

Xpress Flex[®] DR Panels

The World's First Flexible Digital X-Ray Detectors!



WRAP IT, DON'T STRAP IT!

Xpress Flex DR Panel is changing the NDT market by offering the first flexible DR panel that can be wrapped around an object for optimal contact across the area of interest. The Xpress Flex will change your Digital Imaging experience by improving workflow and image quality, reducing your exclusion zone, and simplifying the process with less consumables than other methods.



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The World's First Flexible Digital X-Ray Detectors

Xpress Flex is the World's first flexible digital X-ray detector that can be contoured around an object for direct contact of the imaging area. Its hinged design allows the TFT detector to move freely while not impacting image quality or product durability. This flexibility means the detector can be shaped around more complex objects eliminating distortion that can come from using a flat DR panel.



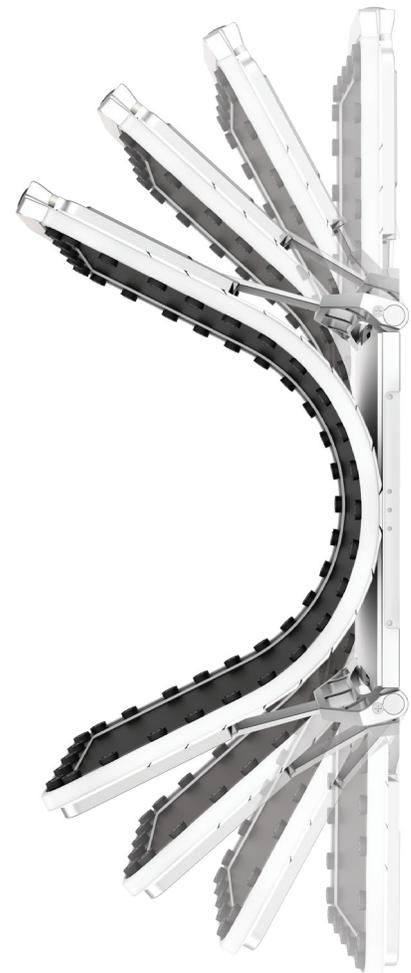
The Xpress Flex is lightweight which makes working with it in the field easy. The TFT detectors are rugged and sensitive enough to capture images using even low exposures. Isotopes with low curies (less than 30) still produce weld quality images on the Xpress Flex, allowing you to keep your sources longer and reduce the exclusion zones dramatically.

"Amazing, we were able to do the required 7 shots of a 5 mile long 16" pipe in only 3 minutes!"

- Current Customer

BENEFITS

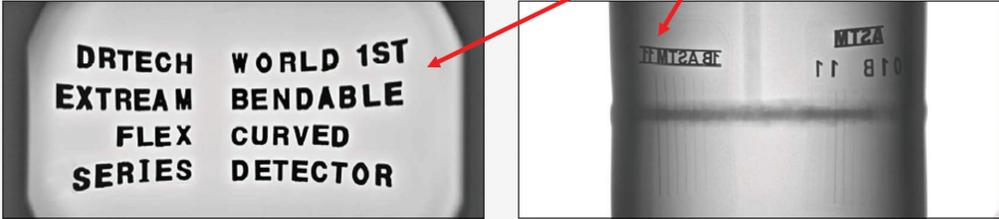
- Flexible detector that can be used on complex shaped objects
- Full contact on larger circumferences
- High sensitivity = lower exposure dose
- Smaller Radiation Exclusion Zones due to lower dose exposures
- Allows for extended use of low curie gamma sources
- Wireless communication (with optional tether included)
- Battery powered (batteries and charger included)
- Light weight compact design
- Easy to use XVu[®] software platform
- Sleep Mode for Low Power Consumption
- Ultra tough shock-proof composite material
- Pixel Pitch: 140 μm or 100 μm based on model
- No Film or Chemicals



