

Navigator Scanner

Navigator Steerable Technology

WesDyne NDE Products & Technology introduces another product in a long line of innovative automated scanners: the Navigator. The Navigator is a trackless scanner, ready to run across any carbon steel surface, moments after being unpacked at a worksite. The Navigator is then free to roam any course as directed by its operator via joystick, or under computer control. Best of all, the Navigator is a workhorse scanner. It is ruggedly built, but also flexible enough to handle the rough terrain of real world inspection environments.

BENEFITS

- Ability to scan as large of an area as it can roam, limited only by the length of its umbilical cable (75' or greater).
- Can crawl into narrow spaces to perform inspections.
- Ability to move and scan around obstacles (it can literally drive in a circle).
- Minimal installation time (saves labor); remove the Navigator from its box, connect its umbilical cable, and it is ready to go.
- Eliminates the need for scaffolding to reach high elevations on an inspection surface.
- Eliminates the need (and additional labor) to precisely install tracks.
- Eliminates the need (and cost) for owning numerous styles and sizes of tracks for various applications.
- If in hazardous environments

(such as radiation fields), minimizes personnel exposure during setup.

- It is not a delicate, for-laboratory-use-only scanner. It can be taken and used at remote field locations: rugged, lightweight and portable.
- Can attach to, and scan surfaces with complex geometries.
- When used with an IntraSpect™ system, it produces high quality UT and ET images of large areas in a single setup.

ENHANCED FEATURES

- Steerable control technology allows coordinated, three axis motion via master-slave servo motors.
- High powered magnetic wheels and a flexible suspension allow the Navigator to handle abrupt discontinuities without fear of falling off vertical surfaces.
- Onboard reference reflector to perform cal checks without retrieving the Navigator. (Model LS only)
- Interfaces to a 3 axis IMC scan controller and IntraSpect™ to perform automated ultrasonic and eddy current imaging inspections.*

AVAILABLE OPTIONS

- Cameras for visual feedback in obstructed or narrow passageways.
- Skewing device to provide variable rotation of transducer housing.

- Inclinometers to provide operator feedback of scanner angular orientation.
- “Flagpole” configuration, using a Y-axis arm of up to 7' (2.1 m) long.

** Separate data sheets are available which describe AMDATA IntraSpect™ series of ultrasonic and eddy current imaging systems.*

