

# TYRE SIDEWALL INSPECTION

# 1. OBJECTIVES

This document describes the procedure on the usage for the Tyre Side Wall Stamping Inspection Application.

The 3D Camera is mounted to the Robot 6th Axis and Scan the Sidewall of the Tyre to capture the 3D Data of the Sidewall of the Tyre.

The 3D Data will be Inspected and the Application will shows the Results.

## HARDWARE :

### 1. MONITOR :

Connectivity: HDMI or DisplayPort

Aspect Ratio: 16:9

Resolution:

[Full HD (1920x1080) with 100% Display Scaling] or

[4K (3840x2160) with 200% Display Scaling]

### 2. DESKTOP PC :

Processor: Intel or AMD

Cores: Minimum 8 Cores with Minimum 16 Logical Processors

Generations: Intel (12th Gen or Above); AMD (Ryzen5 or Above)

Integrated Graphics: Intel UHD/XeGraphics or AMD Ryzen with Radeon Graphics

SSD: 1TB; RAM: 16GB DDR4

Ethernet: Intel Gigabit Ethernet Port (I219-V or Equivalent)

USB3.0: Intel USB3.0 xHCI Compliant Host Controller Type-A

## SOFTWARE:

### OPERATING SYSTEM :

Windows 10 Pro or Windows 11 Pro; 64-Bit (x64)

### QUALITY INSPECTION APPLICATION :

<u>Sl</u>	<b>Package Name</b>	<b>Manufacturer</b>
1	MVC++ 2008 SP1 Redistributable Package MFC Security Update	Microsoft
2	VC++ Redistributable Packages for VS2015-2022-x64	Microsoft
3	.NET Framework 4.8 for x64	Microsoft
4	<u>MachineVisionLibrary</u> for x64	Supplier-Licensed
5	<u>TyreSidewall Inspection Application</u> for x64	Supplier-Licensed

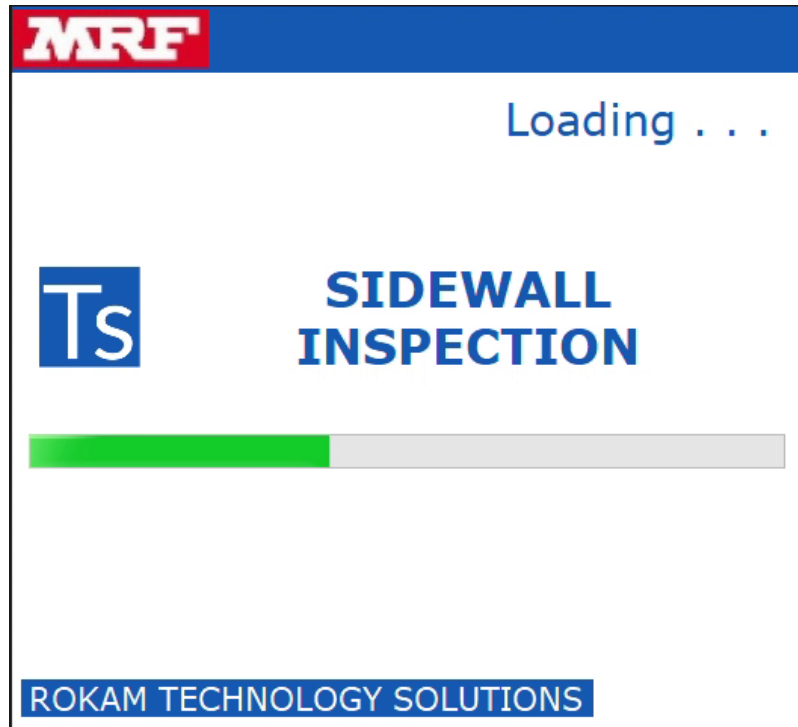
The full installation, including the operating system, will require approximately 50 GB of space on the C drive for the new PC.

## 2. SOFTWARE APPLICATION

Open the Application which is located in Desktop.

