VIVIX-S 1012N

Versatile Portable Flat Panel Detector for Digital Radiography

VIVIX-S 1012N is Vieworks' new portable flat panel detector for digital radiography in various applications such as ENT, equine, and cephalometry, etc. with active area of 10" x 12". Its 124um pixel TFT sensor gives high resolution image and its Wi-Fi communication system provides fast wireless transfer speed. It is a perfect blending of state-of-the-art technologies in medical engineering, optics, electronics and information technologies with brilliant hardware and software design. The product is available in both CsI(1012NAW) and GADOX(1012NBW) scintillator types.

www.medlinkimaging.com

VIVIX-S 1012N

Versatile Portable Flat Panel Detector for Digital Radiography

Features

* Active area of 10" x 12"
* Various applications such as ENT, equine and cephalo
* High spatial resolution with 124um pixel array
* Wi-Fi data transfer with dual band (2.4GHz and 5GHz)
* Viewer software running on Windows™ OS (VXvue™)

Drawing

Configuration

Detector	FXRD-1012NAW/NBW
System Control Unit	FXRS-04A/B
Charger	FXRC-02A

Designed and manufactured by Vieworks in Korea

Technical Specification

Application	General radiography, ENT, equine and cephalometry
Technology	Flat panel detector : a-Si TFT with PIN diode
Scintillator	CsI:Tl / Gd_2O_2S:Tb
Pixel Pitch	124um x 124um
Spatial Resolution	4lp/mm
Pixels	2,048 x 2,560 pixels
Image Size	10 x 12 inches (25 x 32cm)
A/D Conversion	16 bit
Grayscale	65,536 steps
X-ray Voltage Range	40 ~ 150kVp
X-ray Generator Interface	Line trigger : DR Trigger Mode Auto trigger : AED (Automatic Exposure Detection) Mode
Wireless Interface	IEEE 802.11n (2.4GHz/5GHz dual band)
Image Acquisition	1 sec (Wired), 3 sec (Wireless)
Dimensions	350 (W) x 287 (L) x 15 (T) mm
Weight	Approx. 2.1kg (GADOX) / 2.2kg (CsI)
Operating Environment	15 ~ 35℃, 30 ~ 85% RH (non-condensing)
Power	DC24V, 0.7A, Max. 17W
Battery	Lithium Ion / 3,100mAh

* Specifications are subject to change without prior notification.

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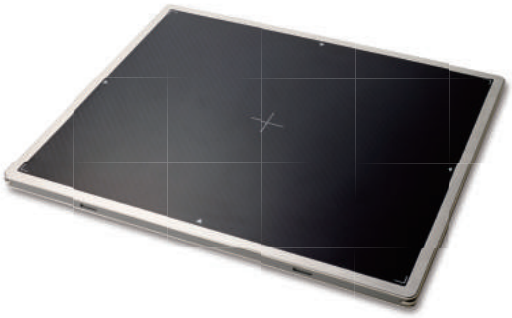
VIVIX-S 1417W

Wireless Portable Flat Panel Detector for Digital Radiography

Features

* Wide active area of 14" x 17"
* High spatial resolution with 140um pixel array
* Wi-Fi data transfer with dual band (2.4GHz and 5GHz)
* Stable and reliable automatic exposure detection (Anytime™)
* Direct communication with smart devices (Inside AP™)
* Viewer software running on Windows™ OS (VXvue™)

