



Retina Systems, Inc.

Protecting Your Reputation

Retina 300 Series Vision Systems



Advanced Vision Technology
Retina 300 Series Vision Systems utilize advanced camera technology, highly specialized material handling designs, user friendly controls and application specific software algorithms to deliver 100% inspection capability for sorting, gauging, attribute verification, surface flaw analysis, crack/void detection and other inspection parameters.

With experience in many quality critical industries including aerospace, medical, automotive, electronic, fasteners and pharmaceutical, Retina's 300 Series Vision Systems deliver value in many ways... increased uptime, reduced scrap, elimination of containment issues and improved customer satisfaction.

Retina Vision Systems are designed to be exceptionally durable and reliable with the endurance to operate 24 hours a day, seven days a week.



IMAGE ACQUISITION

Retina's 300 Series Turnkey Vision Systems are modular in design and can utilize a broad range of camera and lighting technologies to meet your quality assurance and process control requirements.



MATERIAL HANDLING

Specialized material handling systems including continuous motion, nested dial, clear dial, shuttle, walking beam and split belt conveyors are designed to carry parts through the inspection area in a controlled, stable manner with speeds of 200 to 800 parts per minute.



SOFTWARE SYSTEMS

Standard software programs designed for quality assurance and process control provide 100% inspection capability for sorting, gauging, attribute verification (dimensions), surface flaws, crack/void detection and more.



CONTROLS

300 Series Vision Systems are designed with easy to use controls including simple push-buttons for power and subsystem operation, a durable keyboard to adjust parameters utilizing a menu driven operating system displayed on a 15" LCD screen.

For over 25 years, Retina Systems' personnel have provided non-contact, automated turnkey inspections systems, packaging systems, application expertise, service and support. Our patented laser and vision inspection systems provide 100% quality assurance for customers worldwide.

Retina 300 Series Vision Systems

SOFTWARE

Retina 300 Series Vision Systems provide machine operators with the ability to view processed images and inspection data simultaneously. Six sigma statistical data and production reports provide real time data for operational decision-making.

IMAGE ACQUISITION

Retina application experts will recommend the optimal combination of camera (VGA, line scan, mega-pixel) and controlled lighting (Profile and surface) designs to meet your application requirements.

CONTROLS

Durable pushbuttons control power-up functions. A retractable keyboard is provided for parameter adjustments using a menu driven operating system. A 15" LCD display provides high visibility part images, gauging tools, dimensional tolerances and counters.

PACKAGING

Retina automated smart packaging conveyors are available for all 300 Series Vision Systems including a No-Stop option and Over/Under packaging system. Bagging systems are also available.

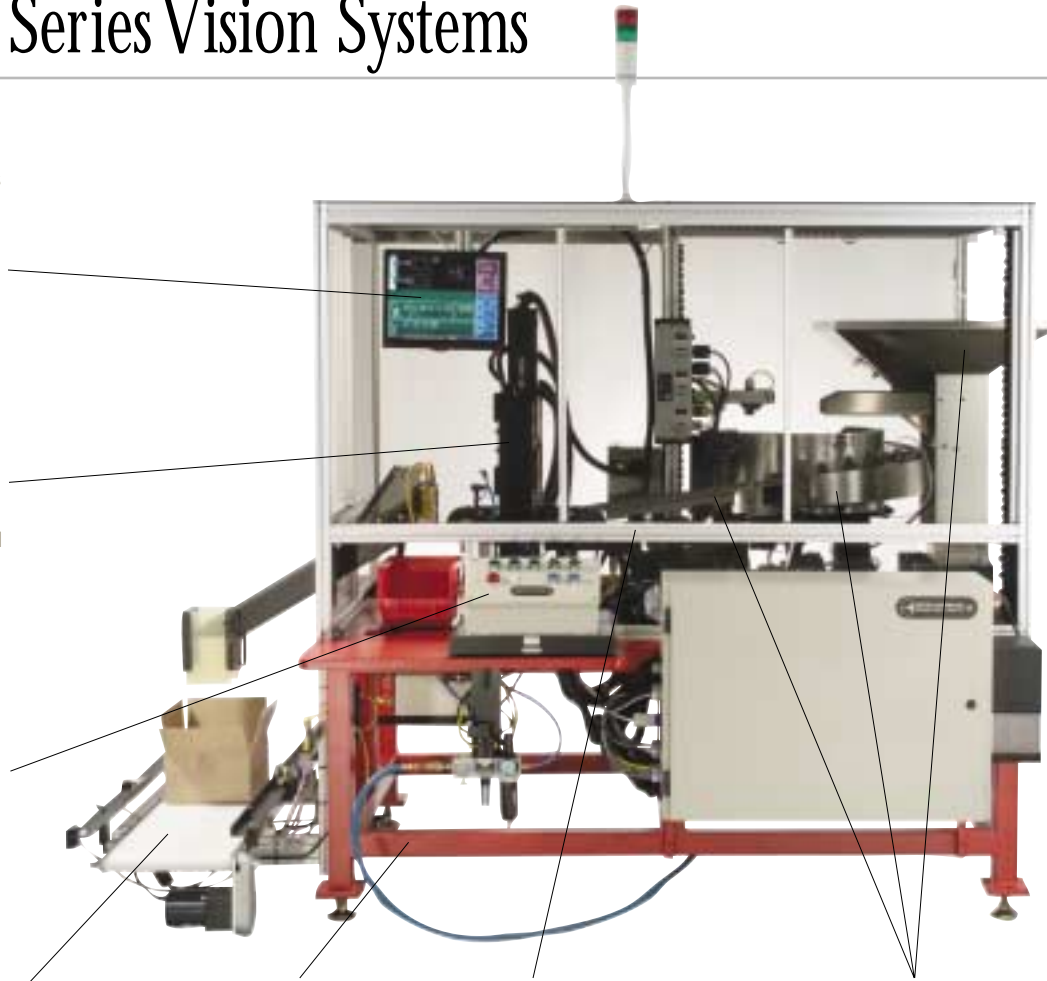
SUPPORT TABLE

300 Series Vision Systems are mounted on a durable 1" thick steel plate table with bake-coated paint.

SOUND ENCLOSURE

An optional sound enclosure constructed of extruded aluminum with black lexan inserts (lined with urethane crate foam) is available.

MATERIAL HANDLING Continuous motion clear dials enhance viewing of parts from above and below. Nested dial systems present hanging parts for inspection of headed product. Split belt conveyers are available for through-hole product inspection. Parts are carried throughout the entire inspection process utilizing a vibratory feeder bowl and vibratory inline feeder.



RETINA CERTIFIED

The inspection capability of every 300 Series Vision System is certified using MINITAB software to perform an ANOVA based gauge R&R at Retina's facility prior to shipment. The certification test can be performed at various intervals by Retina service engineers with a preventative maintenance contract to ensure your system is gauging accurately at your facility.



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