



Standard Operating Procedure

PRINTSECURE SERIES

Contact Us:

Kevision Systems

Kevin Group, B-202, Safal Pegasus, Anandnagar, Prahladnagar,
Ahmedabad -380015, Gujarat, INDIA

*Stay Smart,
Stay Secure!*

Standard Operating Procedure for PrintSecure Series

Document No: TNT/PrintSecure/SOP/0001

Revision No: 0001

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1. Introduction

PrintSecure is a high-resolution color camera-based solution designed for the inspection of GS1 Data Matrix 2D codes, specifically in compliance with both regulatory and non-serialization data standards. This system boasts a crucial feature, as it has the capability to not only print batch data but also inspect it in accordance with government guidelines. The Print & Inspection machine assumes control of defect detection and rejection mechanisms, ensuring that batches conform to the specified standards.

2. Process Flow



Important Note: This SOP is reference purpose only, for more details of the each screen user can use the USER MANUAL.

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3. Procedure

3.1 Product Creation from KevSecure Server

- First user has to start **KevSecure Server** application.
- Here user has to **Log in** with valid USER ID and PASSWORD then main screen will appear as mention below.

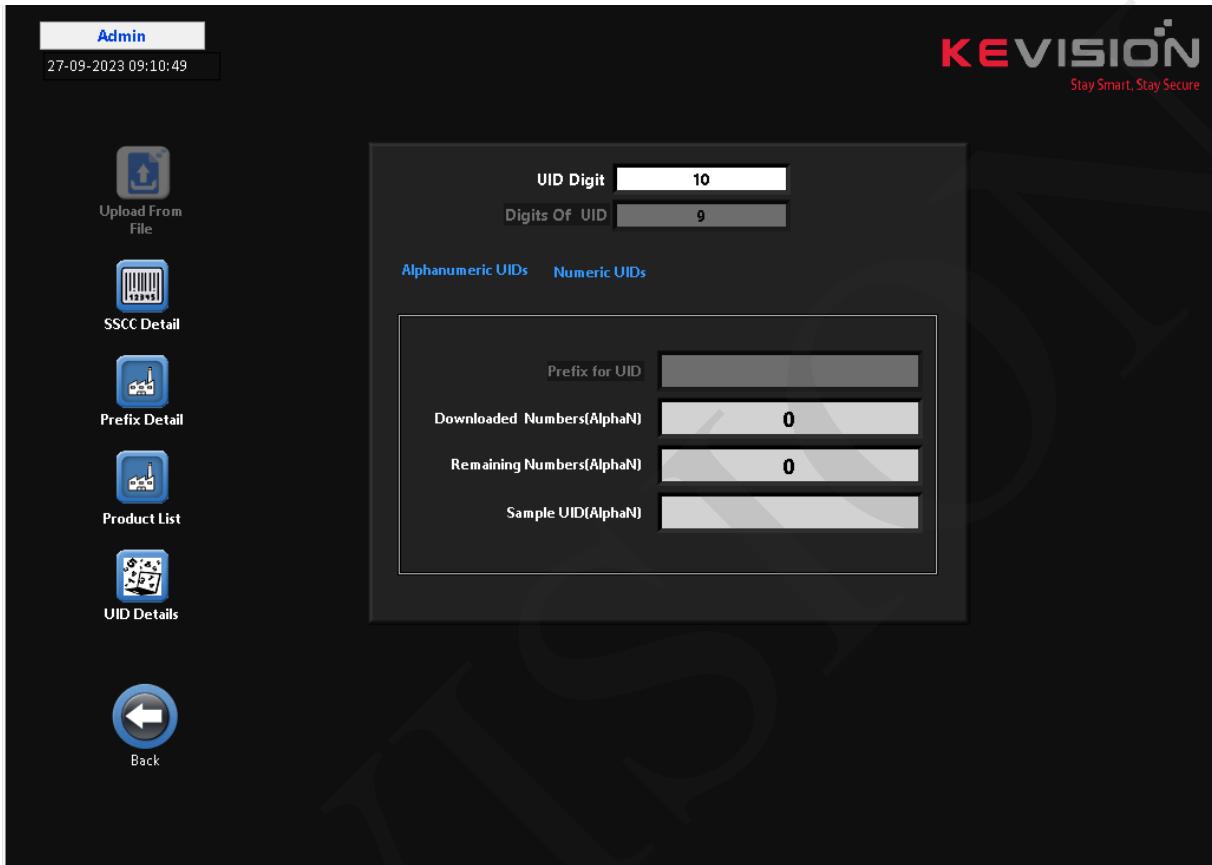


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- Click **Server Setting** in Main Menu Screen, then Server Setting screen will appear as mention below.
- In this screen user has to add Prefix details,SSCC details and Product list.



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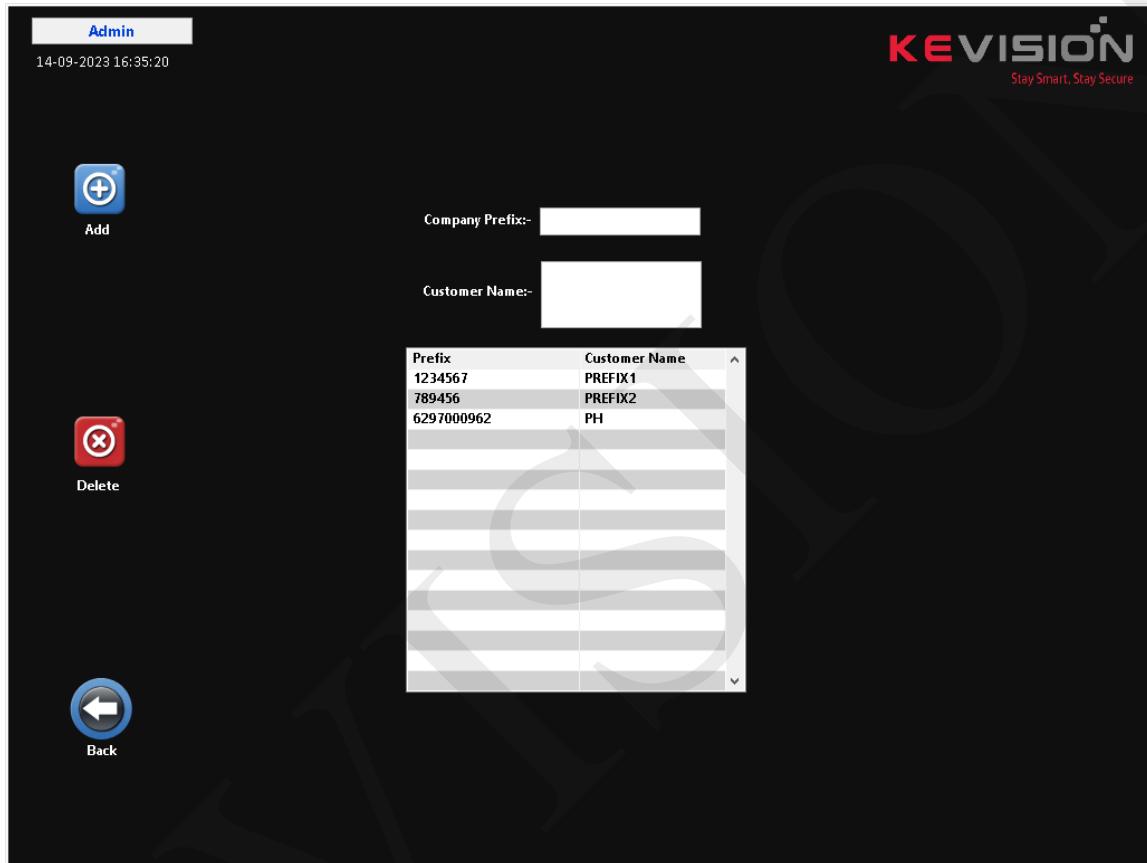
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PRODUCT CREATION

