

GW-4™ X-ray System

Pipeline Girth Weld Scanner



The GW-4 is an automated digital X-ray scanner for inspecting pipeline or vessel weldments during new construction.

Using the latest CMOS X-ray imaging technology, the GW-4 can complete a 3 inch wide, high-resolution scan of a 24 inch pipeline in one to two minutes depending on pipe wall thickness.

The system is sturdy, compact, lightweight and easily deployed on the pipeline by one person. Using a unique magnet drive system, the GW-4 can be mounted to the pipeline, ready to scan, in less than 30 seconds.

The GW-4's integrated controller handles the scanning tasks, while the operator's portable workstation captures the inspection, allowing instant analysis and digital storage of the inspected weld.

Specifications

pipe size:	Steel pipe 6" and larger.
image resolution:	80 microns (.003") with binning and averaging options for increased speed and contrast.
sensitivity:	2-2T
X-ray requirements:	X-ray crawler with constant potential tube.
weights:	Scanner: 16 lbs. 100' cable: 27 lbs. Workstation: 32 lbs.
scan control:	Up to 1.6 seconds per inch, depending on pipeline diameter and wall thickness. Controller integrated with X-ray image parameters for automatic speed control.
image file size:	At 80 micron, 150KB/sq.in., i.e. 25 Mbytes for 3" wide scan of 24" pipeline girth weld. Small file size with binning applied. DICONDE, jpg, bmp, tiff, raw formats.
workstation:	3.0GHz DuoCore portable industrial PC, 2GB RAM, dual redundant 250 GB hard drives, CD-RW, DVD-R, 1.44 MB floppy, 15" "Sunbright" outdoor TFT 2.4M RGB Pixel 16.7M Color LCD 1024x768 600 NITS 600:1 contrast.
software:	Powerful software package including x-ray image acquisition/ enhancement/ measurement, scan manipulation, and image storage/ export. Real-time image scrolling feature.
power:	110-220 volts, 50-60 Hz, 120 watts total for workstation and scanner. Operates on 12V battery with sine-wave inverter.
case:	Durable field case provided for storage of the scanner and cable.

Specifications subject to change without notice.

www.cmosxray.com