

DXB:1

DIGITAL X-RAY BUGGY



NEW
FOR 2021

DXB:1 DIGITAL X-RAY BUGGY

PIPELINE CRAWLERS • BETATRON PORTABLE X-RAY • DIGITAL RADIOGRAPHY

JME would like to present our newest product, the **DXB:1** Digital X-Ray Buggy; designed to produce high-quality panoramic digital radiographs of circumferential welds in applications such as new pipelines. As a versatile and configurable system, it can also be utilised for use in various non-pipeline applications, such as the inspection of tank walls or other ferrous metal structures.

This digital system is a replacement for traditional film radiography; so no more chemical processing, dark rooms, or flaws associated with conventional radiography. The **DXB** includes a high-definition digital panel for instant verification of image quality and system settings. Images are digitally stored, preventing the need for film storage and enabling a permanent record to be saved within the control tablet. These can be backed up via USB or using a Network connection, allowing the images to be sent to an on-site Radiographer seconds from acquisition.

JME's **DXB** system also communicates and integrates with our entire **CR2** Pipeline Crawler Range. This allows 2-way communication between the Pipeline Crawler and **DXB**, giving configuration of key crawler parameters from the **DXB** control tablet. This integration also allows commencement of inspection with the push of a single button. The **DXB** operator is able to control, adjust and view the status of the **CR2** crawler at all times during an inspection task.

With a rapid magnetic deployment system, the **DXB:1** can be positioned by a single person in less than a minute. The system is attached using full time magnets, meaning in the event of a loss of power the unit will remain firmly attached to the pipe. This quick and efficient deployment dramatically increases productivity on-site. There is no need for welding bands to be deployed and relocated between each inspection which again greatly improves efficiency on-site.

DXB:1 SYSTEM FEATURES

- Deployed in seconds, no welding bands required
- One-Touch Inspection
- Wireless, No Cable Management
- Comprehensive safety interlocks
- Allows for 'Cloud-Based' image inspection
- Digital storage of images locally or web-based
- Fully integrated with Crawler operation



PROUDLY SUPPLYING THE NDT INDUSTRY FOR OVER 30 YEARS



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TECHNICAL SPECIFICATIONS

OVERALL SYSTEM SPECIFICATIONS

Buggy width	221 mm
Min. pipeline diameter	13.5" (343mm)
Average scan speed	15 mm/s (including imaging time and movement between images)*
Clearance from pipe surface	205mm (6Ah)
Image quality	Image quality class B acc. ISO19232-5, ISO 10893-7, ISO 17636-2
Image format	DICONDE compliant data export, via network or USB
System weight	Buggy, Detector and Battery - < 44.1 lbs (< 20Kg)
Dimensions (mm)	Overall Package Kit 2 Cases - 690(L) x 530(W) x 290(H)
Positioning	Manually Positioned Directly onto pipe. Cut back with no bands
Operating temperature	-20°C to +60°C
Power consumption	< 50W
Imaging X-Ray energy	Up to 300kV (depending on Pipe Wall Thickness)
Internal image storage	Capacity 500+ Images @ 36" pipe (+USB Drive Storage)

* DEPENDING UPON PIPE SCHEDULE

DXB SYSTEM IS SUPPLIED IN 2 RUGGED FLIGHT CASES

IMAGING

Resolution	50-100 µm
Technology	CMOS
Image stitching	Uses image feature matching algorithm

CONTROL TABLET SPECIFICATIONS

Display	10.1" 10-point capacitive multi touch screen, LED backlight for daylight visibility + Waterproof digitizer pen for improved ease of use
Certification	MIL-STD-810G certified IP65 certified sealed all-weather design
Power option	Li-ion 11.1 V, 4200 mAh
Dimensions (mm)	269(L) x 188(W) x 20(H)
Weight	2.4 lbs (1.09Kg)
Operating system	Windows® 10 Pro

BUGGY POWER OPTIONS

Battery Specifications	54V 6Ah
(Dewalt Flex Volts)	54V 9Ah
	54V 12Ah

CONTROL SOFTWARE

User Interface	Touch-screen use within user interface to improve user functionality. Image viewing and assessment functions for on-site checking of acquired images prior to formal interpretation. Removes the need for static workstations
Image acquisition	Automatic acquisition process, controlled by user
Crawler control	Full crawler control integration, to synchronise crawler operations and image acquisition
Additional functionality	Software includes functionality from the JME CR2 handset for Pipeline Crawler and X-Ray source control
Image control	Acquired images are stitched together within the control software for easy onsite referencing
Image ID	All images are tagged with GPS co-ordinates

All specifications correct at time of printing - Please check for alterations before purchase



DXB SOFTWARE SUITE

The DXB Software Suite allows for real-time X-Ray image acquisition, along with viewing, image processing and archiving of images. The Pipeline Crawler and X-Ray source settings can be controlled directly from within the software without the need for other control devices. X-Ray images are stored in DICONDE data format and saved to the current project, along with any additional photographs, notes, inspection date, time and GPS co-ordinates. Using the JME stitching algorithm, a single image can be viewed in real-time, with the full weld stitched upon completion of the weld acquisition.



Project settings, DXB Control and basic image manipulation can be controlled directly from the control tablet

SALES AND MANUFACTURING

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