

# **Operating Manual**

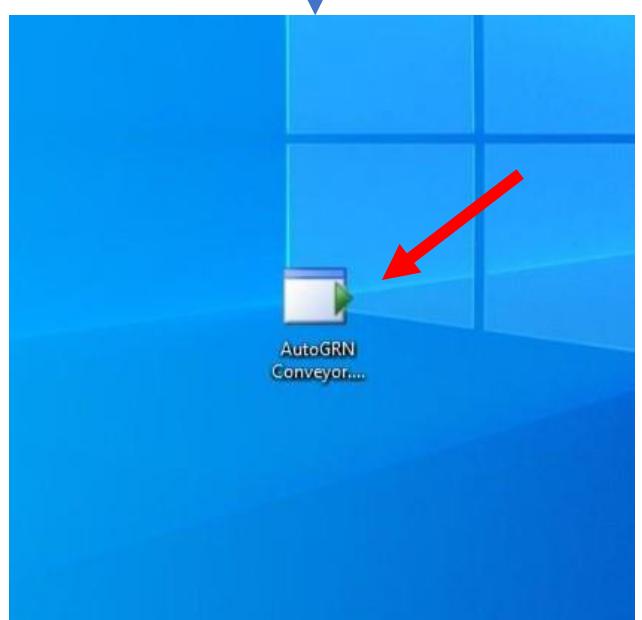
NATIONGATE SOLUTION (M) SDN BHD  
AutoGRN Program

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## Start Program

1. On all the power.
2. Turn on the CPU.
3. After Desktop is loaded, double Click “AutoGRN Conveyor”.
4. The program is opened.



## AutoGRN Process

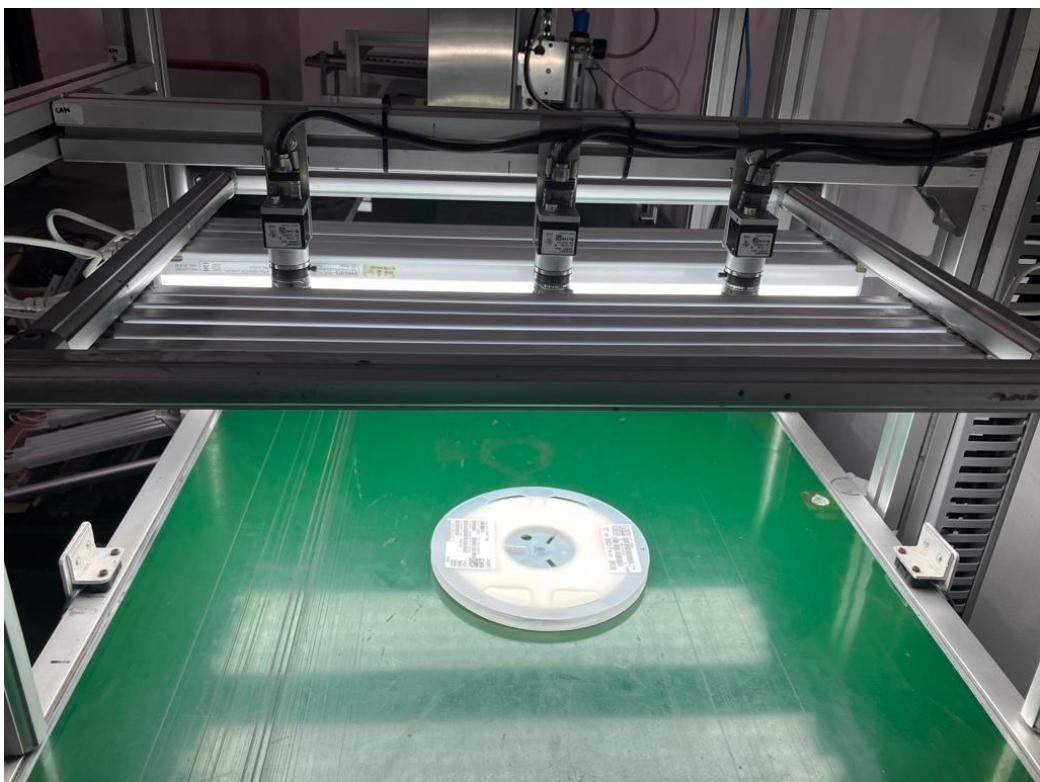
1. Make Sure CMESDLL is connected. Press “Connect” button and try to connect if it is not connected.
2. Choose the vendor that was registered.
3. Press “Start” Button.



