

**Industrial  
Equipment  
Manufacturing**

# Machine Vision Traceability Solution in the Food and Beverage Industry

High OCR Rate for Recognizing  
Expiration Date and Labels

**ESRP-VAI-A3410**



Edge  
Solution Ready  
Package

- User-friendly, Flowchart-based User Interface
- Supports Multi-camera and Application Multitasking
- Compact and Thoughtful Design



**ADVANTECH**

*Enabling an Intelligent Planet*

**VisionNavi**

POWERED BY  
**ADVANTECH**  
**WISE-PaaS**

# Edge Solution-Ready Package

## ESRP-VAI-A3410



### User-friendly, Flowchart-based User Interface

Provides an easy approach to system installation and project deployment, while reducing time-consuming programming and potential maintenance costs.



### Supports Multi-camera and Application Multitasking

Supports up to four GigE Vision / USB Vision camera ports, with thread-safety and ability to multitask.



### Compact and Thoughtful Design

PCIe or PCI extension compatibility, Isolated Digital I/O, and Internal USB 2.0 connector.

Hardware Features		
Part No.	ESRP-MVS-A3410-P3	ESRP-MVS-A3410-P7
Processor	Intel® Core™ i3-6100, 3.7GHz Dual Core	Intel® Core™ i7-6700, 3.4GHz Quad Core
Memory/Storage	8GB DDR/ 1TB HDD	
Form Factor	Active cooling and front accessible	
Dimensions (WxHxD)	240 x 97 x 190 mm	
Display	1 x VGA, 1 x DVI-D	
Peripheral I/O	2 x RJ45, 10/100/1000 Mbps 4 x USB 3.0 1 x internal USB	
Camera Interface	2 x GigE Vision	4 x GigE Vision
Digital I/O	16 x Isolation DI (optional); 16 x Isolation DO (optional)	
Power Consumption	150W (typical), 200W (max); 24 VDC	
Environment	Operating Temperature: 0 - 45°C Vibration: 0.5Grms; Shock:10G	
Certification	CE, FCC, UL, CCC	

Software Features	
Compatibility	GigE Vision; USB Vision
No. of cameras	Up to 4 cameras
Type	Camera, image file input
Mode	Software, hardware trigger
Resolution	Up to 5.0 mega pixel
Color Format	Mono, bayer pattern
ROI	Rectangle, polygon, ellipse, circle, ring, pie
Identification	1D bar code, data matrix code, QR code, O.C.R
Alignment	
Gauge	Line, circle, angle, arc, pitch
Inspection	Spatial domain, frequency domain preprocessing
Sequence	Switch case, Loop, if else
Operator	AND, OR, NOT, XOR, addition, subtraction, multiplication, division
Data format	String, numeric
Protocol	TCP/IP, PLC
History	CSV file, image file, statistical analysis
Digital I/O	Trigger input, digital output, lighting control

### Ordering Information

ESRP-VAI-A3410-P3	2-CH Compact Vision System with VisionNavi. 6 Gen. Intel® Core™ i3 Processor
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ESRP-VAI-A3410-P7	4-CH Compact Vision System with VisionNavi. 7 Gen. Intel® Core™ i7 Processor
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