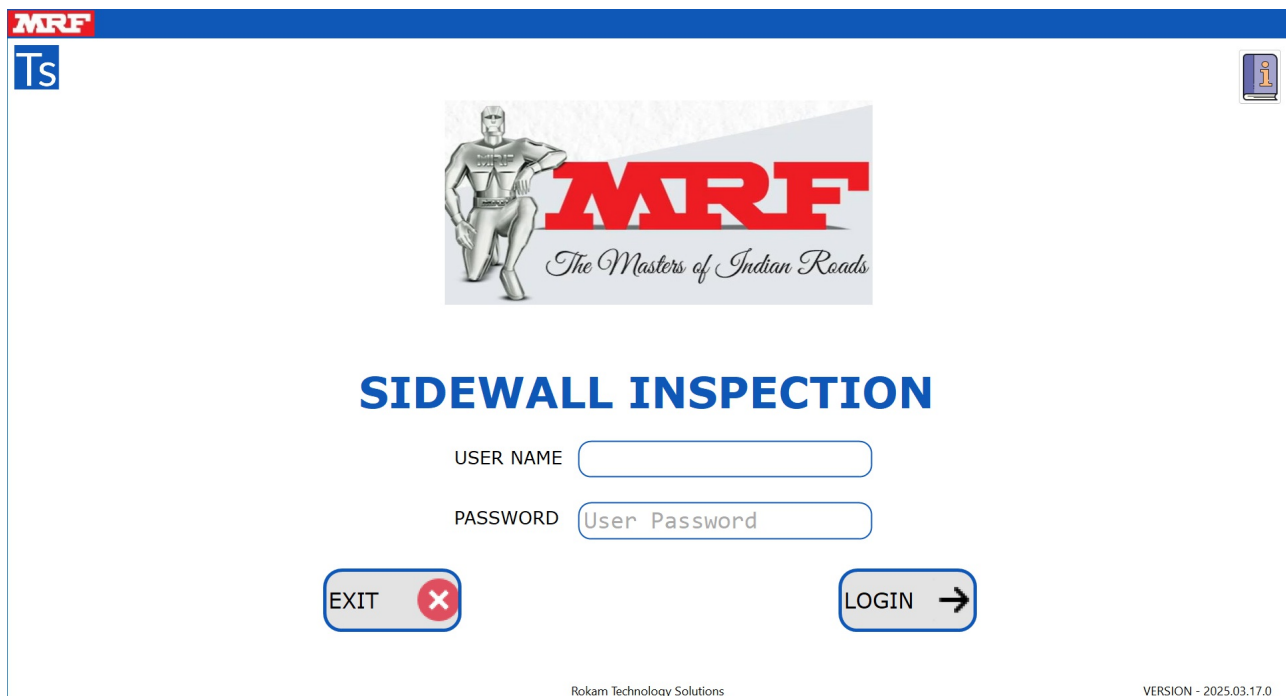


Once the Application is opened, then Application will start. The Below Screen will appear for few seconds which will load all the settings required for the application.



If there are any warnings or error, the respective dialog box will be shown. After this screen is completed, the Login Screen will open.

## 2.1 LOGIN





**MRF**  
Ts

**MRF**  
*The Masters of Indian Roads*

### SIDEWALL INSPECTION

USER NAME

PASSWORD

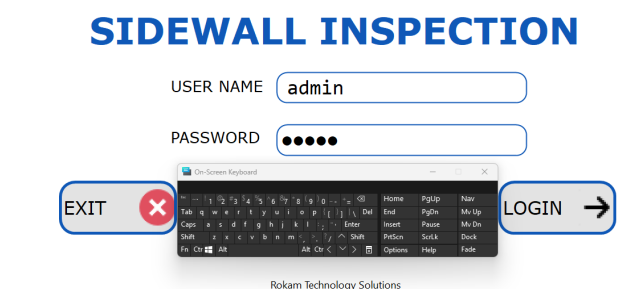
EXIT  LOGIN 

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VERSION - 2025.03.17.0

1. Click the **i** icon to open the User Manual.
2. View the application version number in the bottom-right corner of the screen.



Enter your username and password on the login screen.



**SIDEWALL INSPECTION**

USER NAME

PASSWORD

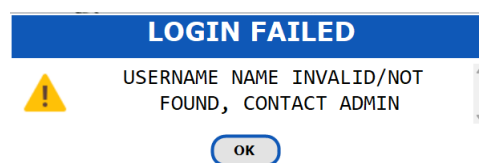
EXIT  LOGIN 

On-Screen Keyboard


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1. Click the Login button to access the application.
2. Click the Exit button to close the application.
3. The logged-in username will appear in the top-left corner of every screen from Dashboard.

Contact the administrator for a valid username and password if needed.