4. Place the reel on conveyor belt according to the markings.



5. Camera will capture and decode reel information when the reel passes through.

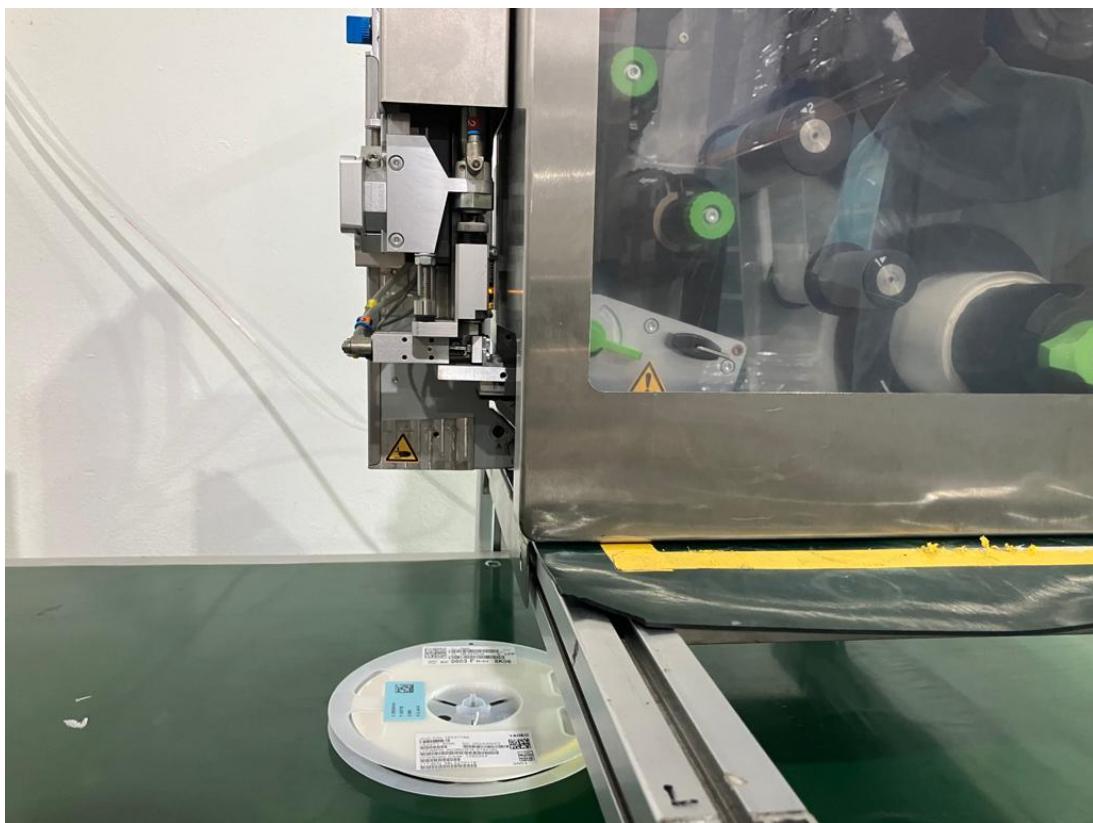


6. The decoded reel information is displayed on the program.
7. Reel information is sent to the ERP system, and ERP return is displayed.
8. A print job that consists of ERP return information is sent to printer, with the sending status displayed.

