

**Industrial  
Equipment  
Manufacturing**

# Machine Vision Gauging Solution for Metal Processing Industry

Achieving 100% Yield Rates for Inline Inspection

Edge  
Solution Ready  
Package

## ESRP-VAI-UN02484



- Versatile Regions Of Interest That Help Increase Units Per Hour
- Comprehensive Conditional Operator for Advanced Applications
- Fanless, Cableless, and Highly Ruggedized with Embedded OS



**ADVANTECH**

*Enabling an Intelligent Planet*

**VisionNavi**

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

# Edge Solution-Ready Package

## ESRP-VAI-UNO2484



### Versatile Region Of Interest (ROI) That Helps Increase Units Per Hour (UPH)

Versatile focussed ROI such as rectangles, circles, polygons, and ellipses for spatial and frequency checking which helps to increase UPH.



### Comprehensive Conditional Operator for Advanced Applications

Provides various conditional branches, steps, and loops for different choices of application. Each inspection result at different stages can be recorded and becomes a reference for the next inspection stage. The results of each inspected item will be automatically saved as one log for easy look-ups.



### Fanless , Cableless, and Highly Ruggedized With Embedded Operating System

Designed for industrial environments with wide power input range, and wide operating temperature range for versatile ruggedized applications - increasing product reliability whilst reducing equipment maintenance cost.

Hardware Features		
Part No.	ESRP-VAI-UNO2484-P3	ESRP-VAI-UNO2484-P7
Processor	Intel® Core™ i3-7100U, 2.4GHz Dual Core	Intel® Core™ i7-7600U, 2.8GHz Dual Core
Memory/Storage	8GB DDR4/ 128G SSD	
Form Factor	Passive cooling and front accessible	
Dimensions (WxHxD)	200 x 70 x 140 mm	
Display	1 x DP, 1 x HDMI	
Peripheral I/O	4 x RJ45, 10/100/1000 Mbps 4 x USB 3.0	
Camera Interface	2 x GigE Vision	4 x GigE Vision
Digital I/O	16 x Isolation DI (optional); 8 x Isolation DO (optional)	
Power Consumption	55W (typical), 95.2 W (max); 10-36 VDC	
Environment	Operating Temperature: - 20 - 50°C	Operating Temperature: - 20 - 40°C
	Vibration: Operating, IEC 60068-2-64, 3 Grms Shock: Operating, IEC 60068-2-27, 50G	
Certification	CE, FCC, UL, CCC, BSMI	

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-UNO2484-P3

2-CH Rugged Fanless Edge Solution with VisionNavi.  
7th Gen. Intel® Core™ i3 Processor.

ESRP-VAI-UNO2484-P7

4-CH Rugged Fanless Edge Solution with VisionNavi.  
7th Gen. Intel® Core™ i7 Processor.

**ADVANTECH**

Enabling an Intelligent Planet