

# CANON INDUSTRIAL IMAGING PLATFORM Vision Edition



## Canon's unsurpassed heritage in imaging technology provides visualisation in our new platform for industrial applications



#### Key Features of Vision Edition

#### 1 Only require one time setting of camera position



### 2 User-friendly flowchart allows easy configuration for anyone



### 3 Automate inspection process to minimise human error and streamline work process





With Vision Edition PTZ camera is able to detect the image automatically and read multiple images in an orderly manner with output values. Thus increases productivity and minimises error 111 et/ ΕĮ 

\*The automatic barcode detection and multiple reading functions are only available with network cameras that have the Canon PTZ function. AXIS cameras are not supported for these functions.

### 4 Automate the data entry for better accuracy and increased productivity

To provide an end-to-end platform for automation, data entry can be automated with Robotic Process Automation (RPA). RPA is the technology that allows anyone today to configure a "robot" to emulate and integrate the actions of a human interacting within digital systems to execute a business process.

In this instance, the final process of data entry is integrated with RPA Software to send raw data captured by network camera automatically into Warehouse Management System. This will reduce the mundane data entry process.



### RPA Capabilities

Automated

Data Entry



### Cameras and software are seamlessly integrated within various departments for total solution.



### Various Method of Detection

Vision Edition features a variety of units including color discrimination, shape matching, and number identification. When detecting whether or not workpieces, printed logos, and other objects are present, it uses a variety of methods according to circumstances.



### 18 Types of "Image Processing Units"





#### TECHNICAL SPECIFICATIONS

Supported camera						
Supportou Sumoru	Manufacturer	Camera	Туре	Optical zoom	Pan/tilt	Resolution
		N10-W02	-	none	none	1920×1080
		VB-S30D/VB-S30D Mk II	Indoor dome/micro	3.5x	350°/90°	1920×1080
	Canon	VB-S30VE	Outdoor dome/micro	3.5x	350°/90°	1920×1080
		VB-R13VE	Outdoor panning	30x	360°/180°	1920×1080
		VB-R13	Indoor panning	30x	360°/180°	1920×1080
		VB-H45	Indoor PTZ/standard	20x	340°/100°	1920×1080
		VB-S910F	Indoor box/micro	3.5x	none	1920×1080
	Axis	P1214	Separate head/micro	none	none	1280×720
		P1224-E	Separate head/micro wide-angle	none	none	1280×720
		M1065-LW	Wireless/micro	none	none	1920×1080
		M5065	Outdoor dome/micro	5x	3580°/90°	1920×1080
		V5915	Indoor PTZ/standard	30x	340°/110°	1920×1080
		P3905-R Mk II	Outdoor dome/micro	none	none	1920×1080
		P3915-R Mk II	Outdoor dome/micro	none	none	1920×1080
Simultaneous camera connections Camera units	Up to 4 cameras per flowchart Imaging, network camera position, network camera movement correction, grid PTZ					
Branch processing units	Branch processing, multiple branching conditions					
Image processing units	Density inspection, area, edge position, edge width, partial annular edge, approximate straight line edge, angle detection, circle detection, ellipse detection, blob detection, 1D code reader, 2D code reader, number recognition, character tecognition, analogi meter reading, color discrimination					
Model matching unit	NCC matching, Shape matching					
Robot operation units	Robot movement, robot movement correction, robot palletizing, robot hand, robot I/O					
Calculation units	Four basic calculations, angle calculations, multiple branching conditions calculation, maximum value/iminimum value.numerical formula calculations, output value statistical, two straight line intersection, two point calculation					
Supported PLC	PLC that supports SLMP transmissions (QnA compatible 3E frame) (Mitsubishi Electric, etc.) PLC that supports Open User Communication transmissions (Siemens)					

Note: Product specifications are subject to change without notice. For the newest information, please see the Canon website listed on the back of this catalog

Series		IPC427E	
Hardware			
CPU		Intel Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB cache, iAMT)	
Chipset		Intel CM236	
Main memory	Supported chip	DDR4 SO-DIMM	
	ECC	None (option available)	
	Capacity	4 GB	
nternal drive	SSD	128 GB SATA	
Expansion slot	PCI	PCIe x4, 1 slot	
Interface	Network	Gigabit 3 x Ethernet (RJ45)	
	USB port	4 x USB 3.0	
	Audio	none	
Keyboard		USB connection	
Mouse		USB connection	
Graphics	Port number/shape	DisplayPort x 2	
	Graphic controller	Intel® HD Graphics P530	
Power supply		DC 24 V	
Maximum power consu	Imption	64.8W	
Dimensions (B × H × T, mm)		262 × 133 × 85.5	
Weight		Approx, 2.5 kg	
Enclosure		Corrosion resistant full metal enclosure	
os			
Windows		Windows Embedded Standard 7 E SP1, English, 64bit	
Climatic conditions			
Protection grade		IP20, IEC60529	
Protection class		protection class I, IEC61140	
Vibration resistance	When operating	5 to 9 Hz: 3.5 mm, 9 to 500 Hz: 9.8 m/s <sup>2</sup>	
	Storage/shipment	5 to 9 Hz: 3.5 mm, 9 to 500 Hz: 9.8 m/s <sup>2</sup>	
Shock resistance	When operating	150 m/s <sup>2</sup> , 11 ms	
	Storage/shipment	250 m/s², 6 ms	
Temperature	When operating	0 °C to +55 °C	
	Storage/shipment	-40 °C +70 °C	
Humidity	When operating	5~80%, 25 °C no condensation	
	Storage/shipment	5~95%, 25 °C no condensation	
Noise emission		< 40dB(A)	
Voltage interruption		Max. 15ms	
ISO9001		Supported	



On/off switch	④ 4 x USB 3.0		
Power supply connection	⑤ DisplayPort x 2		
CFast expansion slot	6 3 x Ethernet (RJ45)		

Note: For product improvement purposes, product appearance and specifications are subject to change without notice.



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