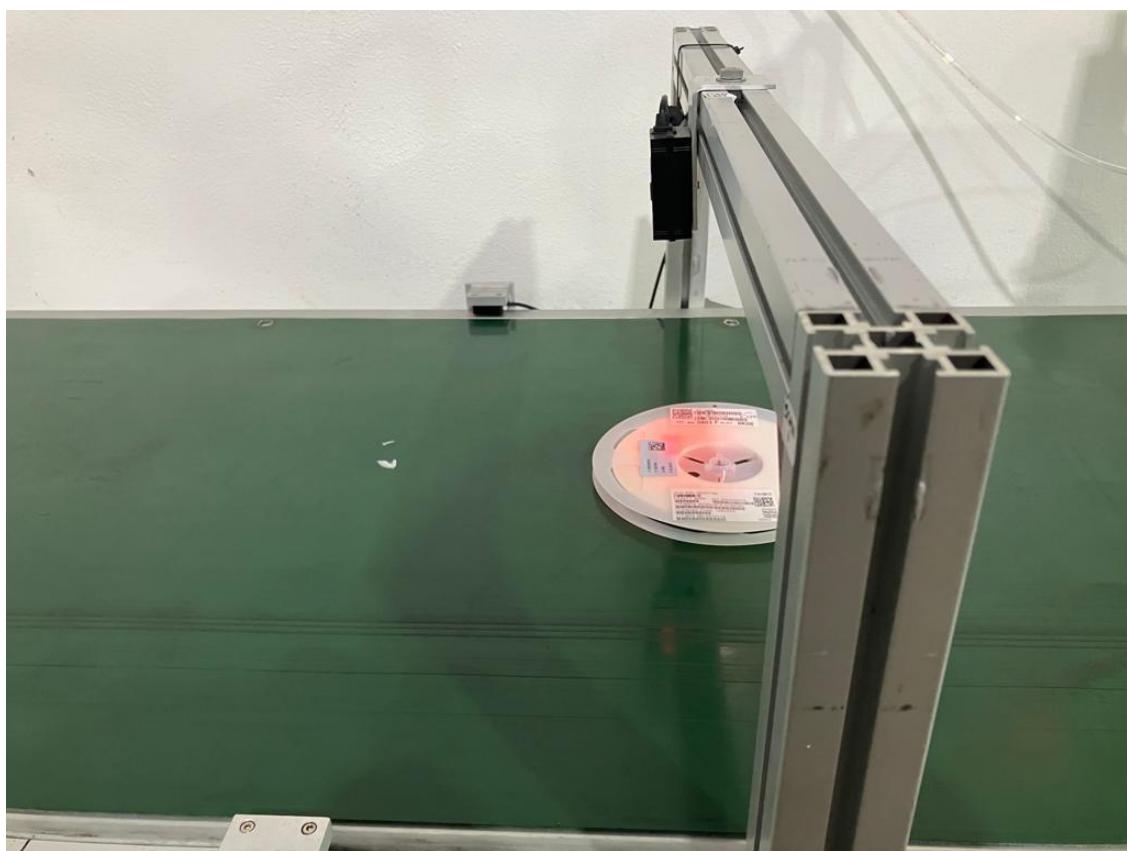


[11:41 AM] Sent Print Job: 230523001930,16237789,5000,DL-B4-33  
[11:41 AM] ERP Return:230523001930,16237789,5000,DL-B4-33  
[11:41 AM] VC:1082254 PN:16237789, Qty:5000, MPN:AC0603FR-078K06L, DateCode: 20230503, PO No.: , Lot No.: ,