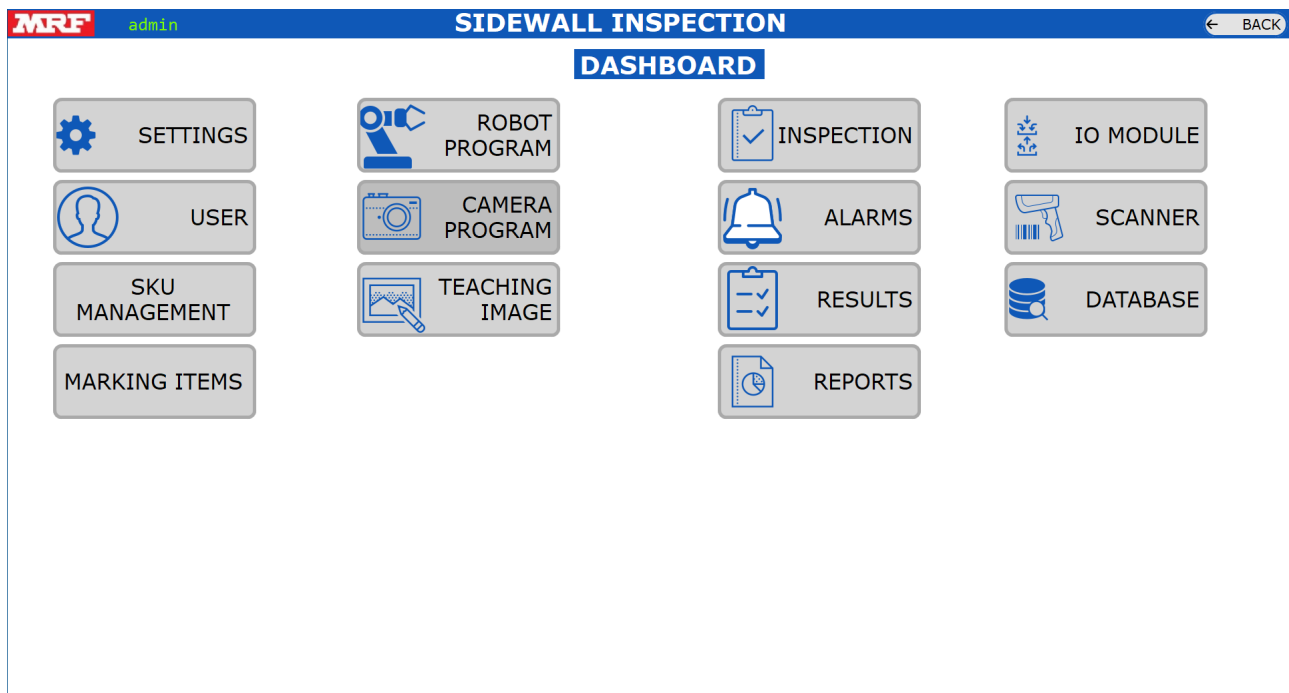


**LOGIN FAILED**

 USERNAME NAME INVALID/NOT FOUND, CONTACT ADMIN

OK

## 2.2 DASHBOARD



**Settings :** All the Settings for the Application are editable.

**User :** Add/Delete/View the users for this application.

**SKU Management :** Add/Delete/View the SKUs for this application.

**Marking Items :** Add/Delete/View the Marking Items for each SKU

**Robot Program :** Configure the robot for each SKU based on the requirement. The robot program for each SKU will be created automatically.

**Camera Program :** Configure the Camera for each SKU based on the requirement

**Teaching Image :** Add/Edit the Inspection Parameters for each SKU

**Inspection :** Inspect the Components based on the configured Settings for each SKU.

**Alarms :** View/Export the Alarms that are logged in this Application.

**Results :** View the Result (PDF, Image, Individual Results) for each inspection Components

**Reports :** View all the Results in a Single View with Statistical Analysis.

**IO Module :** Monitors and controls the input and output signals, ensuring proper communication between external devices and the system.

**Scanner :** A barcode device used to scan the barcode present on the tyre sidewall, enabling identification of the tyre.

**Database :** A structured collection of data used to store and manage tyre inspection details.

## 2.3 SETTINGS

admin

SIDEWALL INSPECTION

SAVE

BACK

Last Modified on : 17-03-2025

SETTINGS

Inspection

Save 3D Images : ☐

Data Location - Local/Network Folder

BROWSE FOLDER

D:\RESULTS\_TYRESIDEWALL\

IP Addresses

ROBOT : 192.168.0.20

SAFETY PLC : 192.168.0.30

CAMERA : 192.168.0.40

PC(ETH1) : 192.168.0.100

PC(ETH2) : 192.168.0.110

Database

Server Host Name : 192.168.101.49

Server Database Name : PCR\_SIDEWALL\_MARKING

Server User Name : PCRSW

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

FPITyreData Table Name : MesWrite\_FPITyreData

**Data Location:** Click on BrowseFolder Button and Select the Folder where we need to save the Inspection Results.

**Inspection:** Enable or Disable this Functionality, so that if we need to save the original image which is been captured during inspection for every component.

