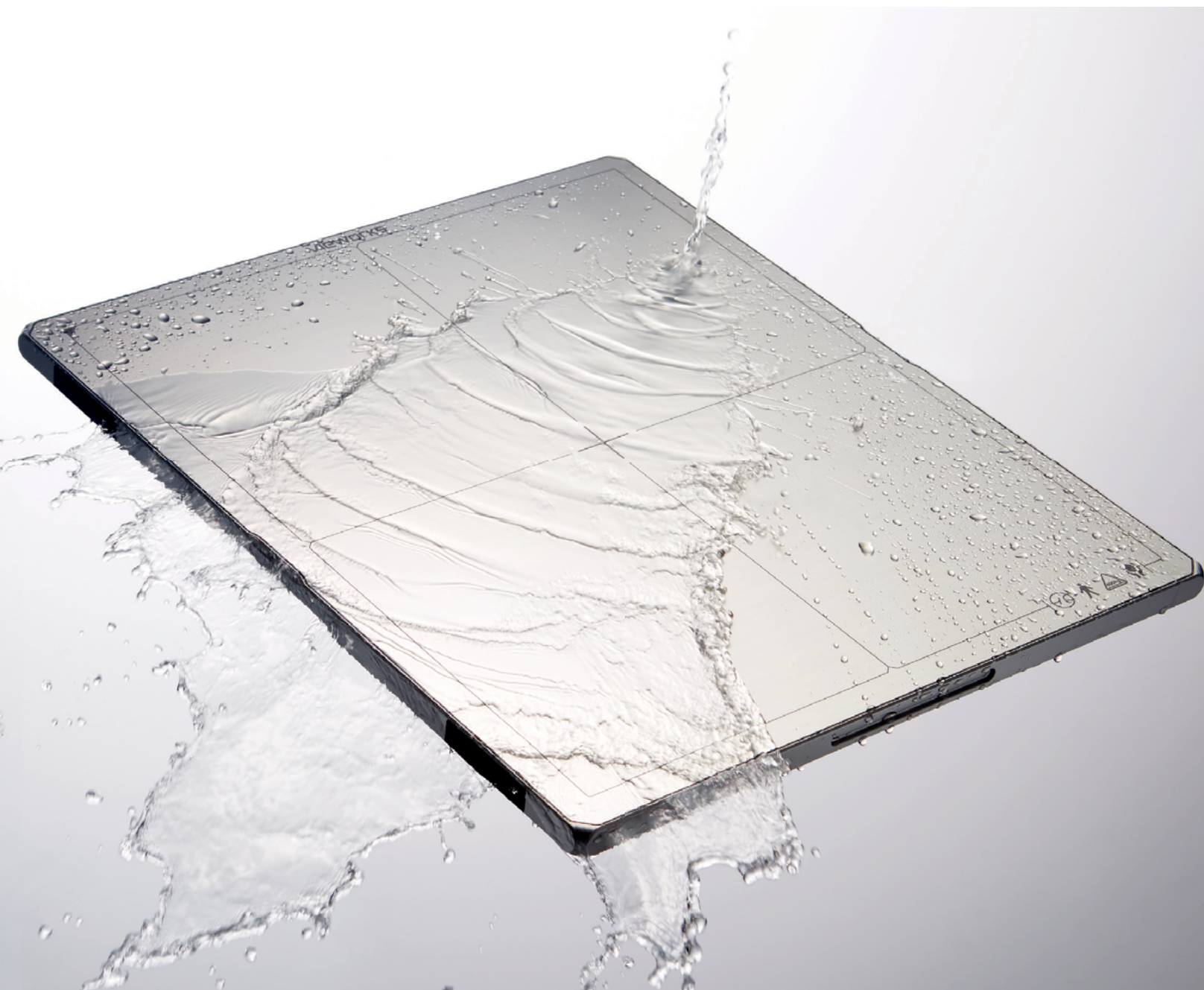

Non–Grid

SBSC

Finest Durability

Feel confident with the finest durability with the VIVIX–S F–Series, which helps secure a longer product lifetime. The new elegant design, combined with its robustness, creates a sophisticated, powerful and practical detector for even the harshest hospital environment.

Unbreakable Glass–free TFT

VIVIX–S F series has significantly increased the durability of a detector with glass–free TFT. Removing the most fragile layer inside gives the series more flexibility on the physical panel. This makes the detector less likely to break under unexpected conditions such as accidental drops, heavy loads or pressure.

Enhanced Robustness

VIVIX–S F series passed the 150cm drop test, the highest drop height among all available detectors in the market.

This series also endures up to 400kg (881lbs.) under uniform load.