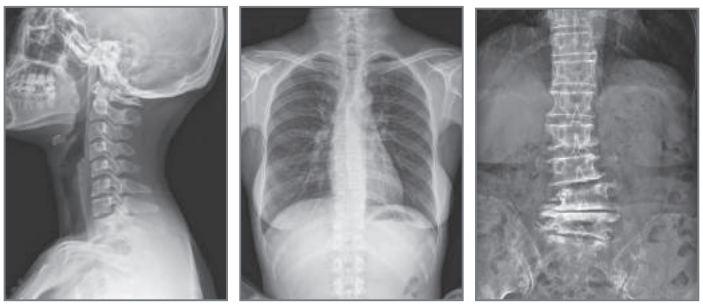


Configuration

Detector	FXRD-1417WA/B
System Control Unit	FXRS-03A
Charger	FXRC-01A

Designed and manufactured by Vieworks in Korea

Acquired Images



Drawing

Technical Specification

Application	General radiography
Technology	Flat panel detector : a-Si TFT with PIN diode
Scintillator	CsI:Tl / Gd_2O_2S:Tb
Pixel Pitch	140um x 140um
Pixels	2,560 x 3,072 pixels
Image Size	14 x 17 inches (35 x 43cm)
A/D Conversion	14 bit
Grayscale	16,384 steps
X-ray voltage range	40 ~ 150kVp
X-ray generator Interface	Line trigger : DR Trigger Mode Auto trigger : AED (Automatic Exposure Detection) Mode
Wireless Interface	IEEE 802.11a/b/g/n (2.4GHz/5GHz dual band)
Dimensions	460 (W) x 384 (L) x 15 (T) mm
Weight	Approx. 3.3kg (GADOX) / 3.4kg (CsI)
Operating Environment	15 ~ 35℃, 30 ~ 85% RH (non-condensing)
Power	DC24V, 0.5A (Wired Mode) / 7.4V 4,000mAh Lithium Ion Polymer Battery

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FDA Approved

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VIVIX-S 1417W

Wireless Portable Flat Panel Detector for Digital Radiography

VIVIX-S Portable, Wireless is a Vieworks' 14" x 17" flat panel detector for general radiographic applications using its unique image processing system. With the size the same as that of CR cassette or films, it fits into almost all existing bucky trays. It is easy to acquire and instantly transmit images to the DICOM server through Wi-Fi network. The battery charger can recharge up to 3 batteries at the same time within 2 hours. An additional tether cable connection to the detector can also recharge the battery without removing it from the detector. Inside AP™ enables customers to take X-ray examinations directly to a computer or a laptop with Wi-Fi connection. In case of disconnection of Wi-Fi network between the detector and the image acquisition software, the detector can save up to 100 images at its on-board memory. After resuming communication with the detector, all saved images can be transmitted to the software.

VIVIX-S 1717V

Wide and Slim Flat Panel Detector for Digital Radiography

Stable and Reliable AED

Easy Installation (cassette tray)

High Image Quality

Fast Booting Time

Efficient Workflow

VIVIX-S 1717V

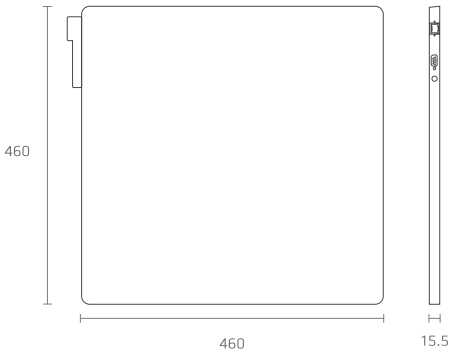
Wide and Slim Flat Panel Detector for Digital Radiography

Product

Features

* 17"X17" fixed cassette size tethered panel
* Stable and reliable AED (Automatic Exposure Detection)
* Fast booting time: 15 seconds
* 16 bit analog-to-digital conversion
* Easy Installation with Plug and Play Technology

Drawing



Technical Specifications

Model Name	FXRD-1717VA	FXRD-1717VB
Technology	a-Si TFT with PIN diode	
Scintillator	CsI:Tl	Gd_2O_2S:Tb
Pixel Pitch	140㎛	
Spatial Resolution	3.5lp/㎜	
Pixels	3,072 x 3,072 pixels	
Image Size	430.08㎜ x 430.08㎜	
Grayscale	16 bit	
Energy Range	40 ~ 150kV	
X-ray Generator Interface	Automatic Exposure Detection, External Line Trigger	
Data Interface	Gigabit Ethernet (1000BASE-T)	
Image Acquisition Time	2 sec	
Dimensions	460㎜ x 460㎜ x 15.5㎜	
Weight	4.5kg	
Operating Environment	10℃ ~ 35℃, 30 ~ 85% RH (non-condensing)	

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VIVIX Software

VX VUE PureImpact™ QXLink 3 DICOMesh

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SOFTWARE

Vieworks pursues an “all-in-house design” that offers both hardware and software solutions.

