CANON INDUSTRIAL IMAGING PLATFORM

Vision Edition programming and operation quick reference guide ver1.0

•	Introduction		2
•	Vision Edition setting & programming f	low	3
•	System Settings and protection mode	(FBWF/UWF)	4
•	Typical flowchart program	· · · · · · · · · · · · · · · · · · ·	5
•	Flowchart programming		. 6
•	Onscreen keyboard and Value Entry 1	- ool	. 8
•	Online and Offline mode		9
•	Manual trigger mode for testing and c	debuaaina	10
•	Capture unit		11
•	Grid PT7 unit		14
•	Branching unit		17
•	Multi-Condition Branching unit		18
•	Main Screen Settings		20
•	Onscreen Info Settings		21
•	External Connection Settings	•••••••••••••••••••••••••••••••••••••••	21
•	Loa Records	•••••••••••••••••••••••••••••••••••••••	22
•	Output data type summary	•••••••••••••••••••••••••••••••••••••••	28
•	Repeat a routine predetermined time	s (use n+1 counter)	20
•	Perform different routine at each IOB	run and cycles (use Run Count and MOD)	30
•	Perform multiple inspections and sum		31
•	Simulation mode		32
-	How to use Vision Edition as an image	processing file server	JZ 3/
-	now to use vision camon as an image		04

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Introduction

This quick reference guide is aimed to support flowchart programming and operation of Vision Edition software. Please refer "Work Support Manual-Device Startup" and "Work Support Manual-Code Recognition" first for the initial hardware configuration and basic flowchart program.

For each image processing operation unit settings, there is a image processing quick reference guide and a training kit with sample image files to help understanding of the configuration.

After familiarised with basic operation of Vision Edition, please refer main instruction manual for detailed configuration and operation of the software.

Note : "robot" in this manual is explicitly refers to Denso's COBOTTA collaborative robot.

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Vision Edition setting & programming flow

Below is basic setting & programming flow of Vision Edition.

Both "Work Support Manual-Device Startup" and "Work Support Manual-Code Recognition" are following this basic flow as an easy start up guide. This quick reference guide provides further assistance for programming and operation while "Image processing quick reference guide" specifically aims to help setting up of each image processing units.

(1) Initial configuration

a) Physically connect cameras and other external devices (if required) to the network.

- b) Turn on "Vision Edition" PC, Vision Edition application should automatically start.
- c) Configure network and other system setting at Vison Edition System Settings menu.
- d) Configure network setting and other initial configurations of camera.
- e) Create a new Vision Edition JOB, assign and open.
- f) Register cameras.
- g) Configure trigger method and external devices communication parameters at External Connection Settings if required.
- h) Place target object at target position for a master image with optimum lighting.

(2) Flowchart and operation unit programming

- a) Create a flowchart. (Drag & drop operation units and connect them.)
- b) Configure Capture unit camera settings viewing angle, focus, exposure etc.
- c) Register a master image for each target object.
- d) Create a matching model for pattern matching task if required.
- e) Configure each operation unit in the flowchart image processing unit, branching unit etc.
- f) Configure output data at External Connection Settings if required.
- g) Configure log settings.
- h) Configure Main Screen Settings and Onscreen Info Settings if required.

(3) Debugging and preparation for live operation

- a) Trigger manually and debug each operation unit and whole flowchart program in offline mode.
- b) Switch to Online mode and carry out test run.
- c) Switch back to Offline mode, check the result and log records.
- d) Configure JOB assign list, default JOB and Vision Edition start up mode for live operation.

System Settings and protection mode (FBWF/UWF)



Typical flowchart program



1st path for parts width measurement with [Arithmetic Calculation] unit outputs pixel to mm conversion data. 2nd path for detecting a parts at parts tray. 3rd path for reading a pressure meter.

Flowchart programming – 1



Flowchart programming - 2



Onscreen keyboard and Value Entry Tool

When entering <u>numerical data</u>, double click the entry field and **Value Entry Tool window** will open to assist configuration by mouse.

Directly enter the number, incrementally adjust the value or use slider to change the value.



Online and Offline mode

Initially Vision Edition is in Offline mode for configuration, testing and debugging. Once programming and debugging is completed, click [offline] icon to switch to Online mode for live operation. To switch back to Offline mode, click [online] icon.



