WSI Upgrade Datasheet

WSI

Vision in Glass

WSI is a low cost upgrade for Super-Inspectors (SI 5*512, SI-II and SI3), designed to extend the life of these industry-favorite inspection systems by replicating functionality and performance using the latest in industrial vision components. The new RPS option adds stress inspection to your existing unit.

The WSI user-interface adds all the functionality of the latest computerized inspection systems, yet keeps the simplicity of the original machine. Added functionality includes:

- Off-Line setup
- "Nearly-Live" image display
- Freeze-on-reject
- Full zoom, and drag functions
- Comprehensive statistics
- Reject History display
- Unlimited Container Memory
- Touch-screen optimized
- Last 100 diagnostics displays of inspection and tracking data
- Daily System Log with parameter changes
- Enhanced Inspection Algorithms
- Remote Access and Diagnostics

(above) WSI user-interface. (top-right) Integrated Touch-screen Display and CPU Module.

In Legacy mode, the WSI user-interface and inspection systems have been developed to function and perform to the same standards as the SI, preventing costly re-training programs.

Enhanced modes are available to improve inspection performance and functionality, allowing the upgraded system to compete with, and in many cases out-perform, the competition. Continued development from the WSI team, ensure further enhancements will be available.

WSI AVAILABLE FEATURES	Legacy	Full
Base Upgrade for 1055, 5*512, or SI2/3		
CPU Module (replaces all existing modules)	√	√
3 blemish inspection cameras	√	√
16" Wide LCD Touchscreen display	√	√
All mounting hardware and documentation	√	√
Legacy Mode (512 Vertical Resolution)	√	√
Smart Dimensional Mode		
Full Profile, Height, and Lean inspection	X	√
Improved Blemish Inspection	X	√
High-Res Mode (1024 Vertical Resolution)	X	√
Full Mode (up to 2048 Vertical Resolution)	X	√
Stress Inspection (Integral)		
2 Stress inspection cameras and illumination	X	X
Reject Confirm Alarm	X	√
Legacy Communication	X	√
Remote Access System	X	X

WSI PRECISION GUIDE	Max Bottle Height	Legacy Mode	1024 mode	Full Mode	Mega Pixel Comparison	Improvement
Vertical Resolution		512	1024	Up to 2048	1024	
Vertical Pixel Size(mm)*						
Standard	275mm	0.537	0.269	0.134	0.269	2.0x
Large	350mm	0.684	0.342	0.171	0.342	2.0x
Horizontal Resolution		Up to 2048	Up to 2048	Up to 2048	1024	
330ml Beer @ 350ppm		229	229	229	228	
.75l Spirit @ 100ppm		800	800	800	223	
Horizontal Pixel Size(mm)						
330ml Beer @ 350ppm		0.254	0.254	0.254	0.254	1.0x
.75l Spirit @ 100ppm		0.098	0.098	0.098	0.342	3.5x
					Max.	**7.0x**

* The WSI kit limits the maximum dimensional height capabilities of the upgraded system based on the original blemish camera field-of-view. For standard optics: 265mm (10-3/8in). For tall optics: (including SI-II and SI3): 325mm (12-3/4in). The Tall Stress Illumination option can provide height measurements to 325mm (12-3/4in) on green and amber ware on a standard optics system.

The RPS option offers the addition of 2-camera stress inspection integrated into the standard unit.
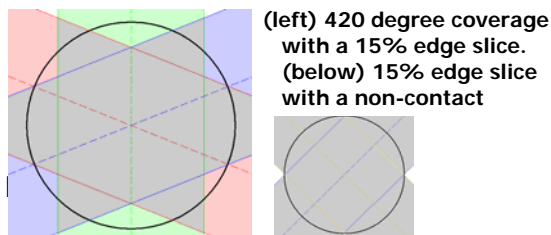
Other advantages include:

- Eliminates all existing and potential obsolescence issues on the 5*512s
- Fraction of the cost of a new replacement system
- Minimum learning curve and training
- Enhanced inspection performance available, with continuing customer driven developments
- Reduced cost of ownership
- Improved operational efficiency
- Short upgrade time
- Reduced carbon footprint

Advantages

The collimated optical system used on the SI and retained on the WSI, allows more of the container to be inspected. Along with the rotate system, up to *420 degrees of coverag*e is available, effectively eliminating edge-slice issues.

Continuous acquisition from the linear cameras provides *dynamic inspection precision*. Inspection precision on WSI can be over 7-times the equivalent mega-pixel array image. (see Precision Guide.)
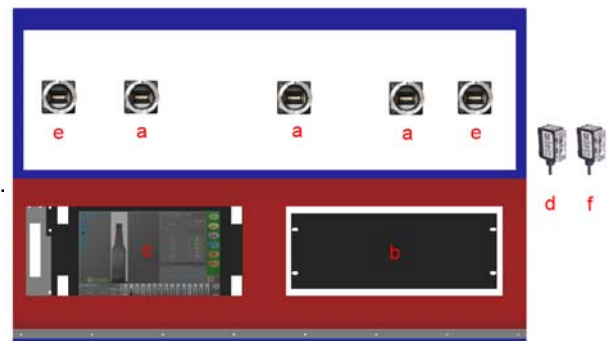
Dimensional Performance using three views improves reliability, and the increased resolution of the enhanced modes provides greater precision.

(left) 420 degree coverage with a 15% edge slice. **(below)** 15% edge slice with a non-contact

Upgrade Kit and Refurbishments

The WSI upgrade is offered pre-installed and tested as part of a full refurbishment program, or an installation kit to be installed in the field.

(right) System components.
a) 3 blemish & dimensional cameras
b) CPU module
c) Integral Touchscreen display
d) Reject sensor
e) 2 stress cameras (option)
f) Reject confirm (option)

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