3.1.1 Prefix Detail

- Click on **Prefix Detail** button, then screen will appear as mention below.



- (1) Enter **Company Prefix** and **Customer Name**.
- (2) Click **Add** button to successfully add the Prefix detail.

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3.1.2 SSCC Detail

- Click **SSCC detail** button then screen will appear as mention below.

The screenshot shows the 'SSCC Range Details' screen. At the top left is the 'Admin' user icon and the date/time '27-09-2023 09:05:47'. On the right is the KEVISION logo with the tagline 'Stay Smart, Stay Secure'. A dropdown menu shows 'Company prefix' set to '123456'. The main area is a table titled 'SSCC Range Details' with columns: ID, Start, End, Used limit, Ex Digit, Status, Date/Time, Regulatory, Remaining Quantity, and Company. There are four rows of data:

ID	Start	End	Used limit	Ex Digit	Status	Date/Time	Regulatory	Remaining Quantity	Company
1	1	100	70	5	Open	25/09/2023 14:50:19	DGFT	30	123456
2	101	200	140	7	Open	25/09/2023 14:50:39	DGFT	60	123456
3	201	300	250	5	Open	25/09/2023 16:02:20	UZBEKISTAN	50	123456
4	301	400	327	7	Open	25/09/2023 16:02:39	UZBEKISTAN	73	123456

On the left side of the table are three buttons: 'Add' (with a plus sign icon), 'Update' (with a circular arrow icon), and 'Back' (with a left arrow icon). Below the table is a calculator-like input field for generating an SSCC number:

Ex Digit Prefix Number Digit SSCC
5 + 123456 + 1 + 7 = 512345600000000017

➤ Follow the below mention steps or sequences.

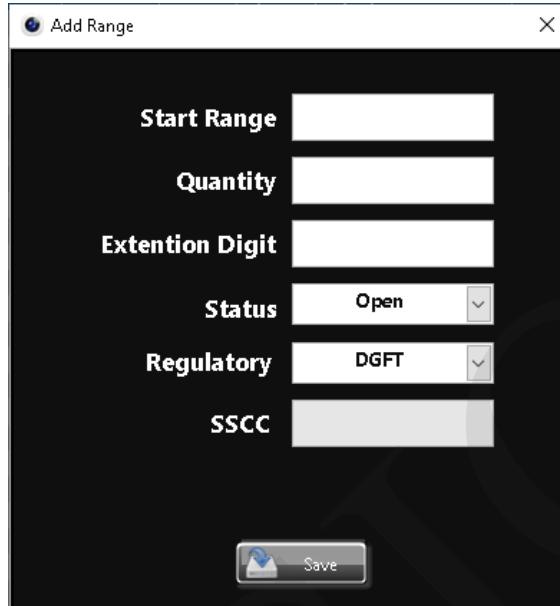
- (1) Select **Company Prefix**
- (2) Click **Add** Button

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- After click on Add Button in SSCC Details screen, then Add Range screen will appear as mention below.



- Follow the below mention steps or sequences
- (3) Here user has to enter the **Start Range, Quantity, Extension Digit**
- (4) Select **Status** and **Regulatory**
- (5) Click **Save** button to save settings

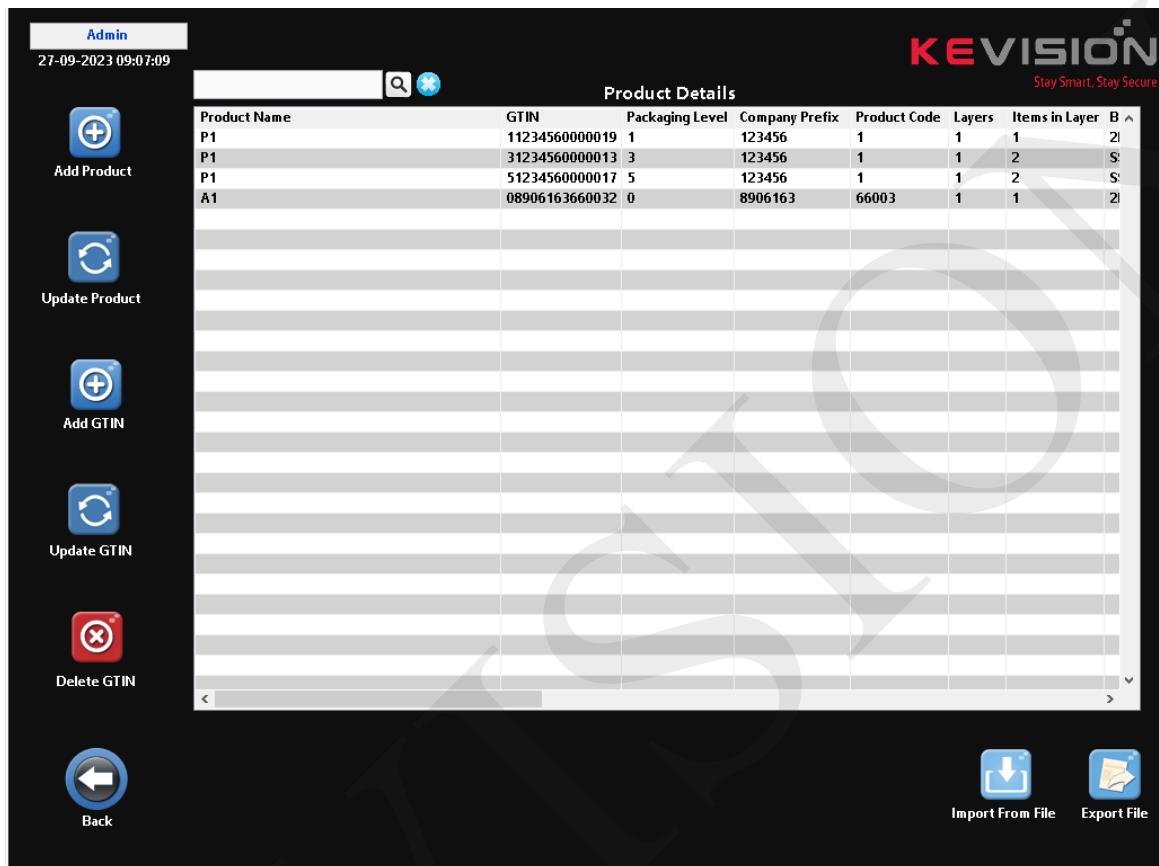
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3.1.3 Product List

- Click **Product List** button then screen will appear as mention below.