**IP Addresses:** ROBOT : IP address of the robotic system used for sidewall inspection.

SAFETY PLC: IP address of the safety PLC (Programmable Logic Controller) responsible for safety operation.

CAMERA : IP address of the camera capturing inspection images.

PC(ETH1) : IP address of the primary Ethernet-connected PC for processing.

PC(ETH2) : IP address of the secondary Ethernet-connected PC for backup or communication.

**Database:** Server Host Name : IP address of the database server used to store inspection data.

Server Database Name : Name of the database handling sidewall marking data.

Server User Name : Username used for database authentication.

Server Password : Password for database access (hidden for security).

FPITyreData Table Name: Table used to write tyre inspection data into the database

# 2.4 USERS

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admin

SIDEWALL INSPECTION

← BACK

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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
admin	Administrator	x

You can **add new users**, **delete existing users**, and **view existing users**.

To add a **new user**, enter a username (up to 8 characters), a password (up to 8 characters), and select a role: **Administrator**, **Maintenance**, or **Operator**.

Then, click the **Add User** button.

**Role Accessibility:**

Option	Administrator	Maintenance	Operator
SETTINGS	YES	NO	NO
USER	YES	NO	NO
SKU MANAGEMENT	YES	NO	NO
MARKING ITEMS	YES	NO	NO
CAMERA PROGRAM	YES	NO	NO
ROBOT PROGRAM	YES	NO	NO
TEACHING IMAGE	YES	NO	NO
INSPECTION	YES	YES	YES
ALARMS	YES	YES	YES
RESULTS	YES	YES	YES
REPORTS	YES	YES	YES
IO MODULE	YES	YES	NO
SCANNER	YES	YES	NO
DATABASE	YES	YES	NO

## 2.5 SKU MANAGEMENT

**MRF** admin **SIDEWALL INSPECTION** ONLINE [← BACK](#)

002

Last Modified on : 17-03-2025 - 373.62[MB]

[+](#) ADD [COPY](#) [BACKUP](#)

ID	SKU CODE	REMOVE
001	CT18341161	<a href="#">×</a>
003	CT16353761	<a href="#">×</a>
004	CT18342621	<a href="#">×</a>

Images Camera Settings Marking Items Image Settings

Captured on : 14-03-2025 TOP # Space: (480,164, 1702,61) Zoom: 6.52% Value: 2

Dimensions : 20600 x 3072

Captured on : 14-03-2025 BOTTOM # Space: (5141,92, -681,459) Zoom: 6.46% Value: --

Dimensions : 20800 x 3072

[BACKUP ALL SKUs](#)

**Accessible for:** Administrator

You can create, delete, copy, or view an SKU.

**SKU ID:** This ID is used as Short-Code for SKU Name to access SKU using PLC, etc.

**SKU Name:** This is used as the name of the Item that has to be inspected.

**Create:** Select the SKU ID and enter the new SKU Name and click on **ADD** button. Special Characters and Existing SKU Names are not allowed to create new SKU.

**Delete:** Select the SKU. Click on the 'x' mark. It will prompt dialog box to accept for the deletion of the SKU. Once it is deleted, it is deleted permanently and it is not possible to recover it back.

**Copy:** Select the new SKU ID and Enter the New SKU Code. Select the Existing Job and Click on **COPY** Button. After Copy is completed, the newly copied Job is appeared in the list.

**View:** All the Settings relative for the SKU will be visible in the main screen of this SKU Management.

**MRF** admin **SIDEWALL INSPECTION** ONLINE [← BACK](#)

002

Last Modified on : 17-03-2025 - 373.62[MB]

[+](#) ADD [COPY](#) [BACKUP](#)

ID	SKU CODE	REMOVE
001	CT18341161	<a href="#">×</a>
003	CT16353761	<a href="#">×</a>
004	CT18342621	<a href="#">×</a>

Images Camera Settings Marking Items Image Settings

Captured on : 14-03-2025 TOP # Space: (480,164, 1702,61) Zoom: 6.52% Value: 2

Dimensions : 20600 x 3072

Captured on : 14-03-2025 BOTTOM # Space: (5141,92, -681,459) Zoom: 6.46% Value: --

Dimensions : 20800 x 3072

[BACKUP ALL SKUs](#)



The Settings that are visible for every SKU are:

- Images: Delete/View the Images which are captured as reference by the Camera.
- Image Settings: The inspection parameters are displayed in this section.
- Camera Settings: The camera settings for each SKU, such as the serial number , IP address, etc., are displayed in this section.
- Marking Items: The naming conventions for the inspection parameters that have been configured are displayed in this section.

