

**Industrial
Equipment
Manufacturing**

Machine Vision Inspection Solution for Semiconductor Industry

High Units Per Hour (UPH) Rates for Quality Assurance

Edge
Solution Ready
Package

ESRP-VAI-M770



- Advanced Decision Flow and Result Setting for Vision Applications
- Comprehensive Conditional Operator for Advanced Applications
- Compact Fanless System with High Performance CPU



ADVANTECH

Enabling an Intelligent Planet

VisionNavi

POWERED BY
ADVANTECH
WISE-PaaS

Edge Solution-Ready Package

ESRP-VAI-M770



Advanced Decision Flow and Result Setting for Vision Applications

Supports complex vision applications such as numerical, logical, and script operator.



Comprehensive Conditional Operator for Advanced Applications

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



Compact Fanless System With High Performance CPU

Wide operating temperature range, fanless system, powered by an Intel® 8th generation Core™ i socket-type processor.

Hardware Features	
Part No.	ESRP-VAI-M770-P5 ESRP-VAI-M770-P7
Processor	Intel® Core™ i5-8500, 3.0GHz 6 Cores Intel® Core™ i7-8700, 3.2GHz 6 Cores
Memory/Storage	8GB DDR/ 1TB HDD
Form Factor	Passive heatsink cooling and front accessible
Dimensions (WxHxD)	122 x 192 x 230 mm, with i-Modules MIC-75M20
Display	1 x VGA, 1 x HDMI
Peripheral I/O	2 x RJ45, 10/100/1000 Mbps 6 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	65W (Typical), 125W (Max); 9-36VDC
Environment	Operating Temperature: -10 - 40°C Vibration: 0.5Grms; Shock:10G
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-M770-P5	2CH Compact Fanless System with VisionNAVI. 8th Gen. Intel® Core™ i5 processor
ESRP-VAI-M770-P7	4CH Compact Fanless System with VisionNAVI. 8th Gen. Intel® Core™ i7 processor