VXvue

Digital Radiography Acquisition viewer for VIVIX-S Series

- Easy Workflow
- User Friendly
- Various Apps

PureImpact™

Advanced X-ray image processing algorithm

- Excellent Image Quality
- Simple Management
- Separated SDK

QXLink 3

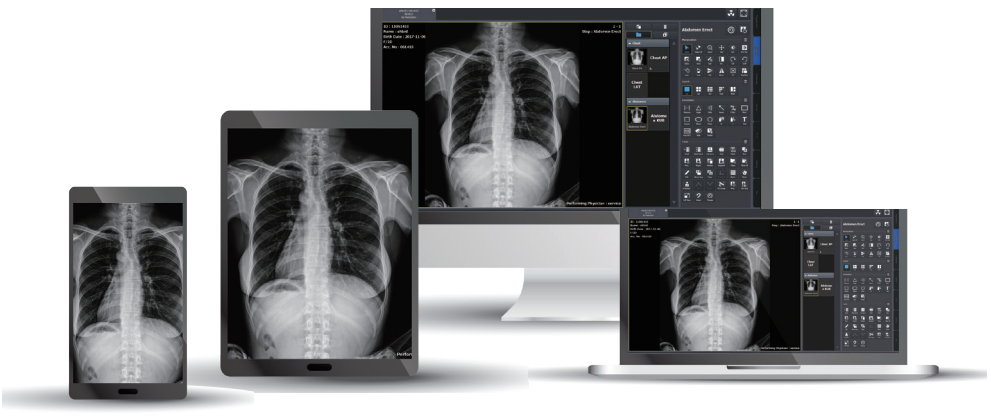
Streamlined PACS

- Optimized PACS
- 4 Different Apps (Human, Vet, Chiro, Orthopedic)
- Std. DICOM Print/Storage

DICOMesh

Cloud based Dicom-centric archiving and recovery platform

- Easy-To-Use
- Encrypted Transfer
- Automated Backup



VXvue

VXvue with PureImpact™

Digital Radiography Acquisition Viewer for VIVIX-S Series

VXvue is an image acquisition program cooperating with VIVIX-S series. New post-processing algorithm, PureImpact™, provides clear images for efficient diagnosis. With various functions and tools, VXvue maximizes work efficiency in different medical environments.

Main Features

Easy Management

- Main integration systems: Generator, U-arm, collimator, DAP, etc.
- DICOM 3.0 : MWL, Send, Print, MPPS, etc.
- Simple registration with preset auto retrieve
- Exporting the images to external USB/Hard disc

Advanced Image Processing – PureImpact™

- New post-processing algorithm for an efficient diagnosis
- Fine details without visual artifact, soft tissue delineation, non-grid chest processing, stable imaging processing within standard radiation dose variation, grid line removal with clear resolution, fine tuning(bright region suppression), wide latitude
- Providing 3 different mode(Soft, Normal, Hard) for individual preference
- Optimized pre-set parameters for each target examination (human, vet, and equine)

Convenient Usability

- Automated functions including auto-cropping, auto-labeling, and auto-sending
- Touch screen interface
- Customizable UI(font, color, style)
- Statistic function with dose and exam management

Exposure Mode (Human)

Exposure Mode (Veterinary)

Measurement (Free rotation)

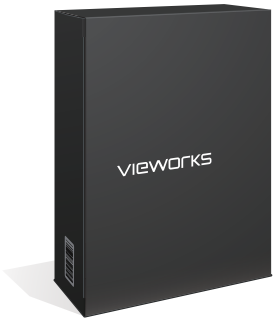
Installation System Requirements

Monitor Resolution (w x h)	1280 X 768
CPU	Intel Core i5 2600
Memory	4GB
Operating System	Microsoft Windows 7 Pro (64 bit) Microsoft Windows 8 / 8.1 Pro (64 bit) Microsoft Windows 10 Pro (64 bit)

QXLink 3.3

Streamlined PACS

QXLink 3.3 is a picture archiving system that stores all digital information from diagnostic imaging apparatus. Various measurement tools assist convenient diagnosis.
Web-based access gives full mobility so users can access the viewer anytime, anywhere.
Also, user can customize its layout easily with multi-monitor configuration.



