

# Pharmascan™ Series for High-Performance Vision Inspection

Inspection of Parenteral therapies and container integrity



Capable of Inspecting Containers and Lyophilized Solids (Cake), and Liquid drug/therapies

A high-performance solution designed specifically for the pharma industry



## Liquid

Define AQL thresholds; set process control limits.

- Product colour, particulate, dirt
- Container defects
- Container closure integrity
- Reject trend analysis



## Lyophilized Cake

Near 100% accuracy in a single pass ~60GB of images per minute.

- Appearance variations
- Headspace gas analysis
- Batch-to-batch variations
- Fill line



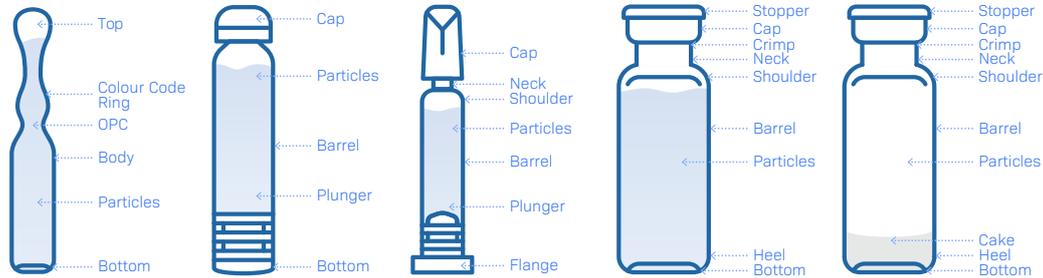
## Flex

Capability to prototype, design and integrate vision inspections.

- IV and Cryo Bags
- Low throughput
- Emulsions
- Opaque and highly viscous liquids

## Vision Inspection System Capabilities

Less risk, more confidence in your inspection for particles, cosmetic defects, and container integrity



Up to 28 cameras conduct visual examination for defects and visible impurities, including headspace analysis, seal (leak/CCI) testing, inspection of crimp, shoulder, and labels or other marking.

Inspection up to 600 ppm. 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.

### Typical inspection rate up to 600 ppm. ATS is a Certified System Integrator accredited by AIA.

Single pass inspection - Standalone or in-line - Hardware agnostic

| PharmaScan™ Series of Inspection Solutions  |   |   |  |
|---|---|---|--|
| FEATURES  |  Liquid  |  Lyo |  Flex |
| Multiple tests conducted - camera, visual and leak  | HVLD  | HGA   | ✓  |
| High-powered LED strobe lighting to 'freeze' product motion and produce sharp images              | ✓   | ✓   | ✓  |
| Inspection for particles, bubbles, cosmetic defects, and container integrity                      | ✓   | ✓   | ✓  |
| Optional headspace analyzer integrated on the inspection dials                                    | ✓   | ✓   | ✓  |
| Particle detection as low as 50um   | ✓   | ✓   | ✓  |
| False reject rates as low as 1%   | ✓   | ✓   | ✓  |
| Handles a variety of containers   | Vials from 2R-30R (2 – 30 mL)<br>Syringes up to 5mL / 15 mm<br>Cartridges, ampoules with barrel diameters from 8mm-22mm (2 – 30 mL) | Vials from 2R-30R (2 – 30 mL)   | IV and cryo bags   |
| Variety of formulas   | Clear liquid  | Lyophilized solids (cake)   | Opaque liquids, emulsions, viscous gels  |
| Unload multiple tub pitches; pick-and-place tub loading and unloading with de-nester or re-nester | ✓   | ✓   | ✓  |
| Leverages the power of ATS SmartVision™   | ✓   | ✓   | ✓  |
| High-speed individual servo control with parameter-driven spin profiles for particle inspection   | ✓   | ✓   | ✓  |

Choose the PharmaScan™ series for automated visual inspection and take your manufacturing to the next level!



Contact us at [lifesciences@atsautomation.com](mailto:lifesciences@atsautomation.com)

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