IP67 — Water and Dust Resistance

Achieving IP67 in water and dust resistance tests has freed users from having to worry about poor operation caused by water or dust. IP67 indicates that the series can continue stable operation in water up to 30 minutes at depths of less than one meter

Wider Operating Temperature

VIVIX–S F series is reliable even when taking images outside typical room temperature. The series can maintain the same image quality in hot and cold environments. VIVIX–S F series operates from 0°C to 40°C, making it suitable for outdoor and emergency usage.

Maximum Usability

Experience the finest usability of the VIVIX-S F series that streamlines your workflow even in the busiest hospital environment. Greater portability is achieved with a much lighter weight than previous detector models. Batteries run for a longer time and are easily exchangeable. A variety of intuitive and user-friendly functions offer a premium user experience.

Lighter Weight for Greater Portability

VIVIX-S F series is a perfect solution for users who believe a detector is too heavy to hold with one hand. Our glass-free TFT maximizes portability by significantly reducing the weight and achieving the lightest weight among VIVIX series detectors. The ergonomic design improves grips, making it easier to pick up and prevent accidental drops.

Convenient Charging: Variety of Charging Methods

VIVIX-S F series adds a new wireless charging method to improve convenience. A cradle is also offered for safe storage and easy charging of detectors. Standard charging methods are still provided with USB-C interfaces and magnetic tether connectors.

Improved Battery Usage

With the fast-paced environment medical professionals endure,
a detector that can cover long working hours is necessary. VIVIX-S
F-Series comes with two batteries, increasing the operating hours to 16.

Easy to Use With User-Friendly Functions

OLED Status Screen

The exterior OLED display provides information about battery charge
level, wired/wireless connection mode, and direction of the image. Users can
view the detector status quickly and prepare for the diagnostic procedure
accordingly.

AP Button

The AP (Access Point) Button controls the wireless mode that the panel is
using. AP mode is used for laptops & tablets. Whereas, Station mode is used
for workstations that come with an AP included.

Detector Sharing

Detector sharing is a preset switching function which is controlled
with the NFC or AP button. With a simple scan of an NFC Card,
your detectors turn into shareable detectors that can be used from
a number of imaging systems.

	VIVIX–S 2530FW	VIVIX–S 3643FW	VIVIX–S 4343FW
Model Name	FXRD-2530FAW	FXRD-3643FAW	FXRD-4343FAW
Technology	a–Si Flexible TFT	a–Si Flexible TFT	a–Si Flexible TFT
Scintillator	Flexible CsI	Flexible CsI	Flexible CsI
Pixel Pitch	99um	99um	99um
Spatial Resolution	5.0 lp/mm	5.0 lp/mm	5.0 lp/mm
Pixel Matrix	2524 x 3036 pixels	3548 x 4316 pixels	4316 x 4316 pixels
Image Size	25 cm x 30 cm	36 cm x 43 cm	43 cm x 43 cm
Grayscale	16 bit	16 bit	16 bit
Image Acquisition Time	3 s	4 s	4 s
Recommended Cycle Time	4 s	5 s	5 s
Multi-frame Mode	–	6 fps (full image, 10 s)	6 fps (full image, 8 s)
Data Interface	Gigabit Ethernet (wired) • IEEE802.11n/ac (wireless)	Gigabit Ethernet (wired) • IEEE802.11n/ac (wireless)	Gigabit Ethernet (wired) • IEEE802.11n/ac (wireless)
X–ray Generator Interface	DR Trigger Mode • AED Mode • Software Trigger	DR Trigger Mode • AED Mode • Software Trigger	DR Trigger Mode • AED Mode • Software Trigger
Dimensions	28.3 cm x 33.3 cm x 1.5 cm	38.4 cm x 46.0 cm x 1.5 cm	46.0 cm x 46.0 cm x 1.5 cm
Weight	1.7 kg (1 battery)	2.4 kg (1 battery) • 2.6 kg (2 batteries)	2.95 kg (1 battery) • 3.15 kg (2 batteries)
Battery	Lithium Ion 3,400mAh x 1 • 8 h (standby) *1,500 images at a 15–second cycle	Lithium Ion 3,400mAh x 2 • 16 h (standby) *3,000 images at a 15–second cycle	Lithium Ion 3,400mAh x 2 • 16 h (standby) *3,000 images at a 15–second cycle
Dust and Water Resistant	IP67	IP67	IP67
X–ray Voltage Range	40 – 150kVp	40 – 150kVp	40 – 150kVp
Operating Environment	0 ˚ C to 40 ˚ C 5% to 90% RH (Non-condensing)	0 ˚ C to 40 ˚ C 5% to 90% RH (Non-condensing)	0 ˚ C to 40 ˚ C 5% to 90% RH (Non-condensing)
Power Consumption	Normal: Max. 24W Charging: Max. 50W	Normal: Max. 24W Charging: Max. 80W	Normal: Max. 24W Charging: Max. 80W

* Specifications are subject to change without prior notice.

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