You can also delete individual settings by clicking the **DELETE** button.

## 2.6 INSPECTION

Accessible for: **Administrator**, **Maintenance** and **Operator**.

The screenshot shows the 'SIDEWALL INSPECTION' application interface. At the top, there is a header bar with the MRF logo, the user 'admin', the title 'SIDEWALL INSPECTION', and status indicators 'ONLINE' and 'IO Module: TRUE'. A 'BACK' button is also present. Below the header, a section titled 'SELECT THE SKU FROM THE LIST' contains two large black rectangular areas labeled 'TOP' and 'BOTTOM' for image display. To the right of these areas is a table with columns: 'ID', 'MARKING ITEM', 'TOP', and 'BOTTOM'. Below the main display area, there is a 'Select SKU Number' dropdown menu set to 'top', and two buttons: 'SCAN TYRE' and 'INSPECT'. Below these are input fields for 'MES DATA': 'BARCODE', 'MOULD NO.', and 'WEEK CODE', each with a corresponding 'LOAD IMAGE' button.

- Scan the Barcode present on the top side of the tyre to load **SKU number**.
- The settings linked to the selected SKU will be loaded into the application
- **Administrator/Maintenance**: Will have an option to manually load the image to inspect the image.
- **Operator**: Must press both the push button simultaneously to trigger the camera and inspect the image.
- Check the two options on the top right side of the screen indicating the **ROBOT** and **IO-module** status. Both should be **Online** and **True** before inspecting the tyre.
- While selecting the **SKU**, the **Top** Side option will be automatically selected during the first scan of the tyre. Once the image is ready, the inspection will occur for the top side and update the following:

- o A new image with graphics will appear in the TOP of the screen for top side and BOTTOM of the screen for bottom side of the tyre.
- o The inspection results for all tools will be updated on the right side of the screen under the TOP section.
- o The PASS/FAIL counter will be updated on the right side of the screen under the TOP section.

**STEP-1 : SCAN THE BARCODE TO LOAD THE RESPECTIVE SKU USING THE HANDLE SCANNER**

admin

**SIDEWALL INSPECTION**
ONLINE
IDModule:TRUE
BACK

INSERT TYRE AND PRESS START BUTTON

TOP

BOTTOM

001-CT18341161
top
SCAN TYRE
INSPECT

**MES DATA**  
 BARCODE :  
 MOULD NO :  
 WEEK CODE :

LOAD IMAGE

INSPECTED :

ID	MARKING ITEM	TOP	BOTTOM
01	TYRE_SIZE		
02	TYRE_MODEL		
03	TYRE_VERSION		
04	TREADWEAR		
05	TRACTION_RATING		
06	TEMPERATURE_RATING		
07	MAXLOAD		
08	MAXPRESSURE		
09	MRF_LOGO		
10	TREAD		
11	SIDEWALL		
12	DOT		
13	ISI_LOGO		
14	E4_LOGO		
15	BELTED		
16	SNI		
17	ECOTRED_LOGO		
18	NYLON_PATTERN		
30	TYRE_SIZE_VALUE		
31	TREADWEAR_VALUE		
32	TREAD_VALUE1		
34	MAXLOAD_VALUE1		
35	MAXLOAD_KGS		
36	MAXPRESSURE_VAULE1		
37	MAXPRESSURE_KPA		
39	TREAD_VALUE2		
40	SIDEWALL_VALUE1		
41	SIDEWALL_VALUE2		
45	TUBE_TYPE		
46	ISI_LINE1		

**STEP-2 : PRESS BOTH THE PUSH BUTTON SIMULTANEOUSLY TO SCAN AND INSPECT THE TYRE**

admin

**SIDEWALL INSPECTION**
ONLINE
IDModule:TRUE
BACK

INSERT TYRE AND PRESS START BUTTON

TOP

BOTTOM

001-CT18341161
top
SCAN TYRE
INSPECT

**MES DATA**  
 BARCODE :  
 MOULD NO :  
 WEEK CODE :

LOAD IMAGE

INSPECTED :

ID	MARKING ITEM	TOP	BOTTOM
01	TYRE_SIZE		
02	TYRE_MODEL		
03	TYRE_VERSION		
04	TREADWEAR		
05	TRACTION_RATING		
06	TEMPERATURE_RATING		
07	MAXLOAD		
08	MAXPRESSURE		
09	MRF_LOGO		
10	TREAD		
11	SIDEWALL		
12	DOT		
13	ISI_LOGO		
14	E4_LOGO		
15	BELTED		
16	SNI		
17	ECOTRED_LOGO		
18	NYLON_PATTERN		
30	TYRE_SIZE_VALUE		
31	TREADWEAR_VALUE		
32	TREAD_VALUE1		
34	MAXLOAD_VALUE1		
35	MAXLOAD_KGS		
36	MAXPRESSURE_VAULE1		
37	MAXPRESSURE_KPA		
39	TREAD_VALUE2		
40	SIDEWALL_VALUE1		
41	SIDEWALL_VALUE2		
45	TUBE_TYPE		
46	ISI_LINE1		

