

# QUALITY INSPECTION

## INTRODUCTION

Our application specialize in advanced automation technologies such as surface detect inspection, OCR/OCV (Optical Character Recognition/Optical Character Verification), and critical measurements. These technologies are integrated into our specialized application, **QualityInspection**, which is designed to enhance precision and operational efficiency in various industrial processes.

## QUALITY INSPECTION DASHBOARD

ROKAM

QUALITY INSPECTION

← BACK

DASHBOARD

SETTINGS

USER MANAGEMENT

SKU MANAGEMENT

MARKING ITEMS

CAMERA MANAGEMENT

IMAGE MANAGEMENT

TEACH IMAGE

COMMUNICATIONS

INSPECTION

ALARMS

RESULTS

REPORTS

TCP SERVER

MODBUS TCP

EDIT IMAGE SETTINGS

## USER MANAGEMENT

ROKAM

QUALITY INSPECTION

← BACK

Last Modified on : 08-04-2024

USER MANAGEMENT

USER NAME

User Name

PASSWORD

User Password

ROLE

ADD USER

USER NAME	ROLE	REMOVE
a	Administrator	x
m	Maintenance	x
o	Operator	x

# SKU MANAGEMENT

ROKAM

QUALITY INSPECTION

← BACK

031

SAMPLE NAME

+

ADD

☐

COPY

SKU MANAGEMENT

Last Modified on :

ID	SKU CODE	REMOVE
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IMAGE SETTINGS

✕ DELETE

COMMUNICATIONS

✕ DELETE

CAMERA SETTINGS

✕ DELETE

MARKING ITEMS

✕ DELETE

to add new job

to copy from existing job

# MARKING ITEMS

ROKAM

QUALITY INSPECTION

SAVE ← BACK

031-SAMPLENAME

004

Enter Marking Name

+

ADD

MARKING ITEMS

Last Modified on :

ID	TYPE	MARKING ITEMS	REMOVE
001	PatternMatchMax	pmm	✕
002	ColorPixelCounter	cpc	✕
003	PixelCounter	pc	✕

1. SELECT SKU NAME

2.SELECT TOOL

3.ENTER MARKING NAME

4.ADD

5.SAVE

LIST OF TOOLS

Select Tool

004

PatternMatchMax

PatternMatch

ColorFilter

ColorPixelCounter

PixelCounter

CodeReader1D

CodeReader2D

OCRAI

OCRMax

CombineResults

# CAMERA MANAGEMENT

Steps :

1.SELECT SKU

2.SELECT CAMERA

3.SET EXPOSURE TIME AND GAIN

4.START CAMERA

5. SAVE IMAGE

6.STOP CAMERA

7. SAVE

ROKAM

QUALITY INSPECTION

SAVE

BACK

027-test1

BL32411AAK00001

CAMERA MANAGEMENT

Image Acquisition : 3.44 FPS

Image Processing : 0.18 ms

Last Modified on :

Properties

Acq Interface : HWV3pdParty

Acq Name : HuarayTechnolo

Serial Number : BL32411AAK0000

Manufacturer : Huaray Technol

ModelName : AB3A20CU000E

Settings

Exposure Time : 300000

Gain : 1

Rotation Angle : 0

Mirror Enable : Off

Trigger

Trigger Mode : Off

Auto Save Image : Off

Live Processing

Enable DM Code

Enable QR Code

START CAMERA

SAVE IMAGE

STOP CAMERA

Calibration

Focal Length (mm) : 12.0

Plate Thickness (mm) : 2.0

Plate Dimension (mm) : 80

Working Distance (mm) : 100

Pixel Size(um) : 3.75

Smoothness : 0.50

CALIBRATE

Error :