9. When reel arrives printer, printer will stamp the sticker with information containing ERP Return value.



10. Barcode Scanner at the end on conveyor will verify the data matrix on the stamped sticker.

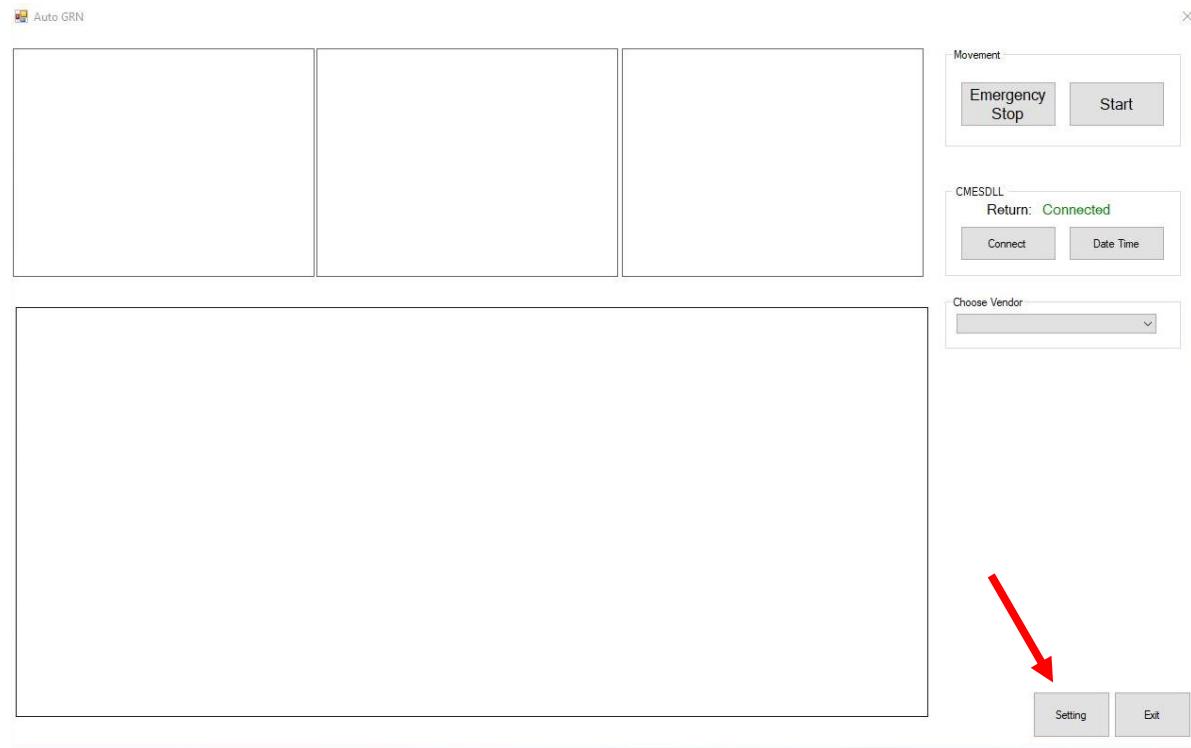


11. Program will display the verified data matrix on screen.



## Register New Vendor

1. Click “Settings” on the home page.



2. In setting page, click “Register”.

The screenshot shows the "Register" page. It has a header "Required Field". Below it is a form field labeled "Vendor Name:" with a dropdown menu. To the left of the dropdown is a "Register" button, and to its right is an "Edit" button. A red arrow points to the "Vendor Name:" field.

3. The Registration Form is shown:

Vendor Name :

Spliter :

Capture Time (ms) :

Print Time (ms) :

Code Type:

**Vendor Details**

	Position	Starting	Ending
Part No :	<input type="text"/>	<input type="text"/>	<input type="text"/>
Quantity :	<input type="text"/>	<input type="text"/>	<input type="text"/>
Manufacturer :	<input type="text"/>	<input type="text"/>	<input type="text"/>
Vendor Code:	<input type="text"/>	<input type="text"/>	<input type="text"/>
DateCode :	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lot Code :	<input type="text"/>	<input type="text"/>	<input type="text"/>
PO No :	<input type="text"/>	<input type="text"/>	<input type="text"/>
Packing No:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Expire Date:	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please Scan QR/Datamatrix:

Manual Entry

Vendor Code :

Date Code :

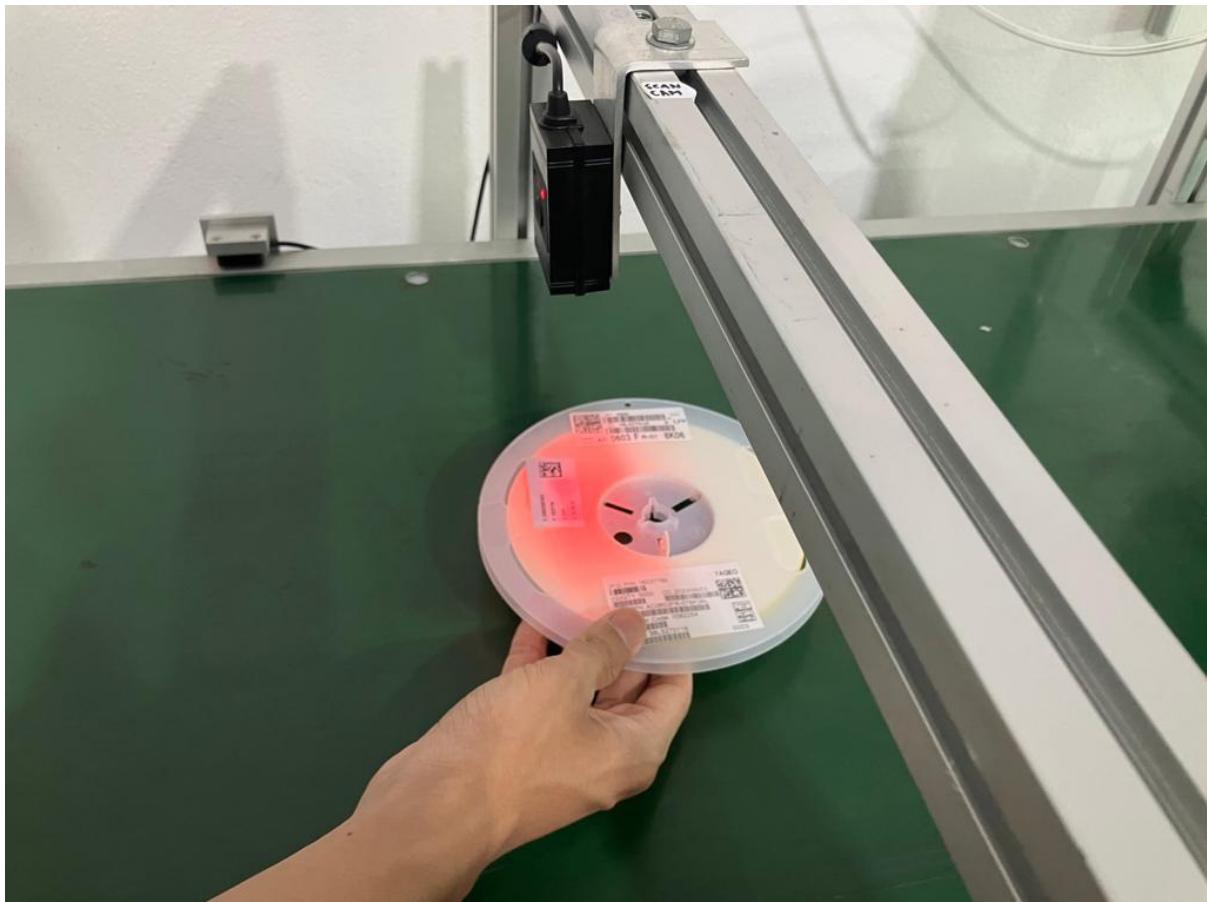
Lot Code :