**STEP-3 : RESULTS WILL APPEAR ON THE RIGHT SIDE OF THE SCREEN**

admin

SIDEWALL INSPECTION
ONLINE
IDModule:TRUE
BACK

TYRE INSPECTION STARTED ...

TOP

BOTTOM

001-CT18341161
bottom
SCAN TYRE
INSPECT

MES DATA  
 BARCODE :  
 MOULD NO :  
 WEEK CODE :

LOAD IMAGE

INSPECTED :

ID	MARKING ITEM	TOP	BOTTOM
01	TYRE_SIZE	PASS	
02	TYRE_MODEL	NA	
03	TYRE_VERSION	PASS	
04	TREADWEAR	PASS	
05	TRACTION_RATING	PASS	
06	TEMPERATURE_RATING	PASS	
07	MAXLOAD	PASS	
08	MAXPRESSURE	PASS	
09	MRF_LOGO	NA	
10	TREAD	PASS	
11	SIDEWALL	PASS	
12	DOT	PASS	
13	ISI_LOGO	PASS	
14	E4_LOGO	PASS	
15	BELTED	PASS	
16	SNI	PASS	
17	ECOTRED_LOGO	NA	
18	NYLON_PATTERN	PASS	
30	TYRE_SIZE_VALUE	PASS	
31	TREADWEAR_VALUE	PASS	
32	TREAD_VALUE1	PASS	
34	MAXLOAD_VALUE1	PASS	
35	MAXLOAD_KGS	PASS	
36	MAXPRESSURE_VAULE1	PASS	
37	MAXPRESSURE_KPA	PASS	
39	TREAD_VALUE2	PASS	
40	SIDEWALL_VALUE1	PASS	
41	SIDEWALL_VALUE2	PASS	
45	TUBE_TYPE	PASS	
46	ISI_LINE1	PASS	

**STEP-4 : NOW FLIP THE TYRE TO SCAN THE BOTTOM SIDE**

admin

SIDEWALL INSPECTION
ONLINE
IDModule:TRUE
BACK

FLIP THE TYRE AND PRESS START BUTTON TO SCAN

TOP

BOTTOM

001-CT18341161
bottom
SCAN TYRE
INSPECT

MES DATA  
 BARCODE :  
 MOULD NO :  
 WEEK CODE :

LOAD IMAGE

INSPECTED :

ID	MARKING ITEM	TOP	BOTTOM
01	TYRE_SIZE	PASS	
02	TYRE_MODEL	NA	
03	TYRE_VERSION	PASS	
04	TREADWEAR	PASS	
05	TRACTION_RATING	PASS	
06	TEMPERATURE_RATING	PASS	
07	MAXLOAD	PASS	
08	MAXPRESSURE	PASS	
09	MRF_LOGO	NA	
10	TREAD	PASS	
11	SIDEWALL	PASS	
12	DOT	PASS	
13	ISI_LOGO	PASS	
14	E4_LOGO	PASS	
15	BELTED	PASS	
16	SNI	PASS	
17	ECOTRED_LOGO	NA	
18	NYLON_PATTERN	PASS	
30	TYRE_SIZE_VALUE	PASS	
31	TREADWEAR_VALUE	PASS	
32	TREAD_VALUE1	PASS	
34	MAXLOAD_VALUE1	PASS	
35	MAXLOAD_KGS	PASS	
36	MAXPRESSURE_VAULE1	PASS	
37	MAXPRESSURE_KPA	PASS	
39	TREAD_VALUE2	PASS	
40	SIDEWALL_VALUE1	PASS	
41	SIDEWALL_VALUE2	PASS	
45	TUBE_TYPE	PASS	
46	ISI_LINE1	PASS	

The respective dialog box will appear, saying: **"Flip the tyre and press the Start button to scan."**

**STEP-5 : PRESS BOTH THE PUSH BUTTON SIMULTANEOUSLY TO SCAN AND INSPECT THE TYRE**

MRF
admin
SIDEWALL INSPECTION
ONLINE
IOModule:TRUE
BACK

TYRE SCANNING STARTED ...