CAV1@4000x3000x3@3.44 FPS -

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## IMAGE MANAGEMENT

Select SKU

Add IMAGE

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QUALITY INSPECTION

BACK

Select SKU Number

ADD IMAGES

FILE NAME

REMOVE

IMAGE MANAGEMENT

## COMMUNICATIONS

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QUALITY INSPECTION

SAVEBACK

Last Modified on : 23-09-2024

SETTINGS

Data Location - Local/Network Folder

BROWSE FOLDERD:\RESULTS\_QI\

TCP Server

Enable TCP Server : ☐

Port Number : 9000

Enable STX ETX : ☐

FTP

Enable FTP : ☐

IP Address : 127.0.0.1

User Name : admin

Password : \*\*\*\*\*

OCR Model

Detection Model [DEFAULT MODEL LOADED]

Recognition Model [DEFAULT MODEL LOADED]

Update Model OCR MODEL AVAILABLE-Last Update:07-08-2024

Modbus TCP

Enable Modbus TCP : ☒

IP Address : 127.0.0.1

Port Number : 502

Start Address : 10

End Address : 110

Enable Comm : ☒

Auto Delete Results

Enable Auto Delete Results : ☐

Scanner

Enable Scanner : ☐

Webcam

Enable Webcam : ☐

Inspection

Expand Results Tree View : ☒

Save Original Image : ☐

Save Original Image Format : jpg

Display Cycle Time in [ms] : ☒

Enable Modbus TCP& Save

TCP/TCP SERVER & Save

## COMMUNICATIONS PART 01

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QUALITY INSPECTION

SAVEBACK

Modbus TCP Settings

Enable Modbus TCP : false

IP Address : 127.0.0.1

Port Number : 502

Start Address : 10

MODBUS TCP

CONNECTDISCONNECT

Status :

MODBUS TCP

Write Coils

TRUE

ADD

WRITE MULTIPLE COILS

COIL REMOVE

Read Coils

No. of Values : 20

READ MULTIPLE COILS

COILS

Write Registers

1000

ADD

WRITE MULTIPLE REGISTERS

REGISTER REMOVE

Read Registers

No. of Values : 20

READ MULTIPLE REGISTERS

REGISTERS

CONFIGURE MODBUS TCP REGISTERS (0-19)