Main Features

Web-based Access

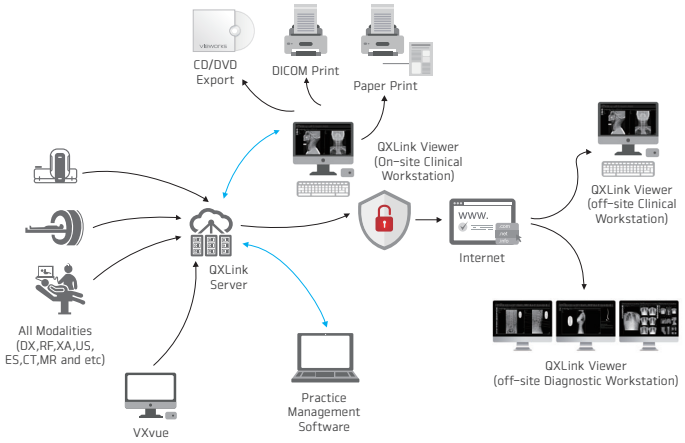
- High availability: multi-access from outside
- Easy management: convenient and unlimited viewer installation with concurrent license
- Easy configuration: convenient configuration with Built-in web server
- Fast delivery: Background and JIT(Just in Time) loading

Multi-monitor Configuration

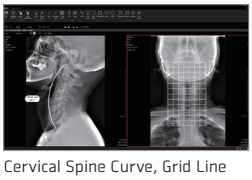
- Hanging protocol: View with protocol (1-1, 1-1-1, 2-1, etc.) up to 4 monitors and custom view is also available.
- Various screen resolution: VGA to UHD without custom scaling

Advanced Tools with Guide

- More than 60 measurements tools including Chiropractic, Orthopedic, Veterinary
- Useful guide for each tools make it easy to use, minimizing misdiagnosis
- Printing with drag & drop in custom layout is available.
- Full size page for stitched image is available.



Architecture of QXLink 3



Cervical Spine Curve, Grid Line

Pelvis Analysis with Guide

Installation System Requirements

Monitor Resolution (w x h)	640 x 480
CPU	Intel Core i5 2600
Memory	2GB
Operating System	Microsoft Windows 7 Pro (32 bit / 64 bit) Microsoft Windows 8 / 8.1 Pro (32 bit / 64 bit) Microsoft Windows 10 Pro (64 bit)

DICOMESH CLOUD BACK-UP SYSTEM

Synchronized Cloud based archiving and recovery system

Our cloud based Dicom-centric archiving platform provides the ideal solution for your HIPAA & HITECH compliant back-up and recovery needs.

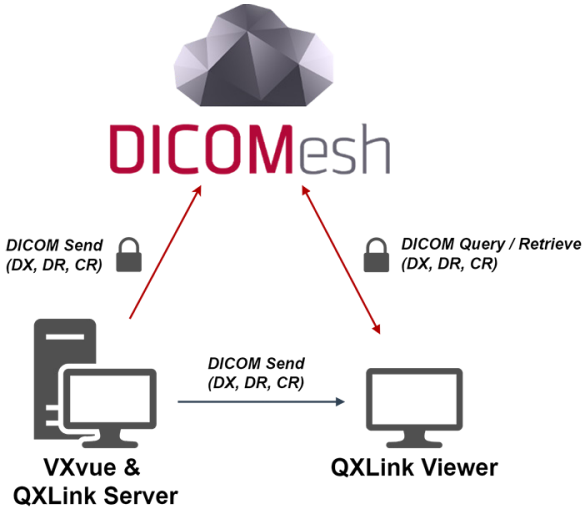
DICOMesh gives the user the freedom in knowing that their back-up system not only provides automated back-up functionality but that the their sensitive data is protected using the latest in HIPAA and HITECH compliant data encryption technology.

Main Features

- Syncronize your local backup to the cloud
- Able to Query/Retrieve any past uploaded study if local copy is lost
- HIPAA & HITECH compliant solution
- Scalable Storage through structured tiers: 250GB, 500GB, 1TB
- Perfect DICOM cloud archive
- Finished studies are saved locally to any provided HDD/NAS/Mapped Drive
- Local backups save DICOM & JPEG versions on study completion

Full Intergration with Vivix Workstations

- Able to Send X-rays (CR, DR, DX) to DICOMesh from VXvue Acquisition Software
- Query/Retrieve lost studies from DICOMesh using QXLink
- Studies are sent to DICOMesh automatically on study close
- Annotated and measured in QXLINK? Just send the updated study to DICOMesh



Installation System Requirements

CPU	1.3 GHz processor minimum
Memory	4GB of free RAM minimum
Storage	3GB free hard drive available space on OS drive
Browser	Internet Explorer 11 or higher
Internet Connection	TCP/IP Network

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