	Offline mode (configuration / set up mode)	Online mode (live operation mode)
Operation unit configuration, flowchart programming	Yes	No
JOB trigger	Internal manual trigger only for testing/debugging	Can receive external trigger or internal trigger
External device communication (receiving trigger, outputting result, sending log, loading different JOB)	No	Yes
Controlling Denso COBOTTA robot	Yes	Yes
Saving Log Images/Data/Screenshots	No	Can save
Saving Archive Images	Can save manually	No



NOTE : Sometime continuous repeat trigger button is accidentally clicked and whole software looks like frozen. At this status the system does not accept any other operation until continuous repeat trigger button or stop button is clicked.

Capture unit – 1 (global & individual capture setting)

[Camera Settings] menu used for registration has Capture TAB for global setting. However it is recommended to set capture parameter at individual [Capture] unit and create master image at each [Capture] unit with each optimum setting. **Example**: [Capture (barcode)] unit is set to view carton box to capture barcode. [Capture (parts)] unit is set to different camera angle and exposure to provide image for [Edge Width] & [Angle Detection] unit. Therefore individual capture settings are required.



Use this [Camera Settings] menu for camera registration and not to configure global capture parameters at Capture TAB.

Note : One-Shot White Balance adjustment for color detection should be carried out in this menu. (Capture unit do not have this function.)



Capture unit - 2 (PTZ adjustment and settings for Color Detection unit)



Capture unit – 3 (multiple camera use)



Grid PTZ unit – 1



Grid PTZ unit – 2



Grid PTZ unit – 3

(7) Open [Capture] unit for individual cell capture.
Do not tick Capture 1 TAB & Capture 2 TAB adjustment
boxes. Overview [Capture] unit parameter + [Grid PTZ] PTZ
parameter will be used for exposure and PTZ position.
Focus is set to Auto Focus at this stage. Manual focus will
ensure to keep the focus always the same and tick [Adjust
focus] and configure Manual Focus at this unit. Move to
other grid cells and check viewing angle and focus.



(9) Configure image processing unit to read information from each grid cell.
Select "Individual [Capture] unit" for [Target Image].
Every time JOB is triggered, [Grid PTZ] unit move PTZ camera to the next grid cell position.

(8) Create master

image from Others

unit.

TAB of this [Capture]



Branching unit

When connecting to other operation unit, 1st outward connection become "Yes" branch and 2nd connection become "No" branch.

Note : If [Judgement Result] is selected for Yes/No condition, it follows operation unit's overall OK/NG judgement result.

If other result (for example [Items Detected]) is selected, it follows each result's judgement criteria.

If [Items Detected] is selected on the right example, though NCC Matchina unit's overall result shows NG because nothing is detected. it takes Yes branch because default [Items Detected] judgement condition range is Min 0 to Max 10,000,000.

Change range as Min 1 to Max 10,000,000 then "1 or more detected" will take Yes branch and "Nothing detected" will take No branch.



Note : This particular counter resets when the JOB ends. Other "Run Count" counter is cumulative and does not reset after the JOB ends.



005

Multi-Condition Branching unit - 1



Example: in above example flowchart, three QR code instructions such as "Parts inspection", "Pressure meter" and "Weight read" are already registered to Data Dictionary as ID1, ID2 and ID3 at [003 2D Code Reader] unit.

Depends on the QR code detected (=according to dictionary ID number), different flowchart path will be taken and Vision Edition moves network camera to different viewing angle to obtain images, carries out image processing tasks such as parts width inspection, pressure meter monitor or reading weight from scale display.

Note 1 : Conditions are compared one by one from the top of the list and first condition to meet criteria is taken as a path. Note 2 : Once JOB is run, branch condition met the criteria is indicated in yellow at Branch No. and also shown at the top right corner.

Multi-Condition Branching unit – 2 (using Trigger Number)



Example: in above example, three different image processing tasks (Edge Position, Analog Meter Readout, Number Recognition) are variation of the part of long complex flowchart.

Depends on the application operator will choose which path to take by selecting [Trigger Number Selection] at [Main Screen Settings] menu.

When this JOB is run either in Online or Offline mode, flowchart always take one of the predetermined path.

There is an alternative method to create three different JOBs and selecting to assign to JOB1.

However if the flowchart is long complex program and variations are only small part as above example, this method makes future maintenance and update of common part of flowchart much easier than three separate JOBs.