COMMUNICATION0

SKUID1

SKUID\_FEEDBACK2

TRIGGER3

TRIGGER\_FEEDBACK4

CAMERA\_STATUS5

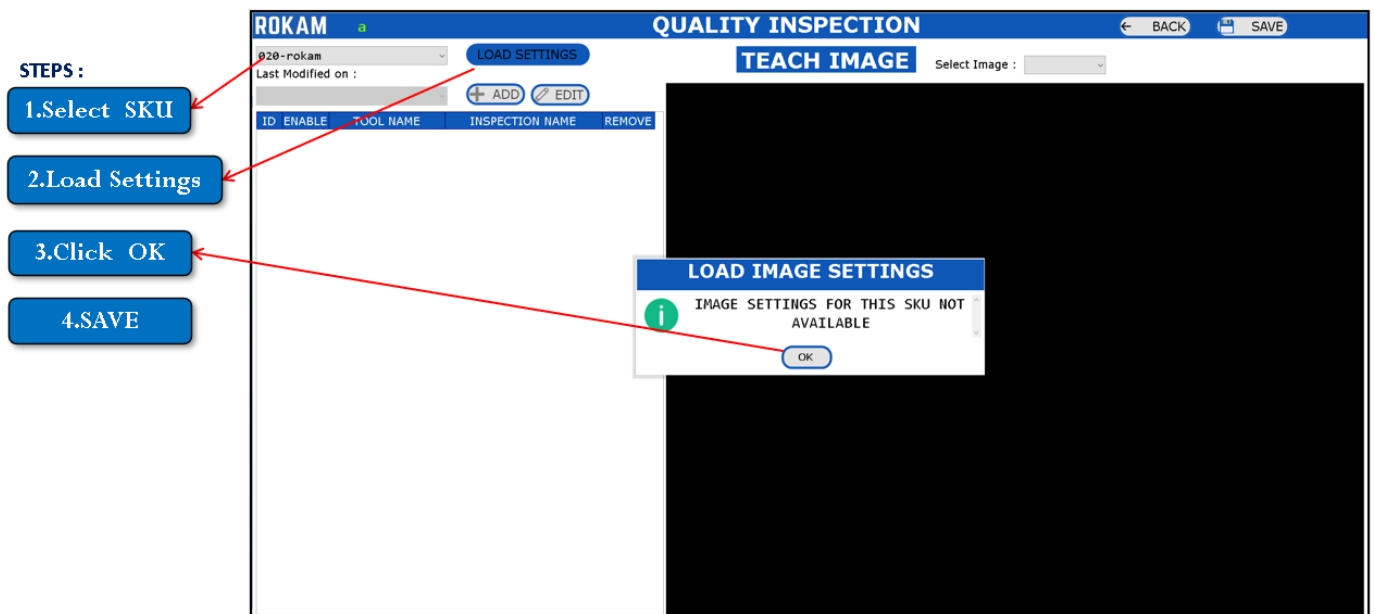
RESULT6

CONNECT

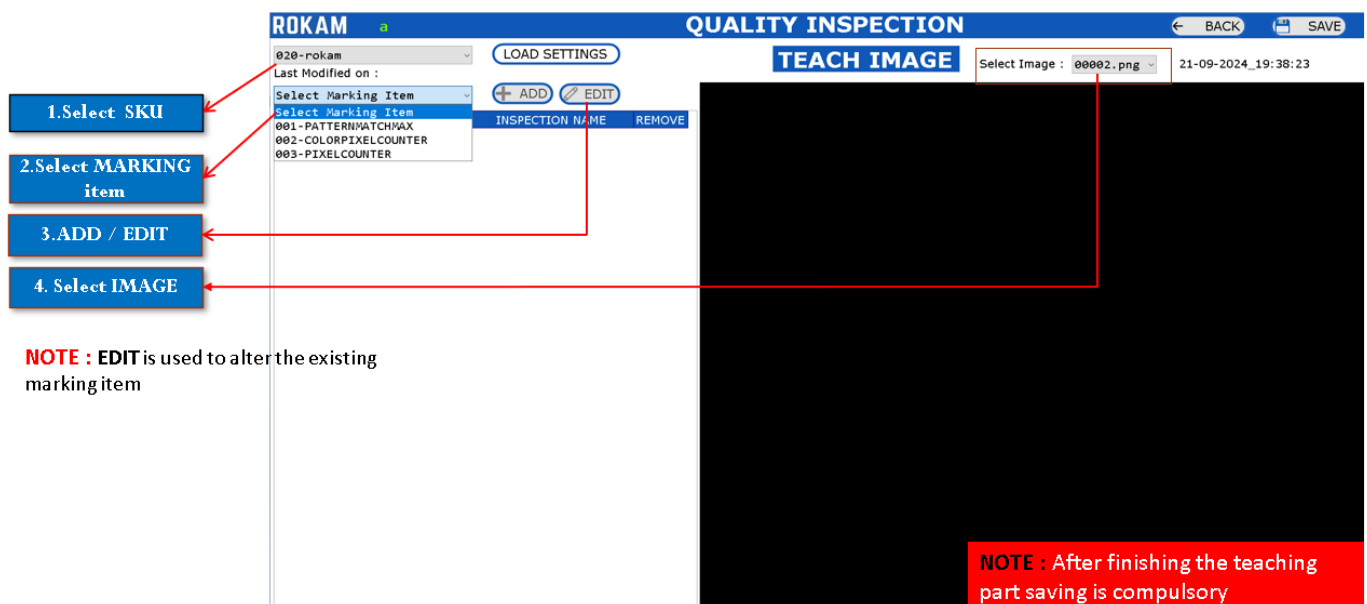
NOTE : Make sure to save the settings before going back.