PO No :

Packing No :

Expire Date :

4. Scan the reel's Datamatrix or QR using the barcode scanner.



5. Vendor Name – Fill in suitable vendor name. Vendor name cannot be duplicate.
6. Splitter – Splitter is auto detected after scanning QR/Datamatrix. **Do not** modify the field, if info is shown on the right successfully.
7. Capture Time – The delay time for camera to capture image.
8. Print Time – The delay time for printer to stamp sticker.
9. Code Type – Choose between Datamatrix and QR according to need.
10. Vendor Details
  - a. Fill in “Position”, “Starting” and “Ending” accordingly, with the visualized information at the right box.
  - b. If the information does not exist, choose N/A, and fill in the information in “Manual Entry”.
  - c. Part Number, Quantity, Manufacturer and Vendor Code are mandatory fields.
11. Click “Save”.

The screenshot shows a Windows application window titled "Form". It contains several input fields and a central panel for scanning QR/Datamatrix codes.

**Left Panel (Vendor Details):**

- Vendor Name: SAMPLE SMALL
- Splitter:
- Capture Time (ms): 800
- Print Time (ms): 700
- Code Type: Datamatrix

**Middle Panel (Please Scan QR/Datamatrix):**

Scanned QR/Datamatrix code output:

```

1: D>06
2: P28024551
3: 19SGVY7WN+D971305001
4: Q4000
5: 1TWFPC140478
6: 1P934663686135
7: 2P
8: 14D20250310
9: 2E1
10: Epbfree
11: 3Z
  
```

**Right Panel (Manual Entry):**

Vendor Code:	D0001
Date Code:	20230101
Lot Code:	
PO No:	PO0001
Packing No:	P0001
Expire Date:	

**Buttons:**

- Save
- Cancel

## Edit Existing Vendor

1. Click "Settings" on the home page.



2. In setting page, choose vendor and click "Edit".

**Required Field**

Vendor Name:	D0334 SMALL	<input type="button" value=""/>
<input type="button" value="Register"/>	<input type="button" value="Edit"/>	

3. The Edit Form is shown. Change the information according to needs. Click “Save”.
- Vendor Name – Fill in suitable vendor name. Vendor name cannot be duplicate.
  - Splitter – Splitter is auto detected after scanning QR/Datamatrix. **Do not** modify the field, if info is shown on the right successfully.
  - Capture Time – The delay time for camera to capture image.
  - Print Time – The delay time for printer to stamp sticker.
  - Code Type – Choose between Datamatrix and QR according to need.
  - Vendor Details
    - Fill in “Position”, “Starting” and “Ending” accordingly, with the visualized information at the right box.
    - If the information does not exist, choose N/A, and fill in the information in “Manual Entry”.
    - Part Number, Quantity, Manufacturer and Vendor Code are mandatory fields.

**General**

Vendor Name : SAMPLE SMALL  
Splitter :  
Capture Time (ms) : 800  
Print Time (ms) : 700  
Code Type: Datamatrix

**Vendor Details**

	Position	Starting	Ending
Part No :	2	2	
Quantity :	4	2	
Manufacturer :	6	3	
Vendor Code:	N/A		
Date Code :	N/A		
Lot Code :	5	3	
PO No :	N/A		
Packing No:	N/A		
Expire Date:	8	4	

Please Scan QR/Datamatrix:

- 1: D>06
- 2: P28024551
- 3: 19SGVY7WN+D971305001
- 4: Q4000
- 5: 1TWFPC140478
- 6: 1P934663686135
- 7: 2P
- 8: 14D20250310
- 9: 2E1
- 10: Epbfree
- 11: 3Z

