

Pan-X

Panoramic X-Ray detector for car and truck tires

The PAN-X panoramic X-Ray detector is a high-resolution fully digital line diode array. PAN-X sensor can help you identifying construction details and anomalies such as foreign material inclusions, component dimensions and position, bad splices, and belt stepoffs.

The sensor is controlled by an industrial PC-based system through an optical fiber noise-free connection.

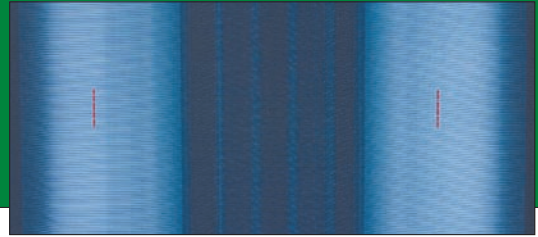
The u-shaped construction provides minimum geometric distortion, and, with its modular design, you can adjust the sensor over a wide range of tire sizes. By scanning a rotating tire between the X-ray source and the line diode sensor, the system creates a high-resolution image that is suitable for automatic defect detection.

■ FUNCTIONS (with the available software)

- Automated page-by-page image display
- Advanced tools for manual image operator inspection
- Automated cord spacing control
- Parallel software architecture to reduce cycle time
- Automated image store onto hard disk for off-line quality tire review

Features & Benefits

- Long life components
- Easy maintenance by plant staff
- Very high line rate
- High speed LVDS data link for low image acquisition time
- High spatial and grey level resolutions
- Optical fiber for noise-free connection toward the control PC
- Fully digital
- Compact, Modular and Scalable Design



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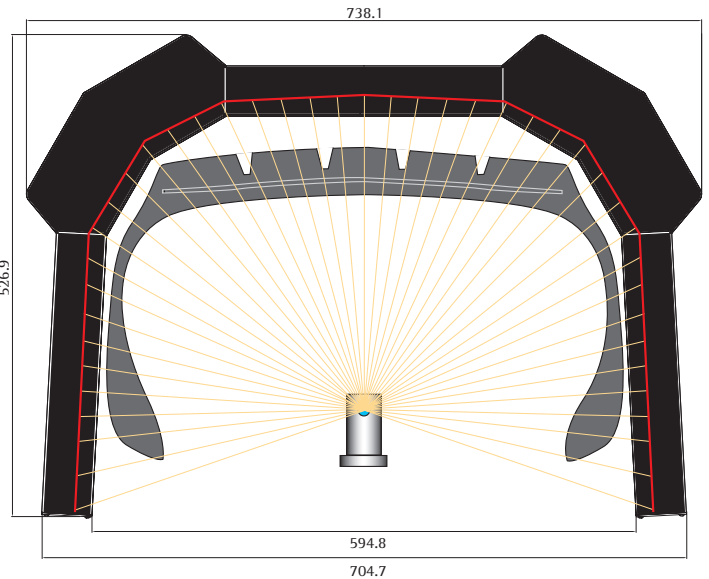
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■ MAIN CHARACTERISTICS

Scan time	9-11 sec (*)
Scan speed	Up to 24 m/min
Pitch	0.4/0.8 mm
Pixel per line	3328/1664
Line rate	Up to 1000 lines/sec
Resolution	12-bit/4096 gray levels
Max tire width	540 mm

Compliant to CE/UL/CSA safety requirements

* At max speed, with 1150-1400 mm tire diameters



■ ORDERING INFORMATION

The PAN-X sensor system includes:

P/N	Description
2000 505 0294.2	Panoramic X-Ray Sensor
2000 505 0291.2	LVDS to RS422 Interface Box
2000 505 0292.1	X-ray Sensor Power Supply Box
3000 111 0017.1	Data Bus Cable
3000 111 0020.1	Power Cable
3000 111 0021.1	Optical Fibre Cable
Ask for configuration	Image Acquisition System

World Wide Service and Support

Alfautomazione main customers are multinational corporations and our assembly/test systems are installed around the world. We offers pre- and post-sales support and service from our headquarters in Italy and from our strategically located Sales and Service field offices.

Alfautomazione



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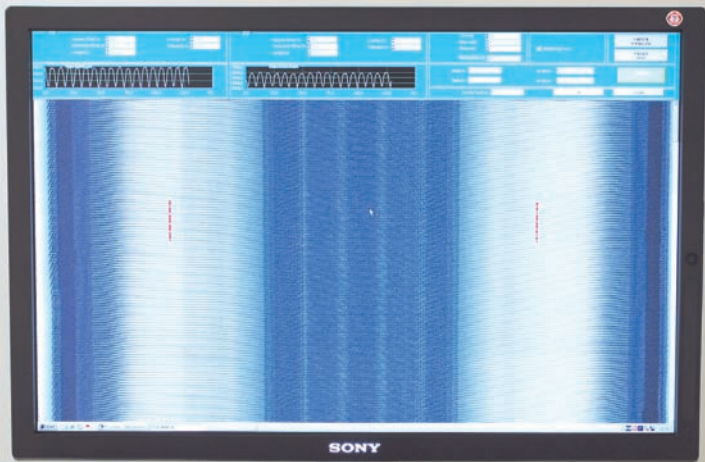
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■ OPTIONAL IMAGE ACQUISITION SYSTEM

The panoramic X-ray detector can be supplied together with an Image Acquisition System to upgrade existing tire inspection machine or to equip the new ones.

Using a parallel software architecture, the image acquisition system reduces cycle time by keeping the tire load and unload process fully asynchronous to the operator image inspection process.

The image acquisition system uses National Instruments hardware & software products, including the NI PCI-1424 digital camera image acquisition board, application software developed using NI LabView®, and NI IMAQ Vision Library.