## COMMUNICATIONS PART 02

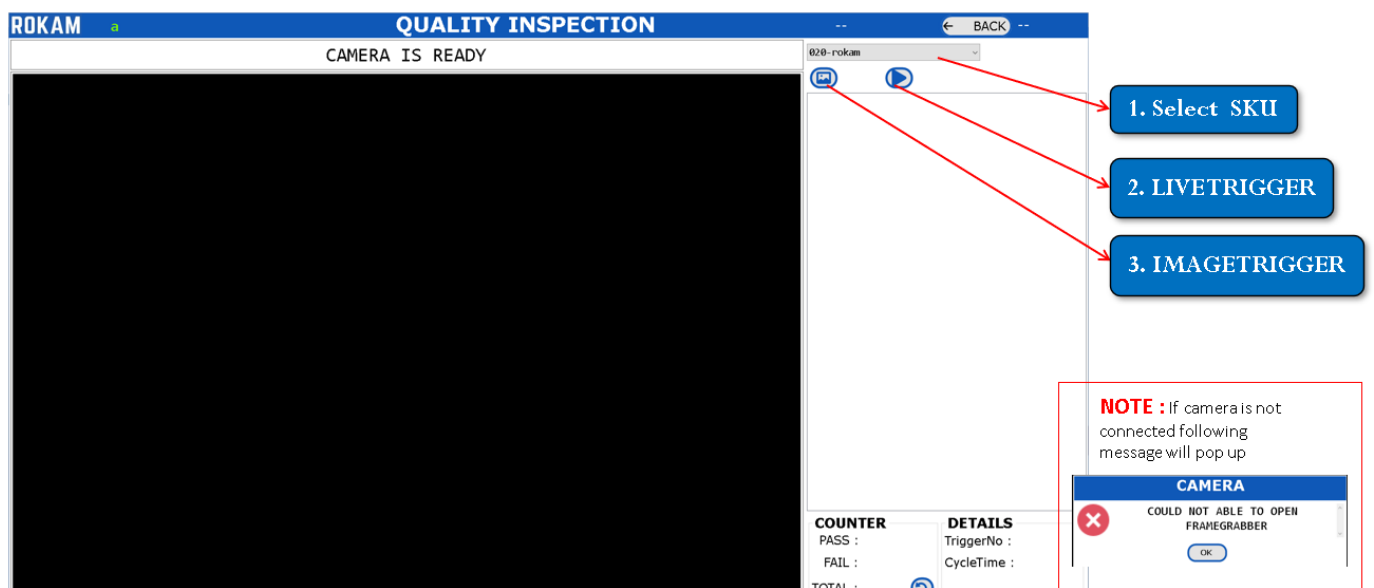




## TEACH IMAGE PART 01



## INSPECTION



RESULTS

1.Select SKU

2.Select DATE

3.Select GET RESULTS

4.Select TRIGGER

Only ADMIN

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QUALITY INSPECTION

← BACK

Select SKU Number

26 September 2024

GET RESULTS

CLEAR RESULTS

RESULTS

INSPECTIONS/G8

PDF

ID	TRIGGER	TIME	DELETE
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PARAMETER	VALUE
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REPORTS

1.Select SKU

2.Select DATES

3.Select USERS

4.Select PASS/FAIL

5.GET REPORTS

ROKAM

QUALITY INSPECTION

← BACK

All SKUs

All Users

GET REPORTS

REPORTS

26 September 2024 | 00:00:00

26 September 2024 | 23:59:59

PDF

ID	SKU	DATE	TIME	TRIGGER	USERNAME	RESULT
----	-----	------	------	---------	----------	--------

TOTAL

PASS

FAIL

GET IN PDF FORM

PDF

FAILED	COUNT
--------	-------

STATISTICS

VALUE

ALARMS