**Advanced**

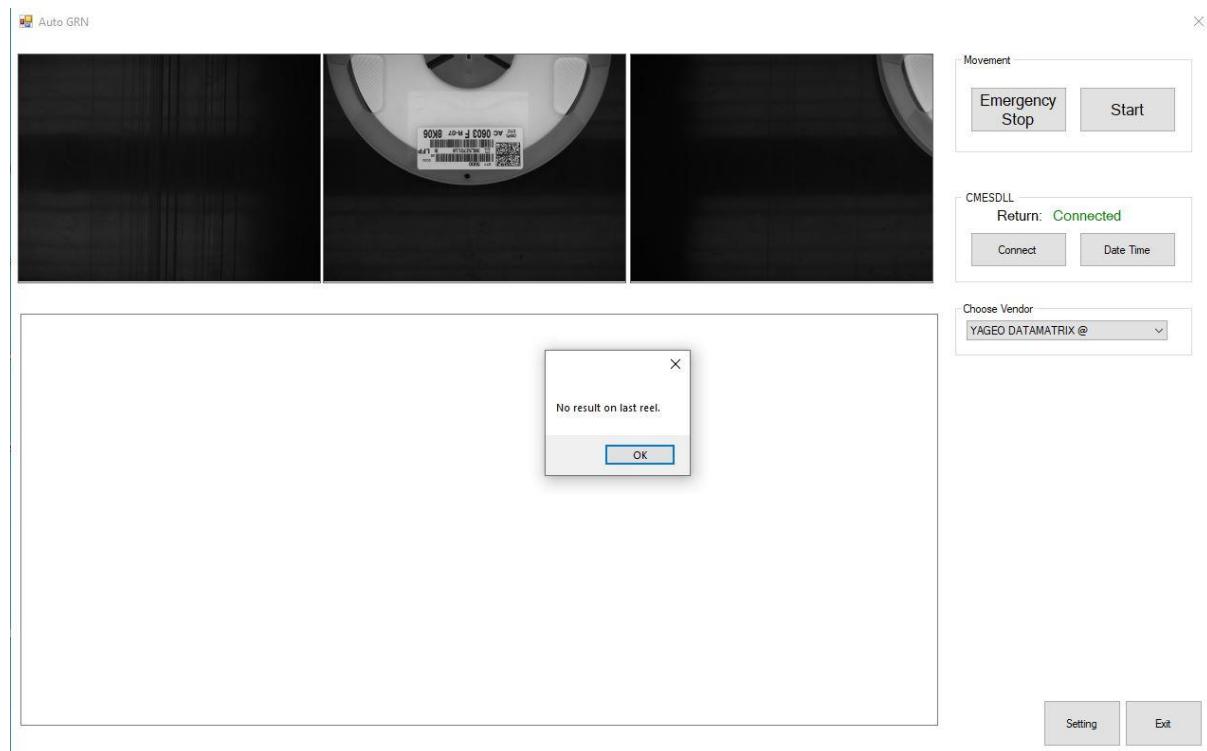
Manual Entry

Vendor Code : D0001  
Date Code : 20230101  
Lot Code :  
PO No : PO0001  
Packing No : P0001  
Expire Date :

