

# CANON INDUSTRIAL IMAGING PLATFORM Vision Edition

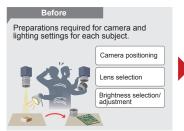


## Canon's unsurpassed heritage in imaging technology provides visualisation in our new platform for industrial applications



#### Key Features of Vision Edition

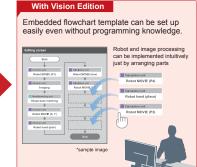
#### 1 Only require one time setting of camera position





## User-friendly flowchart allows easy configuration for anyone





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

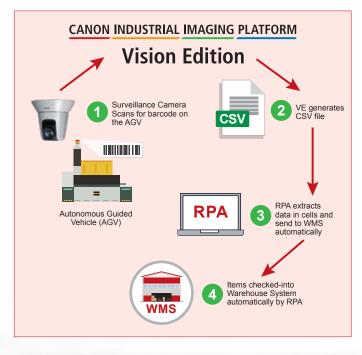




## Automate the data entry for better accuracy and increased productivity

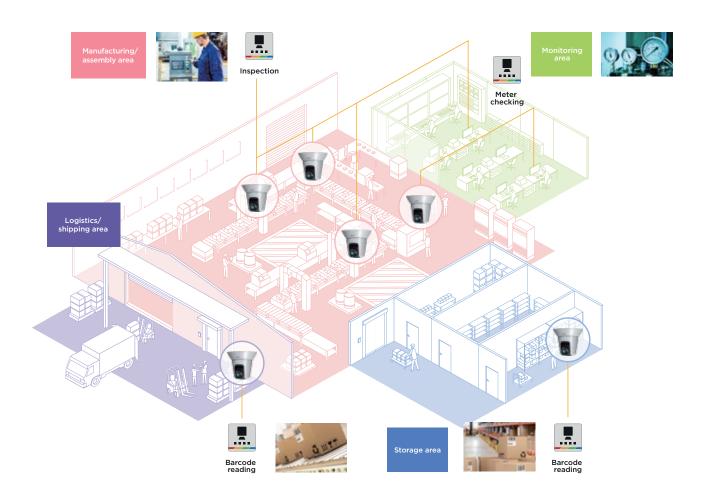
To provide an end-to-end platform for automation, data entry can be automated with Robotic Process Automation (RPA). RPA is the technology that allows anyone today to configure a "robot" to emulate and integrate the actions of a human interacting within digital systems to execute a business process.

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.



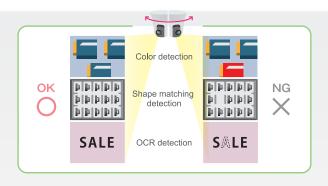


#### Cameras and software are seamlessly integrated within various departments for total solution.



#### **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"



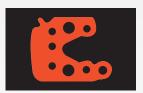
**Edge Detection** 



1D Code Reader



2D Code Reader



**Area Detection** 



**Analog Meter Readout** 



**Circle Detection** 



**Number Recognition** 

Shading Test • Edge Position • Arc Edge • Approximate Straight Edge • Angle Detection • Oval Detection Color Detection • Text Recognition • Circular Text Recognition • 7-segment Number Recognition

#### **Network Cameras that support Vision Edition**

















VB-S30VE

VB-R13VE

VB-R13

VB-S30D, VB-S30D Mk II

VB-H45

VB-S910F

N10-W02







AXIS













AXIS P1214 P1224-E

AXIS M1065-LW

AXIS V5915

AXIS M5065

AXIS P3905-R Mk II

P3915-R Mk II





Note: IPC is a product of Siemens. CANON INDUSTRIAL IMAGING PLATFORM

**Vision Edition** 



PLC Factory automation devices

#### TECHNICAL SPECIFICATIONS

Supported camera						
	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
		VB-S30VE	Outdoor dome/micro	3.5x	350°/90°	1920×1080
	Canon	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
		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
	Axis	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	Up to 4 camera	s per flowchart				
Camera units	Imaging, netwo	rk camera position, netwo	rk camera movement correction	, grid PTZ		
Branch processing units	Branch process	sing, multiple branching co	nditions			
Image processing units	angle detection	, circle detection, ellipse d	dge width, partial annular edge etection, blob detection, 1D coc , analog meter reading, color d	le reader, 2D		
Model matching unit	NCC matching,	Shape matching				
Robot operation units	Robot moveme	nt, robot movement correc	tion, robot palletizing, robot har	nd, robot I/O		
Calculation units	maximum value		s, multiple branching conditions Il formula calculations, output va Iculation		al,	
Supported PLC			QnA compatible 3E frame) (Mits	ubishi Electri	ic, etc.)	

#### SIMATIC IPC427E

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	
Internal drive	SSD	128 GB SATA	
Expansion slot	PCI	PCle 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 consumption		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/s², 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	



Power supply connection	⑤ DisplayPort x 2	
3 CFast expansion slot	® 3 x Ethernet (RJ45)	