- In this screen, User has to click on **Add Product** button, then screen will appear as mention below.



- Follow the below mention steps or sequences
- (1) Enter **Product Name** and **Product Description**
- (2) Click **Save** button to add product

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3.1.4 Add GTIN

- Click **Add GTIN** in Product List Screen then screen will appear as mention below.

The screenshot displays the 'Add GTIN' interface. At the top, there's a header bar with 'Admin' and the date '27-09-2023 09:07:37'. To the right is the KEVISION logo with the tagline 'Stay Smart, Stay Secure'. Below the header is a search bar with a magnifying glass icon and a clear button. A dropdown menu labeled 'Product List' is set to 'P1'. Underneath are fields for 'Packaging Level' (0), 'Company Prefix' (123456), 'Product Code' (1), and 'GTIN' (0123456000012). The main area features a large grid of parameters:

Parameter	Value
Server Type	KevSecure
Batch Type	Serialization
Layers	1
Items in Layer	1
Barcode Type	2D
UID Type	AlphaNumeric UIDs
UID Length	10
SSCC Prefix	123456
Filter Value	5
HRF1AI	None
HRF2AI	None
HRF3AI	None
HRF4AI	None
HRF5AI	None

At the bottom left is a 'Back' button with a circular arrow icon, and at the bottom right is a 'Save' button with a floppy disk icon.

➤ Follow the below mention steps or sequences

- In this screen, User has to select the Product Name from the **Product List**
- Select **Packaging Level**
- Select **Company Prefix**
- Enter **Product Code**
- View the auto calculate **GTIN**
- Now, select or enter the remaining details, Server Type, Batch Type, Layers etc.
- Click on **Save** button for successfully save the details

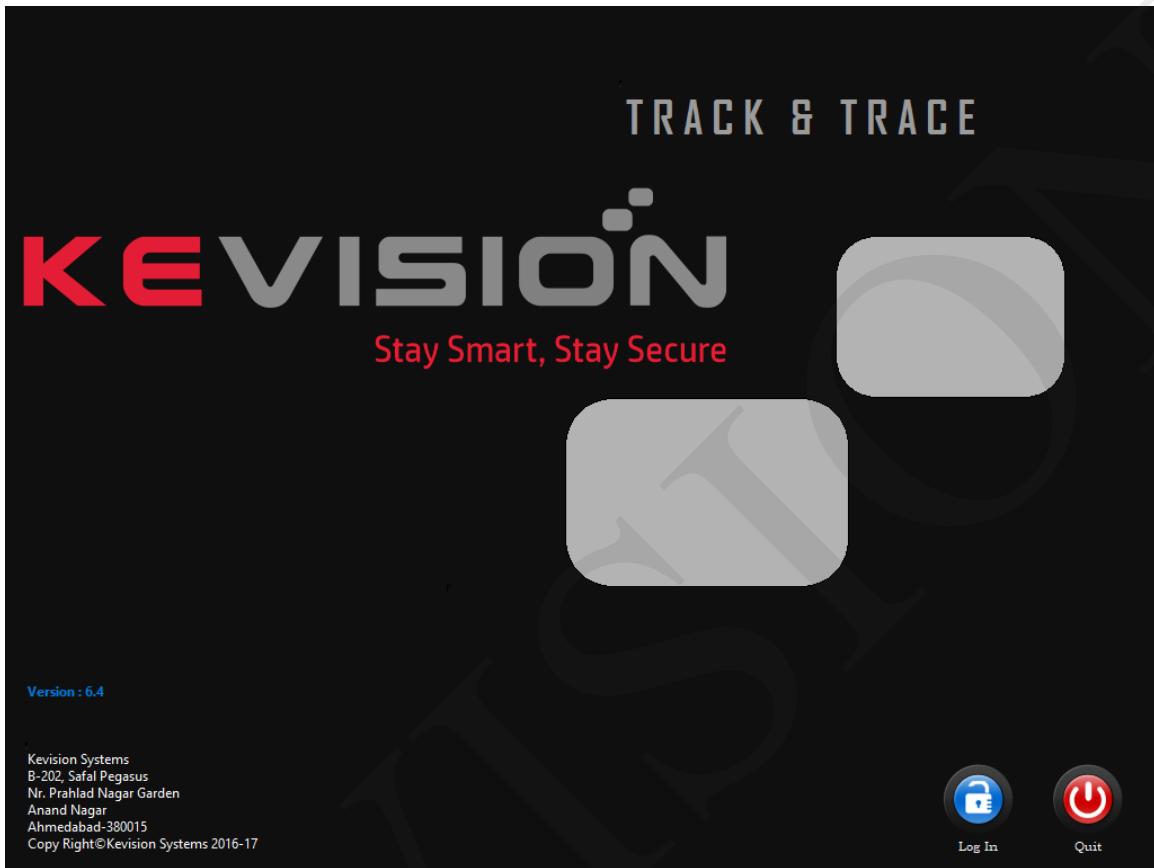
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3.2 Login with Application (Client Station-PrintSecure)

- Main Login screen will appear as mention below;



- Here user has to Login the system with the valid **USER ID** and **PASSWORD**.