Main Screen Settings

Main Screen Settings



Onscreen Info Settings



- 🗆 🗙 🥪 💷 Camera 1 Camera 3 O FTP Camera 2 Camera 4 ROBOT DE 618.3 NG Count Run Count Latest Run NG 2020-06-25T19:09:30 ntatartály / Zbiornik z atramen IP7250/iP8750/iX6850 MG5450/MG5550/MG5650 MG5655/MG6350/MG6450 MG6650/MG7150/MG7550 MX725/MX925 口頭口 **40.00**15 (()) ** * 1 4 960999 9 221 ΘQ

Note 1 : Only when the JOB is end, the result is updated to show the latest result.

Note 2: If the image processing unit runs multiple times (for example in a loop) only the last result is kept and displayed after the JOB ends.

Note 3 : Below unit's result is displayed as number of letters/digits as shown in the example.

1D / 2D Code Reader's Detected Text Strings

 Text / Circular Text Recognition's Detected Text This is the same restriction as External Connection

External Connection Settings – 1 (trigger and devices)



External Connection Settings – 2 (output data)

External Connection Settings

External Connection Settings menu defines how to trigger Vision Edition JOB and how to output JOB results to external devices such as PLC/Denso COBOTTA robot / UR controller.

Note : JOB results can be also output as Log Data (CSV file) to FTP server or Database.

Use Data (Values) TAB to output results of "number" data to PLC / Denso COBOTTA robot / UR controller.

Ext. D	Data (Values) Data (Text Strings)		Ext. Devic	es Data (Valu
No.	Output Value		No.	
01	📮 🗸 🖸 002 🗸 Detect 🗸 1 🗸 Outpu 🗸	^	01	~
02	📄 🗸 🖻 003 🗸 Detected Digit 🗸 Outpu 🗸		02	~
03	📮 🗸 🖻 004 🗸 Detected Text 🗸 Outpu 🗸		03	~
04	📄 🗸 🖻 005 🗸 Detect 🗸 1 🗸 Outpu 🗸		04	~
05	📄 🗸 🖻 006 🗸 Distance 🗸 Outpu 🗸		05	~
06	~		06	~
07			07	~
08	~		08	~
09	~		09	~
10			10	~
11	~		11	~
12	v		12	~
13	~		13	~
14	~		14	~
10		¥	10	
	OK Cance			

External Connection Settings Data (Text Strings) Output Value OK Cancel

Use Data (Text Strings) TAB to output results of "text strings" as ASCII data to PLC.

They are specifically below 4 result data.

- 1D Code Reader [Detected Text Strings]
- 2D Code Reader [Detected Text Strings]
- Text Recognition [Detected Texts]
- Circular Text Recognition[Detected Texts]

Note 1 : These "text strings" data cannot be sent to Denso COBOTTA robot nor UR controller.

Note 2 : if 1D/2D Code Reader [Detected Text Strings] result is specified on Data (Values) TAB, it will output number of characters instead of actual codes.

Log Records – 1 (Log Images)



Log Records – 2 (Log Data (CSV))



Between (a) Log Data (CSV) and (b) External Connection output data / Onscreen Info display data gives different output as below example.

<(a) Log Data (CSV)>

1D Code Reader [Detected Text Strings] : actual barcode number 2D Code Reader [Detected Text Strings] : actual barcode number Text Recognition [Detected Texts] : actual barcode number

<(b) Data>

1D Code Reader [Detected Text Strings] : number of digits 2D Code Reader [Detected Text Strings] : number of characters Text Recognition [Detected Texts] : number of characters



Log Records - 3 (Log Data (Database))

Preparation of database

Setup database server and create a database. Also create a Control Table and Control Records.

Database settings

Setting	Value				
IP address	Any, as long as it is on the same network as the image processing controller and it does not create an IP address conflict.				
Port number	Any, as long as it is on the same network as the image processing controller and it does not create a port no. conflict.				
Database name	Any, as long as it conforms to the naming rules of the database type used.				
User name	Any, as long as it conforms to the rules of the database type used.				
Password Any, as long as it conforms to the rules of the database type					