TOP

BOTTOM

001-CT18341161
bottom
SCAN TYRE
INSPECT
LOAD IMAGE

MES DATA
BARCODE :
MOULD NO :
WEEK CODE :

INSPECTED :

ID	MARKING ITEM	TOP	BOTTOM
01	TYRE_SIZE	PASS	
02	TYRE_MODEL	NA	
03	TYRE_VERSION	PASS	
04	TREADWEAR	PASS	
05	TRACTION_RATING	PASS	
06	TEMPERATURE_RATING	PASS	
07	MAXLOAD	PASS	
08	MAXPRESSURE	PASS	
09	MRF_LOGO	NA	
10	TREAD	PASS	
11	SIDEWALL	PASS	
12	DOT	PASS	
13	ISI_LOGO	PASS	
14	E4_LOGO	PASS	
15	BELTED	PASS	
16	SNI	PASS	
17	ECOTRED_LOGO	NA	
18	NYLON_PATTERN	PASS	
30	TYRE_SIZE_VALUE	PASS	
31	TREADWEAR_VALUE	PASS	
32	TREAD_VALUE1	PASS	
34	MAXLOAD_VALUE1	PASS	
35	MAXLOAD_KGS	PASS	
36	MAXPRESSURE_VALUE1	PASS	
37	MAXPRESSURE_KPA	PASS	
39	TREAD_VALUE2	PASS	
40	SIDEWALL_VALUE1	PASS	
41	SIDEWALL_VALUE2	PASS	
45	TUBE_TYPE	PASS	
46	ISI_LINE1	PASS	

STEP-6 : RESULTS WILL APPEAR ON THE RIGHT SIDE OF THE SCREEN

MRF
admin
SIDEWALL INSPECTION
OFFLINE
IOModule:FALSE
BACK

INSPECTION COMPLETED

TOP

BOTTOM

Select SKU Number
top
SCAN TYRE
INSPECT
LOAD IMAGE

MES DATA
BARCODE :
MOULD NO :
WEEK CODE :

INSPECTED : CT18342621

ID	MARKING ITEM	TOP	BOTTOM
01	TYRE_SIZE	PASS	PASS
02	SNI	PASS	PASS
03	E4_LOGO	PASS	PASS
04	MAXLOAD	PASS	PASS
05	MAXPRESSURE	PASS	PASS
06	ECOTRED_LOGO1	PASS	PASS
07	TREAD	PASS	PASS
08	SIDEWALL	PASS	PASS
09	PLYSTEEL	PASS	PASS
10	DOT	PASS	PASS
11	ISI_LOGO	PASS	PASS
12	ECOTRED_LOGO2	PASS	PASS
13	BELTED	PASS	PASS
14	TREADWEAR	PASS	PASS
15	TRACTION	PASS	PASS
16	TEMPERATURE	PASS	PASS
30	TYRE_SIZE_VALUE	PASS	PASS
34	E4_VALUE	PASS	PASS
35	GCA1_1	PASS	PASS
36	MRF_1	PASS	PASS
37	MAXLOAD_VALUE1	PASS	PASS
38	MAXLOAD_VALUE2	PASS	PASS
39	MAXLOAD_VALUE3	PASS	PASS
40	MAXPRESSURE_VALUE1	PASS	PASS
41	MAXPRESSURE_VALUE2	PASS	PASS
42	MAXPRESSURE_VALUE3	PASS	PASS
43	TREAD_VALUE1	PASS	PASS
44	TREAD_VALUE2	PASS	PASS
45	TREAD_VALUE3	PASS	PASS
46	SIDEWALL_VALUE1	PASS	PASS

# 2.7 ALARMS

Accessible for: **Administrator**, **Maintenance** and **Operator**.