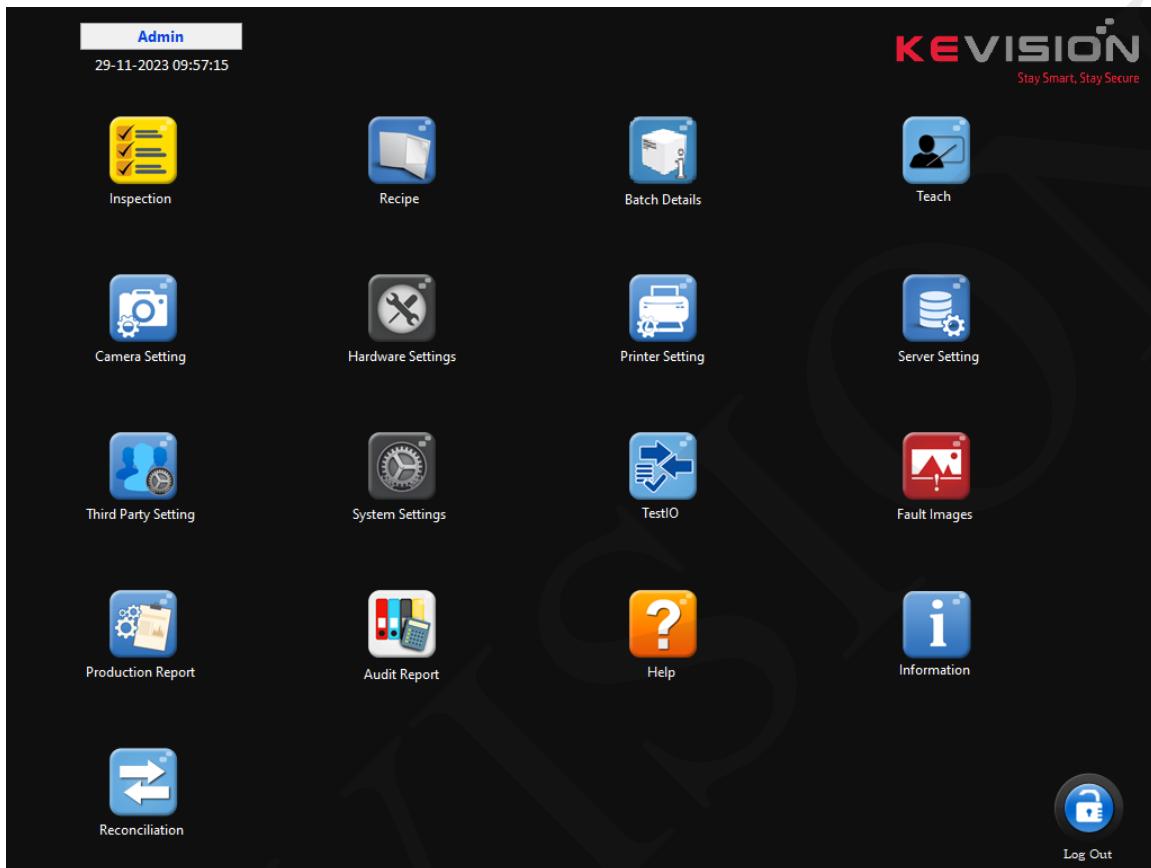
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3.3 Recipe Creation

- After successfully Login, Main Menu screen will appear as mention below.



- In main menu screen, User has to click on **Recipe** Button for Recipe Creation.

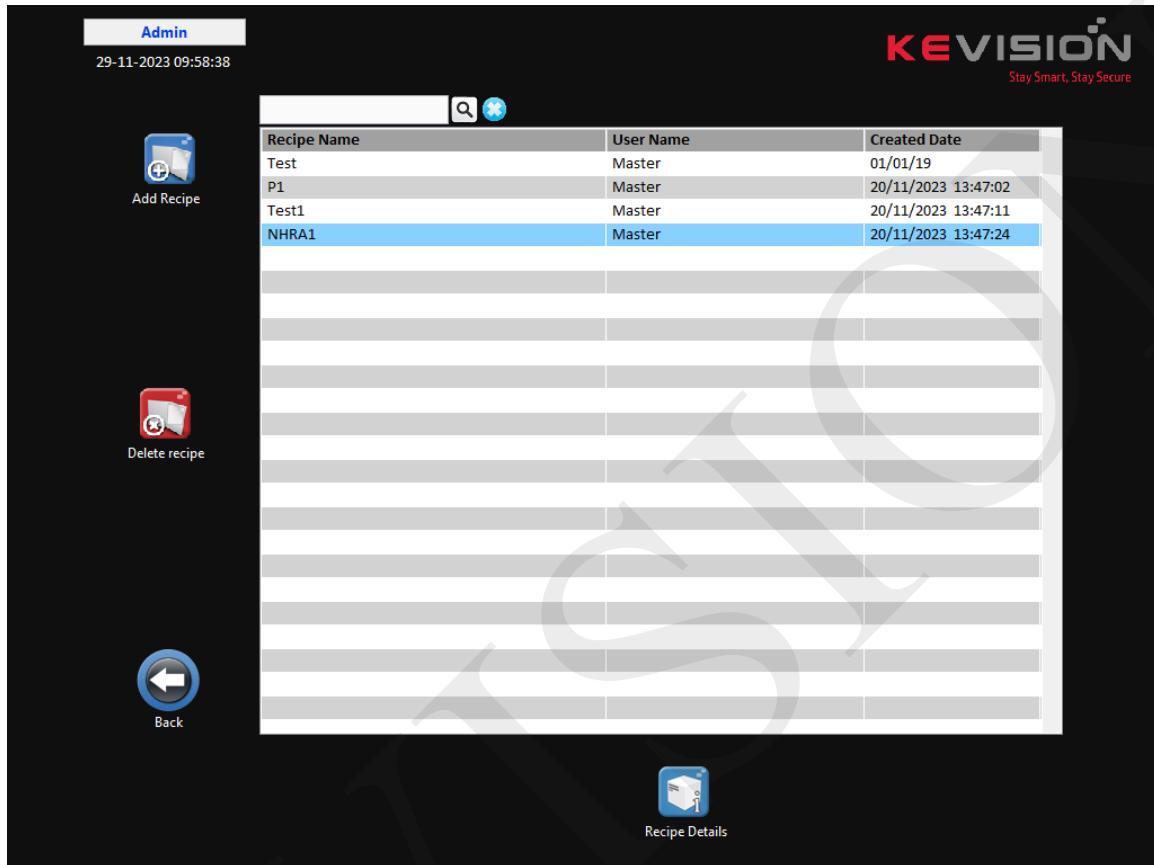
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RECIPE CREATION

- User has to click **Recipe** button, then Recipe Screen will appear as mention below.

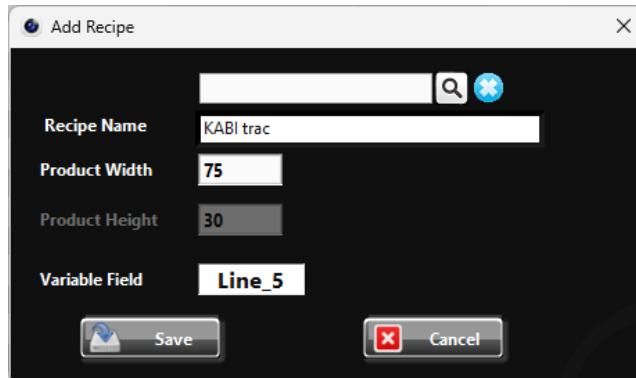


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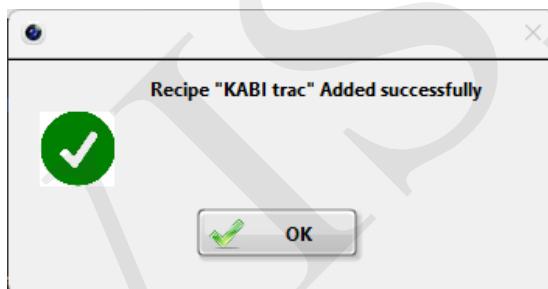
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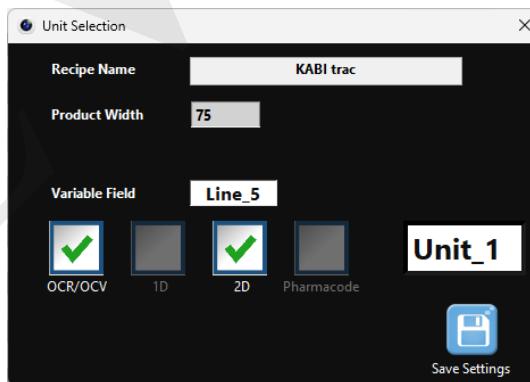
- Click **Add Recipe** button then Add Recipe screen will appear as mention below.