Control table structure

item	Column name	Column type	Function
Primary key	Number	Integer	Primary key of the control table. The record with a value of 1 for this column is used as the control record.
Command execution	CommandExecute	Integer	Executes the relevant process according to the command code set. The command is set to 0 when completed.
Command code	CommandCode	Integer	Set a number according to the process you want to execute. 101 = Trigger 1 102 = Trigger 2 103 = Trigger 3 104 = Trigger 3 104 = Trigger 4 1 to 40 = Switch to the respective job (JOB01 to JOB40)
Command response	CommandResponse	Integer	When the image processing controller receives a command code, the same data as the command code is written to this column as response. If the image processing controller cannot process the command due to an error, the following error codes are written instead. 91 = Camera connection error 92 = Job switching error 93 = Connection configuration error 94 = Cormand error 99 = Unexpected error The command is set to 0 when completed.
Command status	CommandStatus	Integer	Indicates that Vision Edition is processing a command. 1 = Command being processed The command is set to 0 when completed.
Command completed	CommandComplete	Integer	Indicates that Vision Edition finished processing a command. 1 = Command completed The command is set to 0 after the time set for command response elapses.
Command argument 1	CommandArgument1		
Command argument 2	CommandArgument2		
Command argument 3	CommandArgument3	Float	Values used as arguments when executing the command.
Command argument 4	CommandArgument4		
Command argument 5	CommandArgument5		

External Connection Settings Configure connection to database. Data setting is done at Log Records menu.

External Connection Settings Ext. Devices Data (Values) Data (Text Strings) Trigger External Trigger (Robot) External Trigger (PLC) External Trigger (Database) External Trigger (Camera) O Manual Trigger Configure No Output External Device Robot IP Address Configure PLC SLMP 192.168.0.10 IP Address 1433 Port No. Configure Database Database Name IP Address Configure Camera IP Address Configure 00000 OK Cancel

Log Records, Log Data (Database) TAB

Configure data to be sent to database.

Sav Sav Do	e Settings re Option Not Save	Database Se Database N V IP Address	ettings Table Sett ame Select Tab Configure Create	ings Die New Table
-Sav	e Settings	Column	Data Item	Preview
01	\		Re v Trigger Time (Local) v	01/01/0001 00:00:00
02	\			
03	^			
04	~			
05	\			
06	\	×		
07	\		~	
08	\		~	
09	^		~	
Destin	ation Folder	D:¥	1	Browse

Note : please refer main instruction manual for database preparation and communication settings.

Log Records – 4 (Archive Images and summary of log records type)



	Saving		Log save condition	FTP server	
Туре	environment	Log contents	(OK/NG : Flowchart judgement)	transmission	Vision Edition default folder
Log Images	Online mode	Capture unit's last image	Do Not Save, Save All, Save Only OK, Save Only NG	Yes	D:\HistoryCenter\LogImage
Screenshots	Online mode	Main screen image at the JOB end	Do Not Save, Save	Yes	D:\HistoryCenter\PrintScreen
Log Data (CSV)	Online mode	Operation unit's last results	Do Not Save, Save All, Save Only NG	Yes	D:\HistoryCenter\LogData
Log Data (Database)	Online mode	Operation unit's last results	Do Not Save, Save All, Save Only NG	No	Not applicable
Archive Images	Offline mode	Capture unit's last image	Manual operation	Yes	D:\HistoryCenter\RecordImage

Summary of log records available at Vision Edition

Output data type summary

Please pay attention when output below 4 image processing unit result as handling of number data and text strings data is different depends on the destination devices. 2nd table is reference example of all other image processing units output data.

Operation unit	Result item	Log Data (CSV) TO: FTP server / Database	Onscreen Info display TO: Vision Edition screen	External Connection Settings Data [Data (Values) TAB] TO: PLC/Denso Cobotta robot/UR controller	External Connection Settings Data [Data (Text Strings) TAB] TO: PLC as ASCII code
1D Code Reader	[Detected Text Strings]	actual code (e.g. 4960999904931)	number of characters (e.g. 13)	number of characters (e.g. 13)	actual code in ASCII code (e.g. 4960999904931)
2D Code Reader	[Detected Text Strings]	actual code (e.g. Canon123)	number of characters (e.g. 8)	number of characters (e.g. 8)	actual code in ASCII code (e.g. Canon123)
Taxt Pacagnitian	[Detected Texts]	actual text (e.g. Canon123)	number of characters (e.g. 8)	not to use	actual text (e.g. Canon123)
Text Recognition	[No. of Digits]	number of characters (e.g. 8)	number of characters (e.g. 8)	number of characters (e.g. 8)	not to use
Circular Text Recognition	[Detected Texts]	actual text (e.g. Canon123)	number of characters (e.g. 8)	not to use	actual text (e.g. Canon123)
CILCULA TEXT RECOGNITION	[No. of Digits]	number of characters (e.g. 8)	number of characters (e.g. 8)	number of characters (e.g. 8)	not to use

All other image processing units (reference example)

