

# EL<sub>SCAN</sub><sup>TM</sup> Pipe and Elbow Scanner

## **Background**

Governing agencies and committees specify that certain critical components need to be inspected in the gas, oil, fossil pulp & paper marine and nuclear industries. For many years, WesDyne has developed different techniques and systems to help assist these industries with their respective inspection processes.

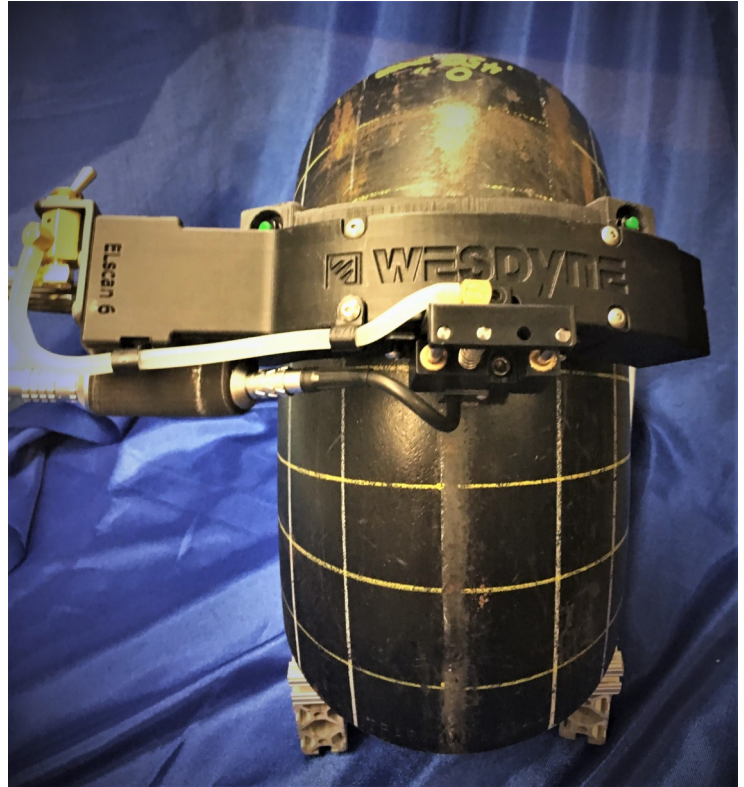
Spot inspections and elbow and pipe scans are common tasks in these industries. The EL<sub>SCAN</sub><sup>TM</sup> is a light-weight, compact manual scanner which can be a valuable tool in assisting with these types of inspections or developing Ultrasonic Testing (UT).

## **Description**

The AMDATA EL<sub>SCAN</sub><sup>TM</sup> manual scanner is a dual axis scanner designed for manually encoded scans of straight pipe and pipe elbows from 6 to 42 inches. The scanner employs a flexible phased array ultrasonic transducer to collect high resolution thickness measurements on elbows and pipe.

Scanner bodies are designed so one can easily install or remove the phased array probe to transfer to a different diameter scanner body.

The scanner bodies are designed to inspect any portion of a pipe elbow (intrados and extrados) providing full coverage.



**Scanner on elbow extrados**



**Scanner on elbow intrados**

# EL<sub>SCAN</sub><sup>TM</sup> Pipe and Elbow Scanner

## Physical Characteristics

- Scanner weight: < 2.0 pounds
- Minimum pipe diameter: 6 inches
- Maximum pipe diameter: 42 inches or flat

## Corrosion Resistance

- The scanner is manufactured from: Thermoplastic.
- The scanner is designed to be splash proof.

## Environment

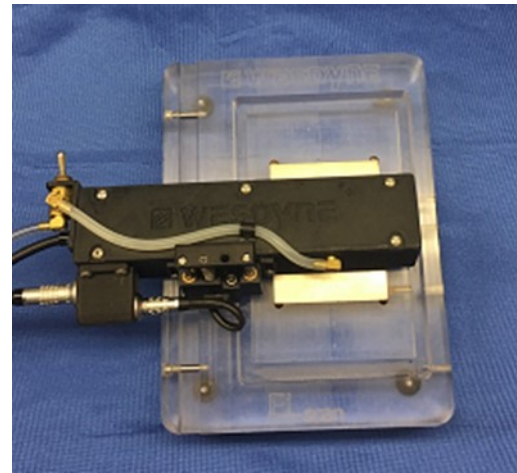
- Continuous operation at 10 - 40°C (50 to 104°F)
- Resists dirt, dust, and water splash.

## Available Kits

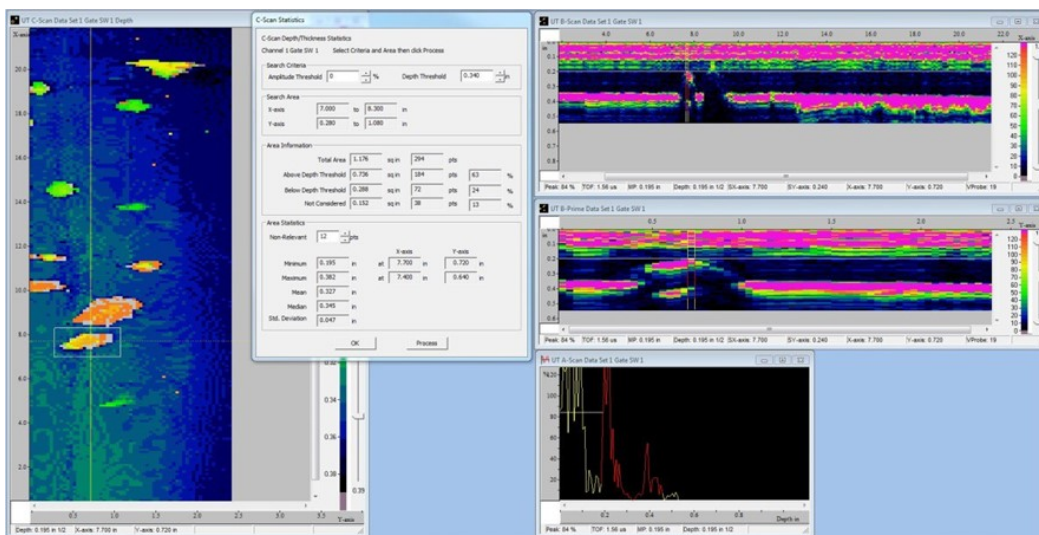
- Single scanner body with one phased array probe, portable Pump-in-a-Box couplant pump (customer specifies pipe diameter to be inspected)
- Three scanner bodies with one phased array probe, portable Pump-in-a-Box couplant pump (customer specifies pipe diameters to be inspected) Probe is easily swapped between scanner bodies.
- Five scanner bodies with one phased array probe, portable Pump-in-a-Box couplant pump (customer specifies pipe diameters to be inspected) Probe is easily swapped between scanner bodies.

## Recommended Options

- Flat Calibration Fixture, for probe, and standard (customer must indicate standard thickness and material)
- Shipping case



Flat Calibration fixture



IntraSpect™ C-Scan statistics analysis on pipe elbow quadrants