- Follow the below mention steps or sequences
 - Select **Recipe Name** through dropdown selection
 - Enter **Product Width**
 - Select **Variable Field**
 - After enter or selecting the required details then click on **Save** button
 - Once successfully saved the Recipe screen will show confirmation notification message



- Click **Back** button from the Recipe screen, Unit Selection window will appear as mention below.



- Follow the below mention steps or sequences
 - User has to select OCR/OCV, 1D, 2D and/or Pharmacode *(as per the requirement)*
 - After click on **Save Settings** button

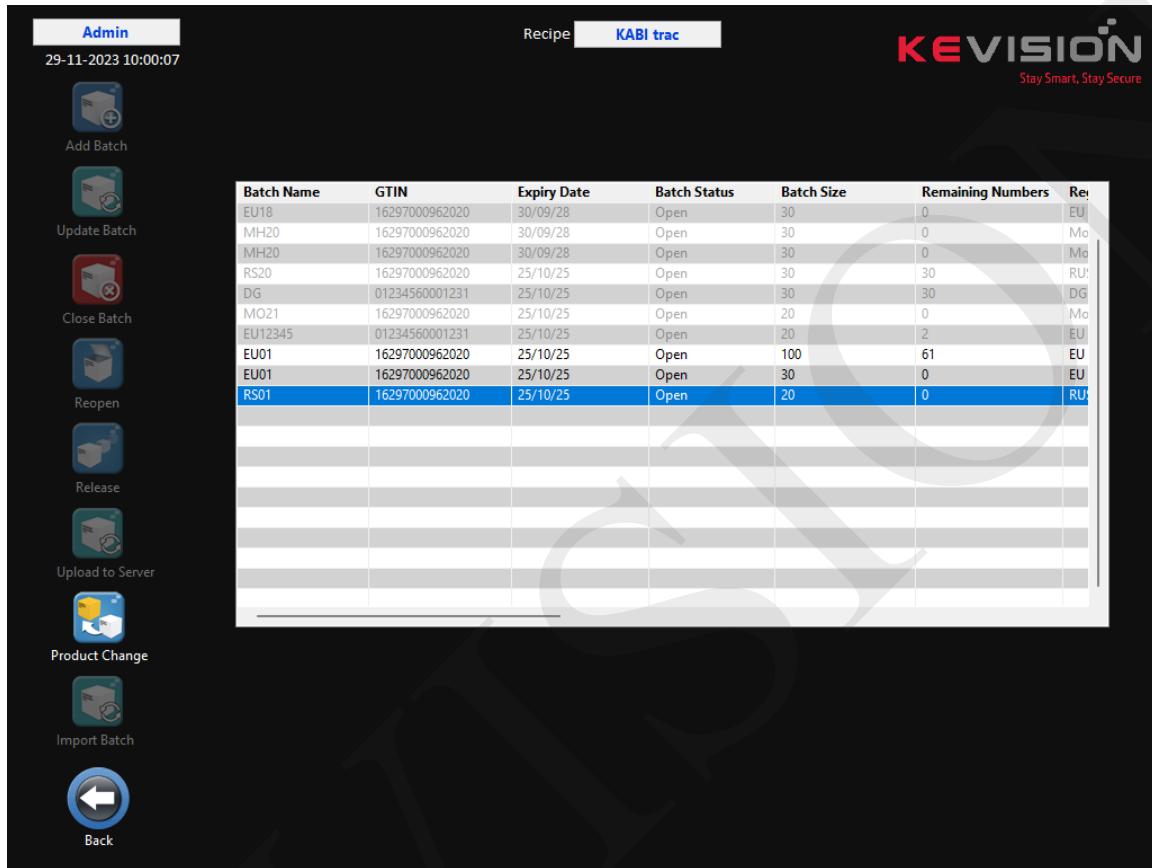
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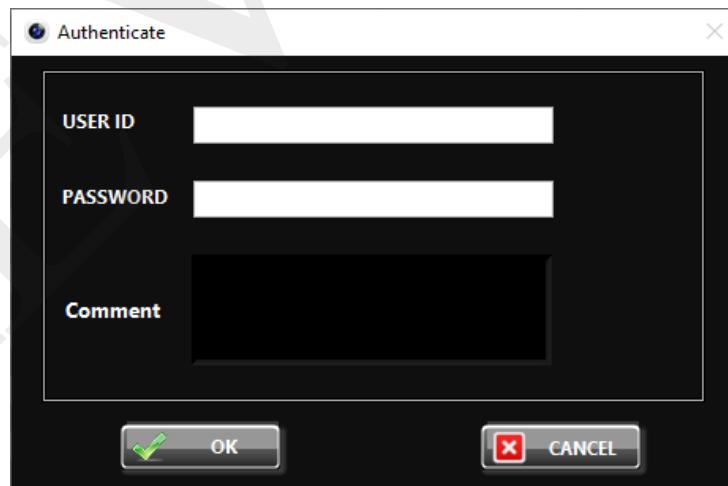
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3.4 Add Batch

- In main menu screen, User has to click on **Batch Details** Button, then Batch Details screen will appear as mention below.



- Click **Product Change** button, then Authentication window will appear.



- Here user has to enter the valid **USER ID** and **PASSWORD** then click on **OK** button.