Save Cancel

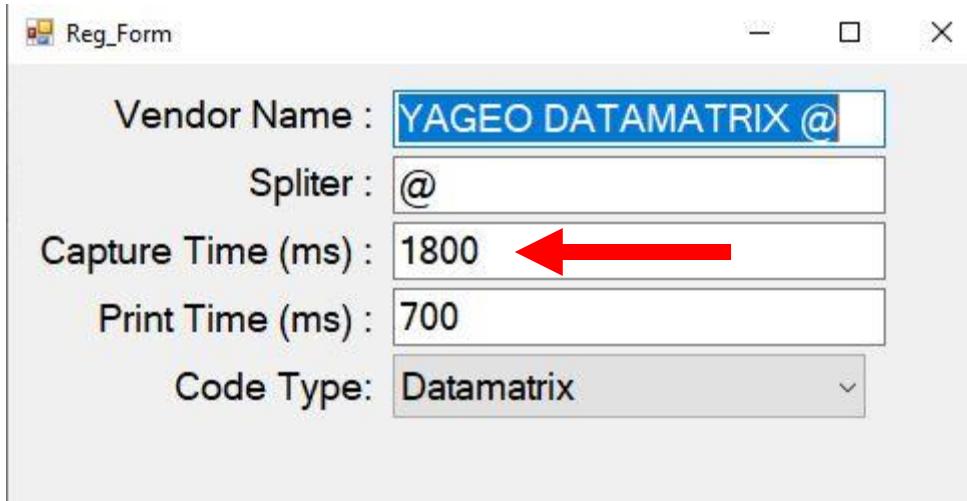
## Error Cases

### Error When Unable to Get Code



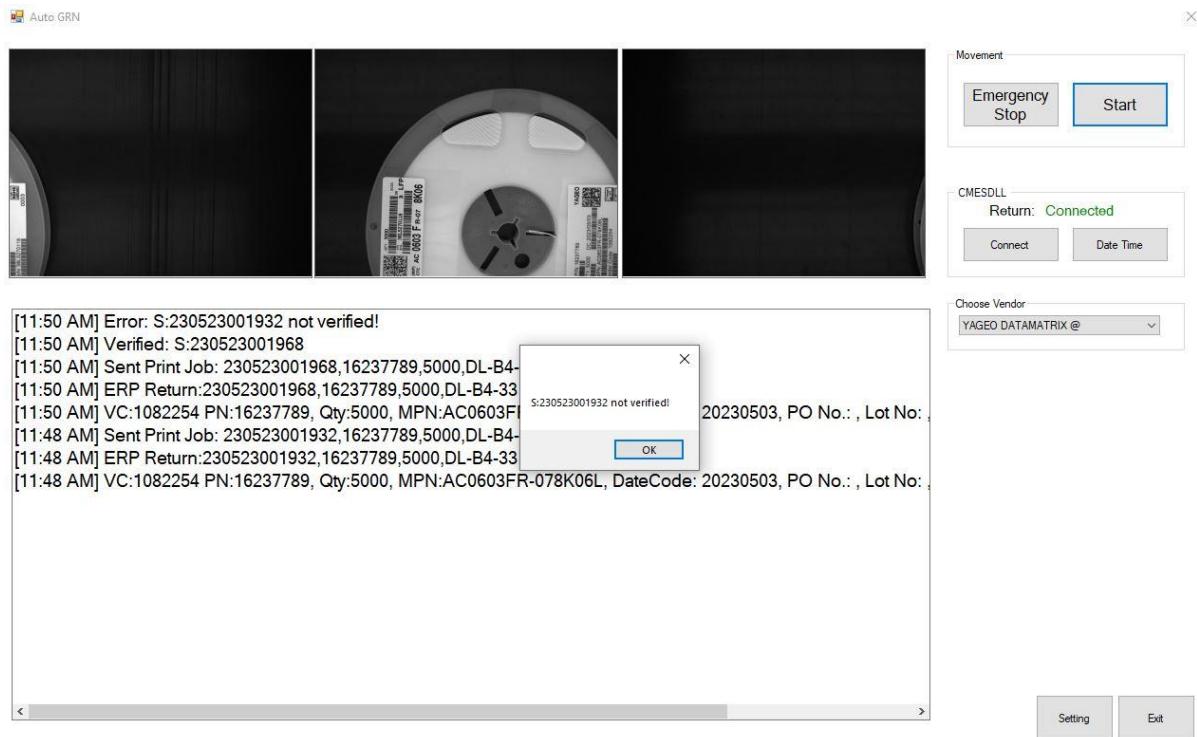
This is due to the target barcode is not in the capturing range.

1. Click "OK".
2. Adjust the orientation of the reel.
3. Edit the "Capture Time" in Settings.



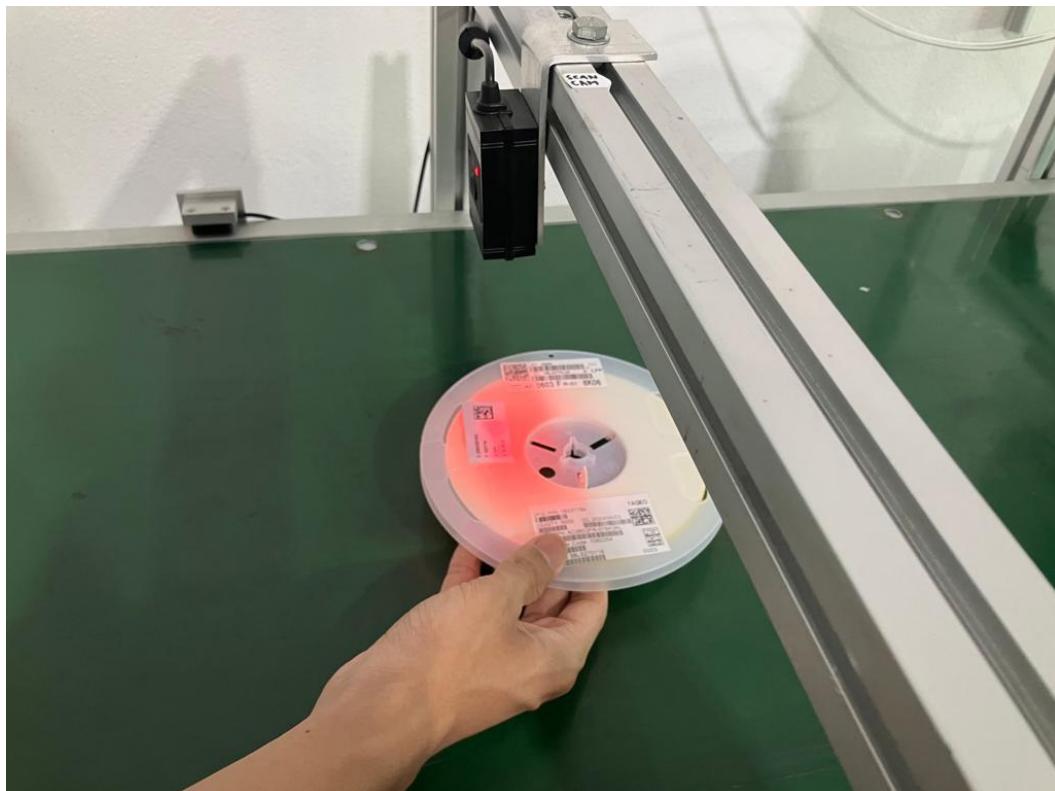
4. Place the reel back at the start of conveyor.
5. Click "Start" at homepage to continue.