Number Recognition	[Detected Digits]	actual number (e.g. 258)	actual number (e.g. 258)	actual number (e.g. 258)	not to use
Nomber Recognition	[No. of Digits]	number of digits (e.g. 3)	number of digits (e.g. 3)	number of digits (e.g. 3)	not to use
7 Segment Number Decemption	[Detected Digits]	actual number (e.g. 258)	actual number (e.g. 258)	actual number (e.g. 258)	not to use
7-segment Normber Recognition	[No. of Digits]	number of digits (e.g. 3)	number of digits (e.g. 3)	number of digits (e.g. 3)	not to use
Analog Meter Readout	[Meter Value]	actual number (e.g. 150)	actual number (e.g. 150)	actual number (e.g. 150)	not to use
NCC Matching	[Judgement Result]	actual number (e.g. 0 or 1)	actual number (e.g. 0 or 1)	actual number (e.g. 0 or 1)	not to use

Repeat a routine predetermined times (use n+1 counter)

Example: Capture (with 1sec delay) and carry out NCC matching 5 times by multi-condition branching. If the target parts is detected within 5 cycles, come out of the loop at the 2nd branching unit and read text of the parts. If it is not detected after 5 cycles, capture different target's 1D code. [Multi-Condition Branching] unit is configured to repeat the loop if [005 Arith-Counter] value is less than 5 and when it reaches to 5, go to 1D code read routine. (Initial value of [005 Arith-Counter] is zero and count up to 5 when come out of the loop.) [004 Arith-plus1] unit and [005 Arith-Counter] unit works as n+1 counter. (Calc unit cannot refer and increment own value, therefore need two units.)

	Start		Unit002: Multi-0	Condition Branching							Enter the number for
	002 Cond. Branching]	Unit Name	Cond. Branching		☐ Multiple re	ference values ss at maximum run	count	Branch No. Max. Run Count	10	the loop to repeat.
	003.1		Branch No.	Connected Unit	Reference Value		Condition	Value 1 (V1)	Value	2 (V2)	Also [Constant] can
🙆 CAPT _ 012	@ CAPT - 001		1	001: Capture 🛛 🗸	🚍 🗸 😾 005 🗸 Calc. Valu	ie 🗸 Outpu 🗸	Less than V1 \sim	123 ~	5.000 🌩		be used instead of
Capture	Capture		2	012: Capture 🛛 🗸		_	Equal to V1 $$	123 ~	5.000 🖨		[Real Number] for
1DCOD - 007	Q NCCM - 003			×			Equal to V1 🔍		0.000 -		ease of programming.
1D Code Reader	NCC Matching		3						0.000		
	008]	Unit004: Arith	metic Calculation]	
	Branching									Г	
	Ves	No ARITH - 004	Unit Name	Aritn-plus	1			Calc. V	alue 1.000		Unit004: Arithmetic Calculation
	Text Recognition	Arith-plus1	Configurat	on Judgment Co	ond Others						Unit Name Arith-plus1
			No. Opera	ator (Term) Term's	s Value	Comments		
End		Arith-Counter	1		🗸 😾 005 🗸 Calc. Value	✓ Outpu ∨		0.000			Configuration Judgment Cond. Others
			2 +			1.000 🛋		1 000			Execution Condition
			2			1000		1.000		Γ	Reverse execution condition
			3	✓ □ 123	/	0.000		0.000			~
			Unit005: Arith	metic Calculation							
			01110051711111	Carcalation							Options
			Unit Name	Arith-Cou	nter			Calc. Va	alue 0.000		Clear results at start
			Configurat	ion Judgment Co	ond Others						
			No. Oper	ator (Term) Term's	Value	Comments	_	(For both [Arithmetic
			1		🗸 😾 004 🗸 Calc. Value	✓ Outpu ∨		0.000			Calculation] units, make
											sure to tick Clear results at
			2		×	0.000		0.000			start] box on Others TAB.

Perform different routine at each JOB run and cycles (use Run Count and MOD)



Example: One image processing task is carried out at the first JOB run, then one of the other image processing task is carried out at the next JOB run. All three image processing tasks are sequentially run in the same order and repeat at the every third JOB trigger.

[013 Arith-mod] calculates mod 3 of its "Run Count" value. When the JOB loaded and run repeatedly, this calculation value would repeat 0,1,2,0,1,2,0,1,2,,, and so on.

[Multi-Condition Branching] unit is configured to take path referring to this calculated value.