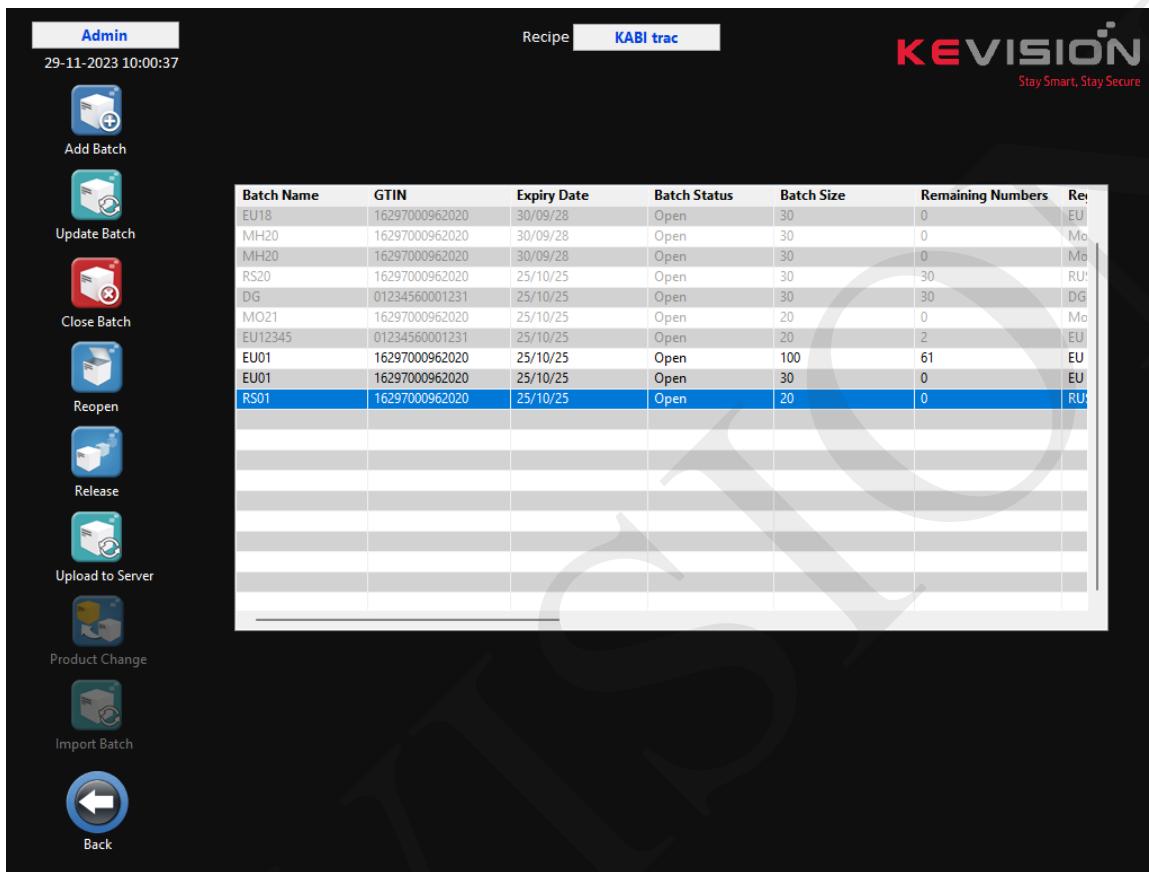
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ADD BATCH

- After successfully authentication all the disable functions are enabled.



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- Click on **Add Batch** button, then Add batch screen will appear as mention below.

The screenshot shows the 'Add Batch' interface. On the left, there's a sidebar with various configuration options:

- Product Type:** Test1
- GTIN:** 56297000962028
- Batch Type:** ParentChild Online
- Server:** KevSecure
- System IP:** 192.168.1.247
- System:** P&I
- Layers:** 1
- Items in layers:** 1
- Expiry(DD/MM/YY):** 25/10/25
- Inspect:**
- Barcode:** 2D
- Layers View:** 2X1
- UID Type:** AlphaNumeric UIDs
- UID Length:** 10

On the right, there's a table titled 'System_IP' with columns: System, Layers, Items_in_Layers, Product_Code, Inspect, and Customize. It contains three rows:

System_IP	System	Layers	Items_in_Layers	Product_Code	Inspect	Customize
192.168.1.247	P&I	1	2	02	Y	N
192.168.1.247	MCAS	1	2	02	Y	N
192.168.1.247	LUGS	1	2	02	Y	N

Below the table, there's a 'Hierarchy' section with three boxes representing levels of the batch structure:

- Level 1: System: P&I Level 1
- Level 2: System: MCAS Level 3
- Level 3: System: LUGS Level 5

At the bottom right are buttons for Save (with a downward arrow icon), Abort, and Close (with a circle and X icon).

- In this screen, user can view the all the Product or batch relavent information.

➤ Follow the below mention steps or sequences

(1) Click **Save** button to save the settings

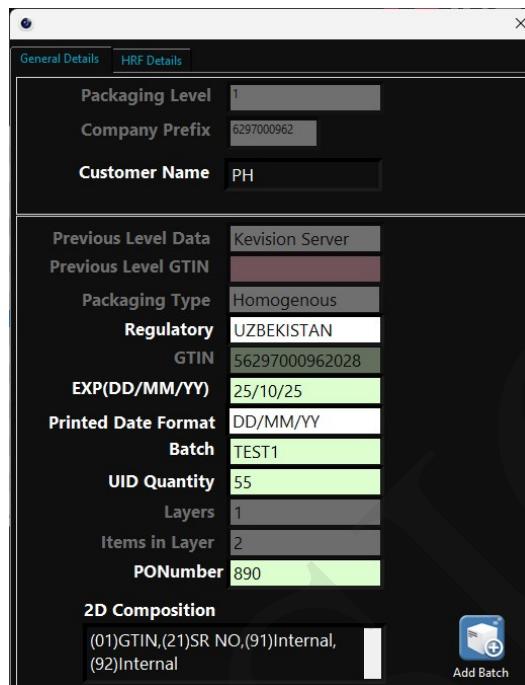
Note: User can view the same details which is configure in server

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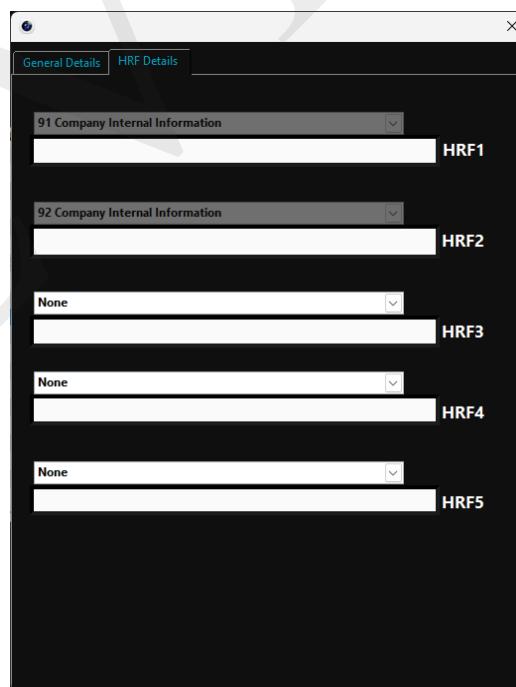
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- After click on **Save** button from Add Batch screen general details window will appear.



