

# PharmaScan™ Liquid Automated Visual Inspection Systems



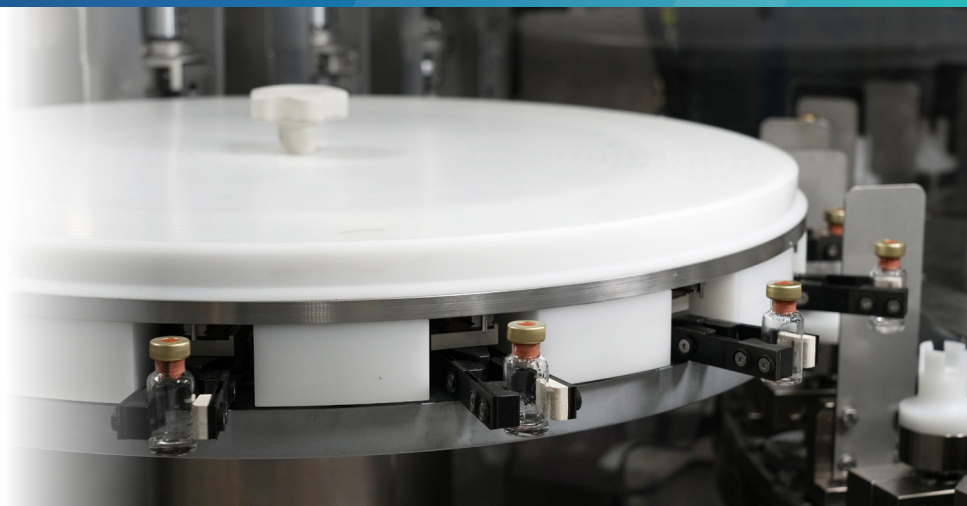
## UNCOMPROMISING QUALITY ON INSPECTION FOR CLASSIFICATION, QUALITY CONTROL, OBJECT AND ANOMALY DETECTION

ATS' cutting-edge automated liquid visual inspection system is the pinnacle of precision and innovation. Our solution goes beyond industry standards, allowing you to effortlessly detect near microscopic imperfections in parenteral liquids. Can be seamlessly integrated into your production line.

Meets FDA requirement for 100% inspection of every injectable product for visible particulate. Leverages the power of ATS SmartVision™ to do complex quality inspection with up to 28 independent cameras.

· Define AQL thresholds; set process control limits · Product colour, particulate, dirt · Container defects · Product-specific defects · Reject trend analysis

# For Producers of Pharmaceuticals and Parenteral Drugs



## Inspecting parenteral therapies as per GMP standards

- Closure integrity
- Particle detection
- Identifying bubbles
- Container damage

## Suitable for

- Clear or translucent liquids, emulsions, or viscous solutions
- Clear or color, glass or plastic containers
- Vials, syringes, ampoules, and cartridges

## ATS has developed thousands of Machine Vision applications

- High processing speeds
- Highly-accurate sub-micron inspections
- Multiple camera systems
- Infrared or ultraviolet lighting
- Vision-guided motion systems
- 3D positioning for robotics applications
- Systems in radioactive environments
- Area Scan and Line Scan systems



Specification	Syringe	Cartridge, Vial, Ampoule
Dimensions (mm)	2,000L x 2,800W x 2,700H	4,200L x 3,800W x 2,700H
Throughput (max)	Up to 600 ppm	Up to 600
Inspection dials	1	2
Cameras (max)	Up to 18	Up to 28
Container size	Up to 5mL (15mm diameter)	2 – 30mL
Outfeed options	Inline (standard) Denest/Renest (8,800mm x 2,400mm)	Inline (standard) Denest/Renest (8,800mm x 2,400mm)
CCIT	HVLD	HVLD
Additional inspection	Bubble	Bubble
AI/ML integration	Yes	Yes

Validated AI/machine deep learning algorithms and low false reject rates; process analytics to quickly identify and trend faults. 21 CFR Part 11 compliant data handling and archiving. Custom solutions for unique or prototype products.

**A built-in-North America AVI solution with local support and world-class serviceability.**



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