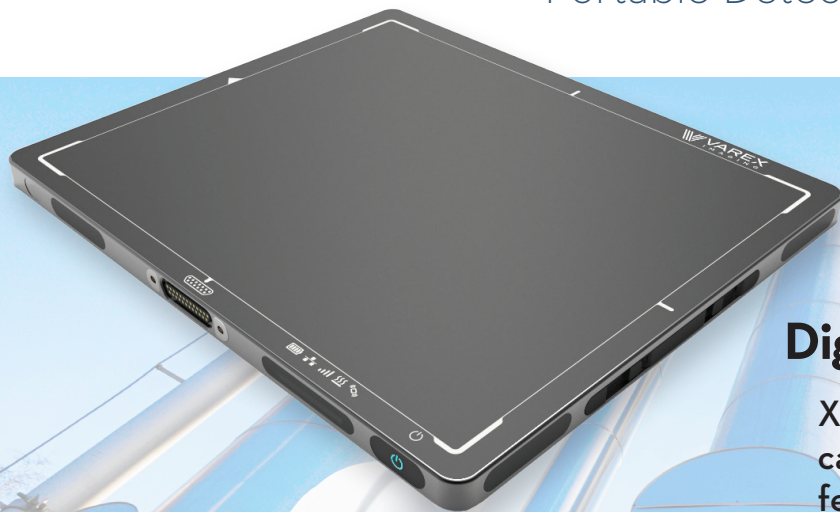# XRpad2 3025i

Portable Detector for Industrial Applications

Digital Radiography in the field

XRpad2 3025i is a lightweight wireless cassette detector with advanced features enabling digital radiography as never seen before.

OVERVIEW

Featuring 100 µm pixel size, direct deposition CsI or Gadox scintillator and excellent DQE, XRpad2 3025i enables high resolution imaging with reduced X-ray exposure time. Design of the industrial XRpad® is lightweight, robust and ergonomic, permitting easy lifting and mobility. Automatic Exposure Detection, on-board corrections, on-board averaging and wireless access point mode make system integration and field usage quick and simple.

New features of the XRpad2 3025i include fast preview, internal image storage, and magnetic connector for docking. Continuous imaging with up to 9 fps and on-board frame averaging facilitates advanced applications, such as pipe inspection for corrosion and deposites, Tomosynthesis, general weld inspection with mobile X-ray sources and Isotopes.

FEATURES AND BENEFITS

- 25 cm x 30 cm (10" x 12") image
- High resolution 100 µm pixel pitch (5.0 lp/mm)
- Direct deposition CsI or Gadox scintillator, for excellent image quality
- Up to 65,536 grey levels (16-bit ADC)
- Automatic Exposure Detection (AED)
- Wi-Fi interface (Station and Access Point modes)
- Docking connector for GigE, power and sync
- On-board pixel corrections and storage
- On-board Frame Averaging
- Dynamic mode with up to 9 fps at 200 µm resolution
- Fast preview image
- Robust and lightweight design

APPLICATIONS

- Digital Mobile Radiography
- Security Inspection

Technical Specifications

SENSOR

Panel . . . . Amorphous silicon active TFT-diode array
Scintillator . . . . Direct deposition CsI:Tl or Gadox
Pixel Matrix . . . . 3008 × 2512
Pixel Pitch . . . . 100 μm

ELECTRONICS

Amplifiers . . . . Low noise ASICs with user selectable gains
ADC 16-bit
Image Transfer Time . . . . Wired: 300 ms; Wireless: 2000 ms
On-board Memory . . . . 1 GB DDR3, 8 GB SDHC card

MECHANICAL

Active Area . . . . 298.4 mm × 248.8 mm
External Dimensions . . . . 282 mm (w) × 332 mm (l) × 15.5 mm (h)
Weight . . . . 2.5 kg (5.5 lbs)
Housing . . . . Aluminum frame with carbon-fiber entrance window