- Follow the below mention steps or sequences
- (2) Here, User has to select the **Regulatory** and **Expiry Date Format**
- (3) Enter the **Batch** and **UID Quantity**
- (4) Enter the **PONumber** (*if require*)
- (5) Now, click on **HRF Details** button, HRF Details screen will appear as mention below



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➤ Follow the below mention steps or sequences

(6) In HRF details screen, User has to add HRF details (*if required*)

(7) Further go on **General Details** Window, then user has to click on **Add Batch** button

(8) Now, Printing Details screen will appear

Printing Details		
GTIN	51234560012126	
Batch	Test0510	
Expiry Date	30/10/23	
HRF1	03/10/23 (11 Production Date)	
HRF2	https://kevsecure.com/DPSMD/interface/01/51234560012126/10/ Test0510 (None)	
HRF3	This_is_HRF1 (None)	
HRF4	This_is_HRF2 (None)	
HRF5	This_is_HRF3 (None)	
Other Details		
Quantity	200	
Regulatory	NA	
Status	Open	
Packaging Level	0	
Company Prefix		
Batch Type	Non-Serialization	
 Print	 Cancel	 OK

(9) Help of Print option, User can Printing the details

(10) Click on **OK** button for adding the batch

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3.5 Teaching

- In main menu screen, User has to click on **Teach** Button, then Teach screen will appear.



- Follow the below mention steps or sequences

(1) Select a **Manual Mode.**

(2) Click on **Grab** button then automatically image will capture.

(3) Help of the (Previous Image or Next Image) button, user can change the image.

(4) Click on **Next** button for the further action.

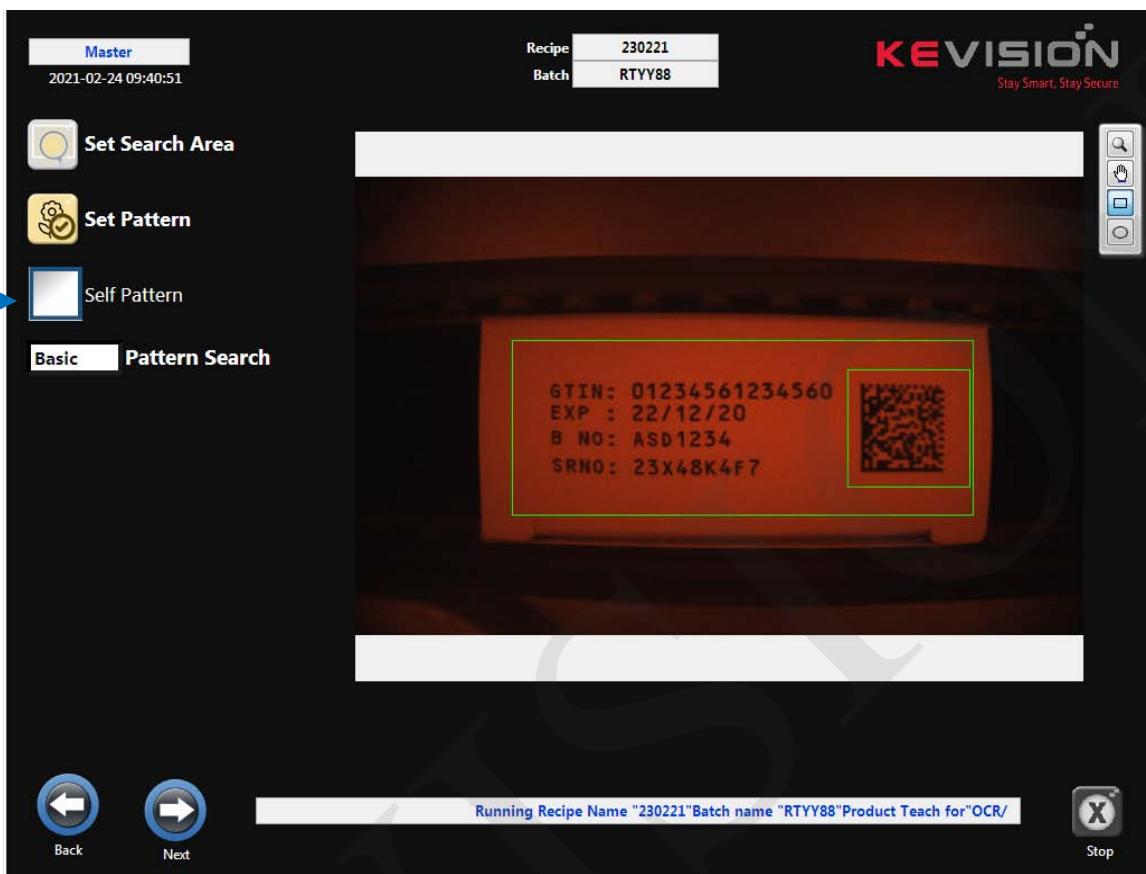
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- After click on Next button, Set Search Area and Pattern Area screen will appear.

(5) →



- Follow the below mention steps or sequences

(5) Untick the **Self Pattern**.

(6) Draw a Search Area within the Image and click on **Set Search Area** button.

(7) Draw a Set Pattern within the Search Area and click on **Set Pattern** button.

(8) Click on **Next** button for the further action.

Note: User can draw a Search Area and Pattern Area as per their requirement.

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- After click on Next button, Teach (OCR/OCV) screen will appear.

Teach window Screen



- Follow the below mention steps or sequences

(9) User can select Auto Teach, Line Check, OCR and OCV (As per the requirement).

- Now, User has to draw a Line's one by one which are required for inspection.

(10) Click on **Train** button

(11) Click on **Next** button for the further action.

Note: For more details, user can refer the User Manual.

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- Here, User can change the some important parameters; like Teach, Threshold, Filter and Read Setting.
- **Thereshold window Screen**



- User can Select below mentioned details in Threshold Window.
 - Method - (Fixed Range, Uniform, Linear, Non-Linear, Local and Color)
 - Shade Selection - (Light on Dark and Dark on Light)
 - Threshold Min-Threshold Max
 - Read Text

Note: For more details, user can refer the User Manual.

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- Filter window Screen



- User can Select or change the below mentioned details in Filter Window.
 - Barcode Filter
 - Character Width Min
 - Character Width Max
 - Character Height Min
 - Character Height Max
 - Character Area Min
 - Character Area Max

Note: For more details, user can refer the User Manual.

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- Read Setting window Screen



- User can Select or change the below mentioned details in Read Setting Window.
 - Matching Score

Note: For more details, user can refer the User Manual.

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- Click on 2D button, Teach (2D) screen will appear.



➤ Follow the below mention steps or sequences

(12) User can select 2D Related parameters like; Threshold Method, Cell Sample Size, Code Type etc.

- Now, User has to draw a 2D Code area which is required for inspection.

(13) Click on **Train** button.

(14) Click on **Next** button for the further action.