Perform multiple inspections and sum up as one value

Start		Four image processing unit inspection result is summed up here.
CAPT - 002	Unit020: Arithmetic Calculation	
Capture-1	Unit Name Calc	Calc. Value 0.000
NCC matching-1	Configuration Judgment Cond. Others	
CAPT 003	No. Operator (Term) Term's Value Comments
Capture-2		
Q NCCM - 016	2 + V L III V OIG V Judgment Res V	
NCC matching-2	3 + · · Q 017 ~ Judgment Res ~	0.000
Capture 3	4 + \checkmark \Box $\textcircled{\bigcirc}$ \checkmark $\textcircled{\bigcirc}$ 018 \checkmark Judgment Res \checkmark	0.000
		0.000
NCC matching-3	6 0.000	
@ CAPT - 005	7 > 0.000	
Capture-4	8 0.000	0.000
	9 0.000	0.000
NCC matching-4	10 0.000	0.000
Calc		
End	Comments	OK Cancel

Example : A PTZ camera inspects parts fitting using NCC matching at 4 different positions.

If any of the four parts are missing or incorrectly fitted, pattern matching unit returns NG Judgement Result.

[020 Calc] unit sums up all results and returns as one calculated value.

Since each OK result=1 and NG result=0, system can judge as 4=all inspection passed, less than 4=some of the inspection failed.

Simulation mode – 1 (using selected images)

unit has to be assigned to each image processing unit.



Simulation mode – 2 (using previously recorded images)

How to use Vision Edition as an image processing file server-1

Vision Edition can be used as an image processing server application where image files are fed to a source folder. Vision Edition carries out image processing task on these files without connecting to a physical camera for live image feed.

How to use Vision Edition as an image processing file server-2

How to use Vision Edition as an image processing file server-3 (7) Open [1D Code Reader] unit, select master image and capture unit. At [Region] TAB, click [Edit] and set region by mouse left & right click. (5) Open [Capture] unit. (6) At the Image File Settings TAB, specify Confirm that master image's barcode is Tick Cameral (Image File) [Source Folder] (which contains image correctly detected. and click [Configure]. files to process) and [Destination Folder]. Note : although live capture will not happen, 1DCOD - 002 Select [File Format] and [Reading Order]. 1D Code Reader capture unit still need to be selected. 🙆 CAPT _ 001 Capture Unit002: 1D Code Reader ABc 🚺 🕱 Camera1 (Image File ~ 1D Code Reader 5.068n NG := 0 Master Image Master Image001 Show Target Image 001: Capture Unit001: Capture Unit001: Capture (Camera1) ode Count Region onfiguration Data Dict. Judgm • Capture Unit Name Image File Settings N N 1 /1 | > > | + ata Dict. Entry: Configuration Others Region Type Rectangle enter X: Source Folder Operator Capture Fintatartály / Zbiornik z atramen Clear Edit C:¥Users¥CIIP-VE¥Desktop¥Test source PIXMA enter Y: Camera1 (Image File) Configure iP7250/iP8750/iX6850 Measureme MG5450/MG5550/MG5650 Browse Start X ngle: MG5655/MG6350/MG6450 Camera 2 Conf aure MG6650/MG7150/MG7550 123 1077 2 Destination Folder (to move after use) MX725/MX925 tected Text St Camera 3 Start Y 4960999904917 ISO/IEC 24711 www.canon-europe.com/ii C:¥Users¥CIIP-VE¥Desktop¥Test dest 123 ~ Camera 4 Configure 335 🜲 Browse End X (()) 照 () [] Options 123 1677 🜲 4 9009999904917 Delay before capture File Format BMP (*.bmp) End Y 123 ~ Delay (ms) 0 588 🜲 File Reading Order By Created Date Move Region Ascending K 1 🛪 Comments + -> O Descending OK Cancel ¥ 🖡 ¥ **B&W** Conversion Grayscale \sim Usable Image File Size Total Region Maximum (pixels) 1920 × 1080 Area 152654 Center X 1377.0 Minimum (pixels) 640 × 480 X:1818, Y:-224 0 0 🕀 Center Y 461.5 [01602] Text read from the code is not in the data dictionary Error OK Cancel Comments OK Cancel

How to use Vision Edition as an image processing file server-4

(9) Switch to online mode for live operation.

As Vision Edition receives trigger, it performs image processing on the image files at source folder and outputs the result to external device as configured.

Processed files are transferred to the destination folder.