COMMUNICATIONS

Status Display . . . . OLED display with Wi-Fi, LAN, battery,
and sensor indicators
Wireless Data I/F . . . . 802.11n Wi-Fi standard at 5 GHz
Wired Data I/F . . . . GigE via an GigE docking cable or
GigE, Trigger and power via docking connector
X-ray I/F . . . . Integrated X-ray trigger control
Automatic Exposure Detection

ADVANCED FEATURES

Dynamic Mode . . . . 9 fps at 200 μm resolution
On-board Corrections . . . . Offset, gain and defective pixel
On-board Storage . . . . Image storage with tagging
On-board Frame Averaging. . . . . Up to 1024 frames
Fast Preview . . . . 4 × 4 binned quick preview image
Limiting Resolution . . . . 5 cy/mm

ENVIRONMENTAL

Temperature . . . . 10°C to 35°C operating
Humidity . . . . 20% to 80% operating
Ingress Protection . . . . IP54 rated (protection against dust
and splashing water)

ACCESSORIES

Battery . . . . Rechargeable battery, 11.1 V
Battery Charger . . . . . . External two bay charger 100 - 240 V AC, 50/60 Hz
Interface and Power Unit . . . . Optional IPU-2 external power supply
100 – 240 V AC, GigE and X-ray I/F

REGULATORY

Standards . . . . EN 61010-1, ,
FCC part 2 subpart J, FCC part 15 subpart B/C/E,
ETSI EN 301 893 V2.1.1, ETSI EN 301 489-1 V2.2.0,
ETSI EN 301 489-17 V3.2.0, EN ISO 10993-5, EN ISO 10993-10

MECHANICAL CHARACTERISTICS

(Dimensions in mm)

15.5

282

332
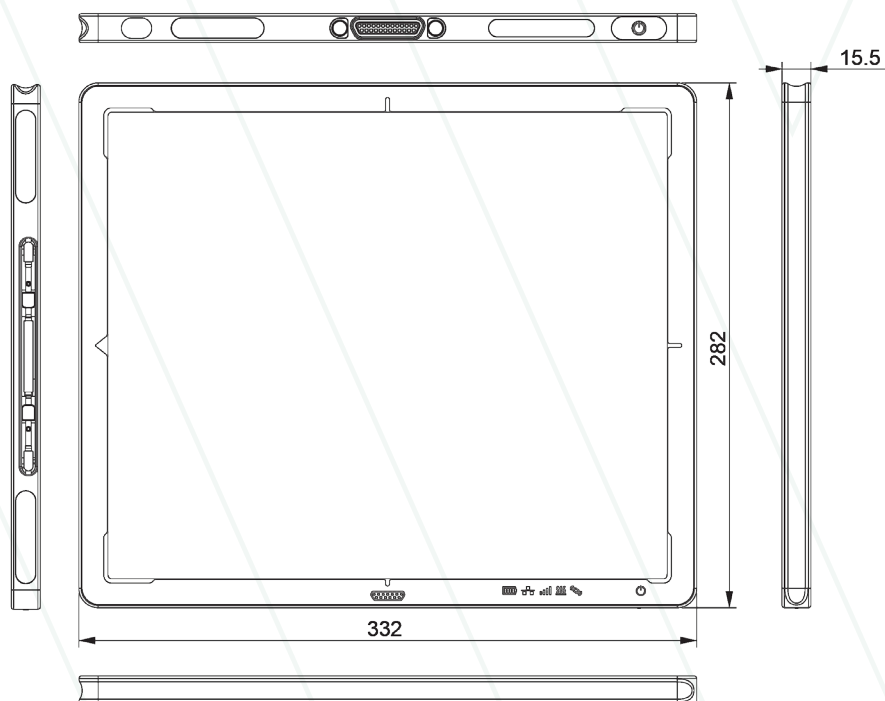
[1] Unless otherwise specified, Varex Imaging Flat Panel X-ray Detectors are components intended to be integrated into products by X-ray system manufacturers. System manufacturers are responsible for qualifying and validating their products for their intended uses and meeting all applicable regulatory requirements.

Contents in this document are subject to change without notice.

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