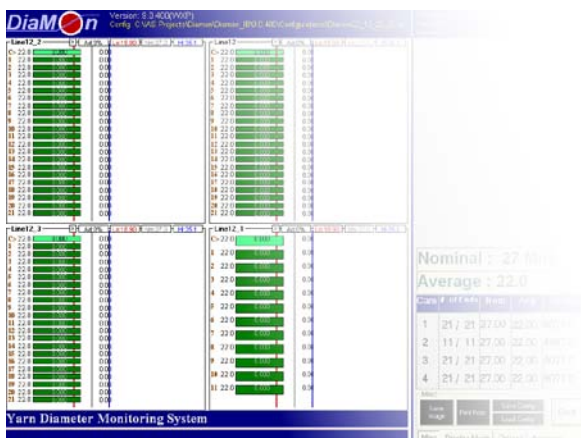


For Accurate Yarn/Wire Diameter Monitoring

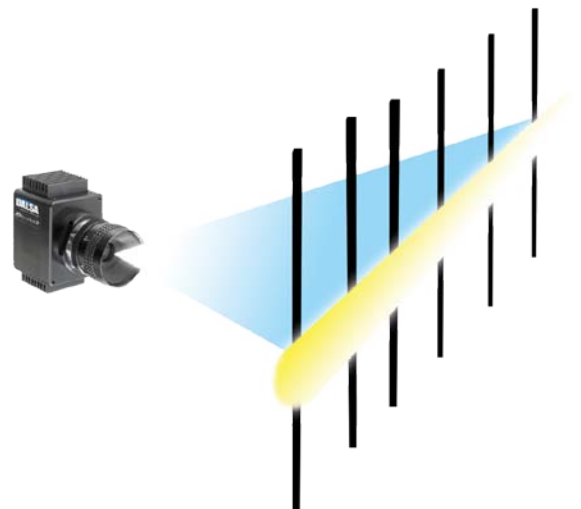
The DiaMon inspection system provides loom operators with real time, online diameter monitoring for multiple yarns or wires.

- DiaMon incorporates high-speed digital line scan optics that ensures consistent and repeatable product quality in finished goods.
- Intelligent DiaMon software automates and streamlines the inspection process.
- DiaMon is a complete, cost-effective quality monitoring system that monitors thread diameters, reduces waste, and increases bottom line savings.



Why DiaMon?

- Monitors up to 100 ends simultaneously
- Continuous on-line monitoring capabilities significantly reduce setup and startup costs
- Open system architecture gives ready access to plant SCADA systems for remote monitoring and controls integration
- High resolution scanner exploits minor diameter variations to give tighter process control and higher finished goods quality
- Automatically sounds an alarm or shuts down production machinery when quality falls out of spec



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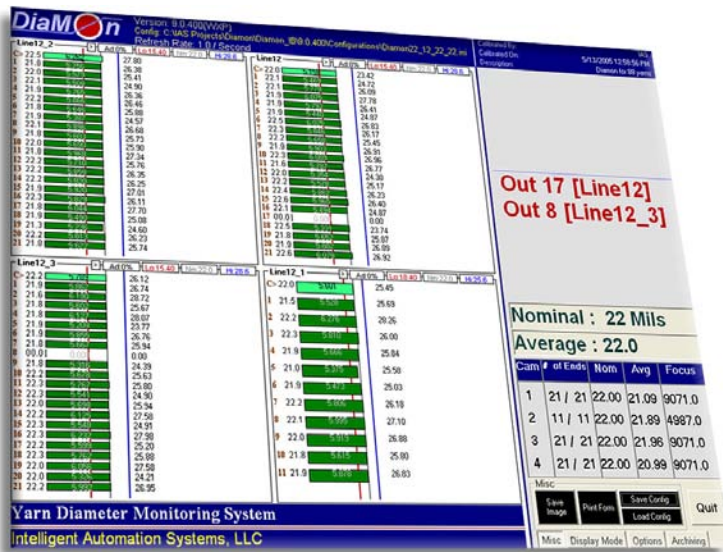
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An Advanced Vision-Based Diameter Monitoring System Packaged at an Affordable Price

DiaMon has a user-friendly interface. It displays diameters of each yarn/wire individually - graphically as well numerically. It also summarizes the diameters for each camera bank.

DiaMon can optionally provide statistical information about each yarn or wire in view. Such information is very useful in managing startup costs and meeting Statistical Process Control targets.



Features:

- Advanced high-speed digital linescan cameras
- Accurated in-process diameter measurement
- Detect and reduce 'thin-ends' while the product is still being manufactured
- Optional Automatic Control alarms or shuts down the machine when bad quality production is detected
- Simple calibration helps in overall quality control of operation

Technical Specifications:

DiaMon System:	DiaMon Utilities:
<p>Product Range:</p> <ul style="list-style-type: none"> • Minimum Yarn/Wire Diameter: 10 mils (0.25 mm) • Line Speed: 1300+ feet/min (400 m/min) • Colors: Color independent <p>Software:</p> <ul style="list-style-type: none"> • Operating System: Microsoft Windows XP® • Monitoring System: DiaMon- IAS Proprietary Software • Utilities: ConfigDiaMon – To calibrate and configure <ul style="list-style-type: none"> • AlignCamera – To align linescan cameras • DiaCon – (OPTIONAL) To control machinery <p>Industrial Computer:</p> <ul style="list-style-type: none"> • Processor: Intel 2.0GHz or better • Network: Ethernet port for integration into plant network <p>Imaging:</p> <ul style="list-style-type: none"> • LineScan Cameras: Four digital linescan cameras • LineScan Speed: 9600 lines/second • Resolution: 4096 pixels per line per camera • Pixel Size: 7 m x 7 m 	<p><i>DiaMon comes with several utilities. To help in setting up and configuration of the DiaMon System to meet specific customer requirements.</i></p> <p>ConfigDiaMon™ is a user interface that helps in configuring the calibration and product parameters. For example, a different nominal value can be assigned and different tolerance levels can be selected to handle each product's unique requirements. Multiple configurations can be created for each product/line.</p> <p>AlignCamera™ makes installation and calibration of the linescan cameras simpler. It graphically displays to the user what each linescan camera is looking at, with quantitative information about quality of focus etc.</p> <p>DiaCon™ is an optional package used to shutdown the machinery or sound an alarm when control limits are crossed.</p>