DISTORTION OF FLAT DDA @ PIPE INSPECTION

Distortion Area

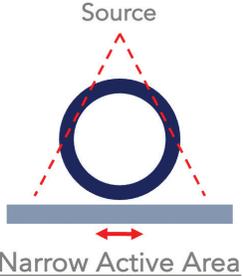
Flat panel detector



FleX Series

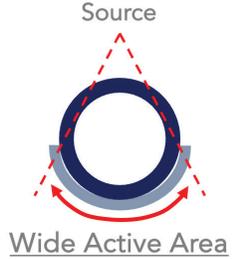


Source



Narrow Active Area

Source

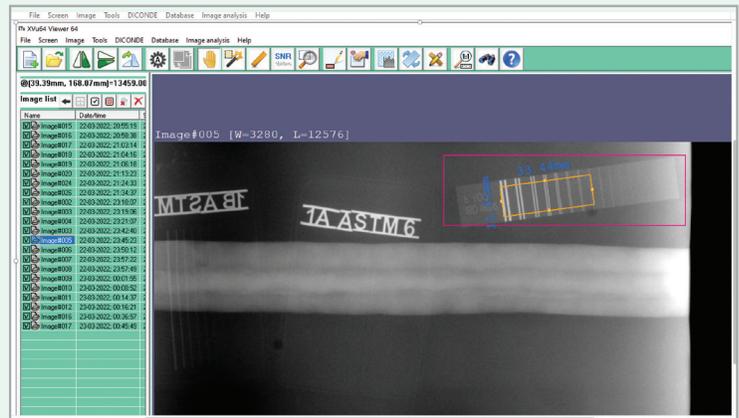


Wide Active Area

XVu SOFTWARE

XVu Software is used in conjunction with the Xpress Flex system. XVu allows for exposure control, image processing and archiving. X-Ray images are stored in DICOMDE tamper-proof data format that meets or exceeds requirements of ISO, ASTM, API and ASME.

The software provides stitching of images, compatibility with conventional image formats such as .jpg and .tiff, with image enhancement, as well as image specific information such as inspection date and time all stored in the datafile. All of this provides the perfect conditions for image examination and inspection protocol preparation.



Sample Screen



GENERAL SPECIFICATIONS

	1043	1036	1024
Size (in)	4" x 17"	4" x 14"	4" x 10"
Imaging Area (mm2)	100 x 430	107 x 358	100 x 240
Bending Range	8 inch to Flat	8 inch to Flat	4 inch to Flat
Housing Material	Aluminum & Silicon/Rubber	Aluminum & Silicon/Rubber	Aluminum & Silicon/Rubber
Sensor Protective Material	Carbon Fiber	Carbon Fiber	Carbon Fiber
Technology	a-Si TFT with photodiode	a-Si TFT with photodiode	a-Si TFT with photodiode
Scintillator	Gd2O2S:Tb (Gadox)	Gd2O2S:Tb (Gadox)	Gd2O2S:Tb (Gadox)
Pixel Matrix Resolution	1024 x 4300	768 x 2560	1024 x 2406
Pixel Pitch (µm)	100 µm	140 µm	100 µm
Spatial Resolution (lp/mm)	5	5	5
AD Conversion (bit)	16 Bit	16 bit	16 Bit
Wireless Protocol	1GigE 802.11 n/ac	1GigE 802.11 n/ac	1GigE 802.11 n/ac
Operating Temp (oC)	-20 to + 50	-20 to + 50	-20 to + 50
Storage & Transport Temp (oC)	-20 to +55	-20 to +55	-20 to +55
Relative Humidity	10 - 90%	10 - 90%	10 - 90%
Operating/Storage Humidity	10 - 90%	10 - 90%	10 - 90%
Battery Type	Li-ion (portable)	Li-ion	Li-ion (portable)
Weight (less battery) (Kg)	1.8	2.6	1.4



Panel Dimensions (mm)

	Length	Width	Depth
Panel Size	"X"	"Y"	"D"
1024	330	160	35
1036	570	160	50
1043	525	160	29

CONTACT US

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