Note: For more details, user can refer the User Manual.

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- After click on **Next** button then Simulate screen will appear.



- Follow the below mention steps or sequences

(15) Click on **Simulate** button.

(16) Click on **Next** button for save the recipe.

- Once recipe is successfully teach. Then confirmation popup message will appear.

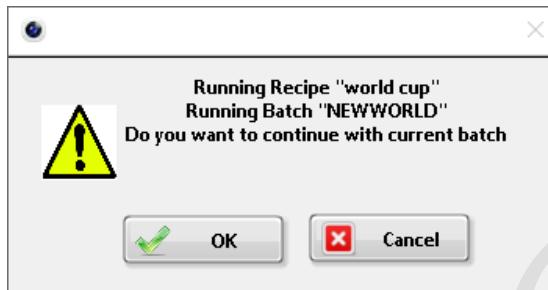
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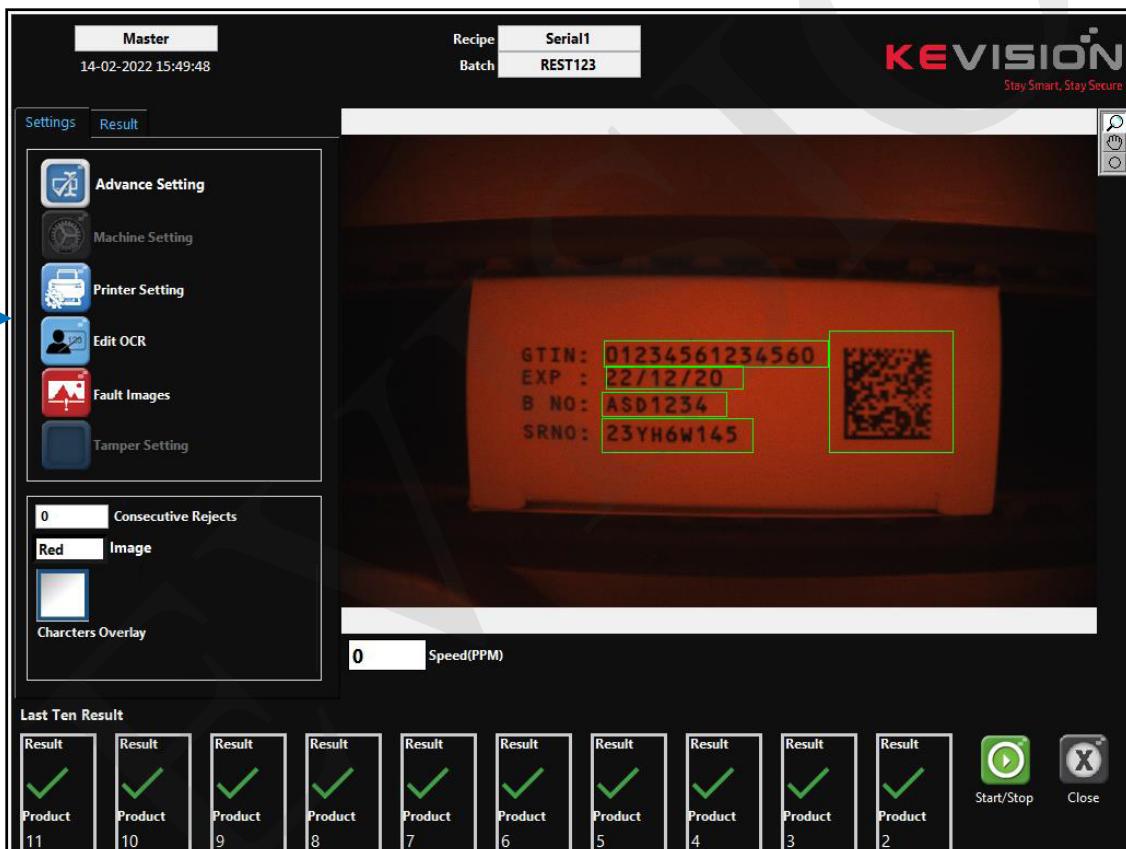
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3.6 Inspection

- In main menu screen, User has to click on **Inspection** Button, then Inspection screen will appear.
- Initial starting of the inspection, confirmation notification message will appear as mention below.



- Click on **OK** button, Inspection screen will appear as mention below.



- Follow the below mention steps or sequences



(1) Click on **Start/Stop** button for start the inspection.

(2) User can change the Inspection related settings or parameters like; Advance Setting, Printer Setting, Edit OCR, Fault Images etc.

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- Click on **Result** button in Inspection screen, below updated result screen will appear as mention below.



- In this screen, user can view the below details.

- Batch Type
- Pass
- Fail
- Total
- Batch Pass
- Batch Fail
- Batch Total
- Graph

➤ Follow the below mention steps or sequences

(3) Click on **Start/Stop** button for stop the inspection.

(4) Click on **Close** button for Close the inspection window.

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3.7 Production Report

- In main menu screen, User has to click on **Production Report** Button, then Production Report screen will appear.
- Production Report For Serialization and Parent Child:-**

Serial No	Status	Date
0002134N2W2	Generated	06-10-2023 14:01:39
0003VHHJIRAJ	Generated	06-10-2023 14:01:39
000CQ62JR3RX	Generated	06-10-2023 14:01:39
000DKPR6M2IP	Generated	06-10-2023 14:01:39
000IS7UV9WEF	Generated	06-10-2023 14:01:39
000IY00JMWMH	Generated	06-10-2023 14:01:39
000JLP1E23SG	Generated	06-10-2023 14:01:39
000Q7FIKX9TG	Generated	06-10-2023 14:01:39
000SOGPNKS6H	Generated	06-10-2023 14:01:39
000TIZV38BP2	Generated	06-10-2023 14:01:39
000UBKPGLKSN	Generated	06-10-2023 14:01:39
000WIG6M366G	Generated	06-10-2023 14:01:39
000X0QFJOYG7	Generated	06-10-2023 14:01:39
000X36K63WHT	Generated	06-10-2023 14:01:39
000Z2DHTBZKZ	Generated	06-10-2023 14:01:39
000Z4K6AYFEM	Generated	06-10-2023 14:01:39
0010654DTGH5	Generated	06-10-2023 14:01:39
0012LFYX07P6	Generated	06-10-2023 14:01:39
00145GYYHFW3	Generated	06-10-2023 14:01:39
0014H05CM5H1	Generated	06-10-2023 14:01:39
00171AHCLZC	Generated	06-10-2023 14:01:39
0017MAXRASWF	Generated	06-10-2023 14:01:39
0018R8A20N80	Generated	06-10-2023 14:01:39
001D7C6V40B5	Generated	06-10-2023 14:01:39

(1) User can generate the report by selecting Serialization or Parent Child.

(2) Generating the Reconciliation Report

Note: For more details, user can refer the User Manual.