## Error When GRN Barcode Not Verified

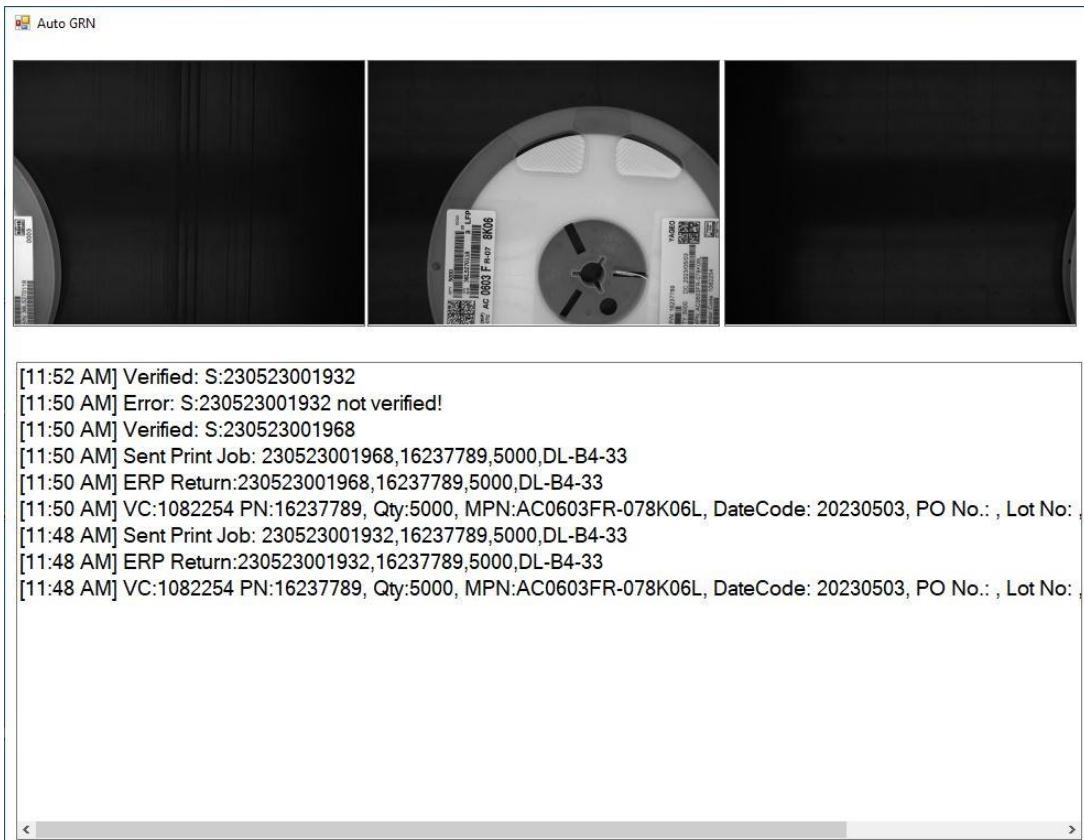


This is due to previous Barcode is not scanned.

1. Click “OK”.
2. Take the previous reel and scan its GRN barcode.



3. Display will show that the GRN barcode is verified.



4. Click "Start" at homepage to continue AutoGRN.