MRF

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SIDEWALL INSPECTION

←

BACK

19 March 2025

📅

INFO

▼

GET ALARMS

ALARMS

19 March 2025

📅

TO

19 March 2025

📅

EXPORT ALARMS

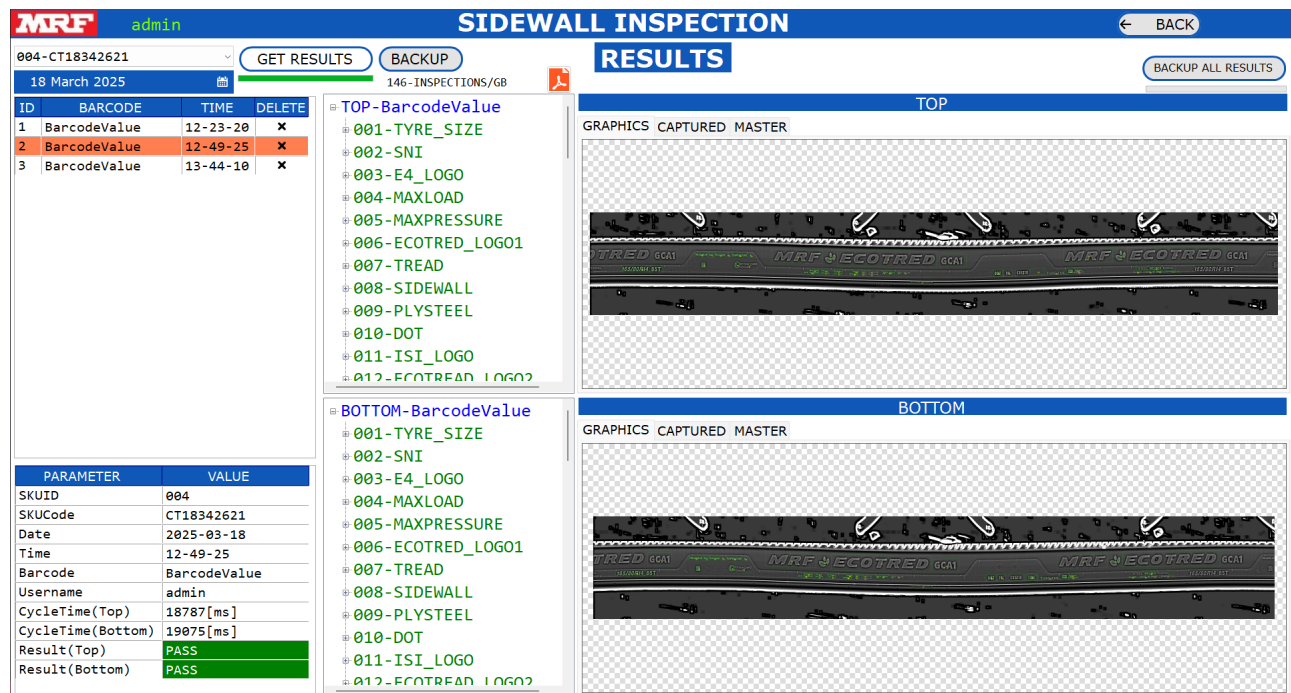
DATE	TIME	TYPE	USER	FORM	DESCRIPTION
2025-03-19	09:43:46.873	INF	APP	LOGIN	LOGIN BUTTON CLICKED
2025-03-19	09:43:46.881	INF	admin	LOGIN	LOGIN AS admin SUCCESS
2025-03-19	09:43:47.067	INF	admin	DASHBOARD	FORM_LOADED
2025-03-19	09:43:50.381	INF	admin	DASHBOARD	ALARMS BUTTON CLICKED
2025-03-19	09:43:50.655	INF	admin	ALARMS	FORM_LOADED

Alarms will display all log information for the application.

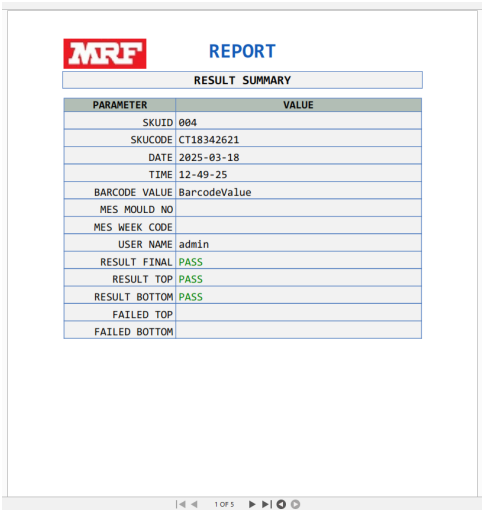
- Select Date and Select Type of Alarm
- Click on **GET ALARMS** Button.
- To export alarms, select the start date and end date, then click the Export Alarms button. The alarm data will be exported to the '**Data Location**' folder.
- Click the **BACK** Button to return to the Dashboard.

# 2.8 RESULTS

Accessible for: **Administrator, Maintenance and Operator.**



- Select the **SKU Number**.
- Select the **Date**.
- Click on **GET RESULTS** Button.
- The Results will be Displayed in the List.
- Click on the trigger number to view the result of the inspected object.
- Click on **PDF ICON** to see the PDF report of the Inspection.



- Expand the Tree View to View the Full Inspection details of the inspected object.
- The graphic image will be displayed in the center of the screen.
- The metadata information about the inspected object is available at the bottom left corner of the screen.
- Click the **BACK** Button to return to the Dashboard.

## 2.9 REPORTS

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SIDEWALL INSPECTION

← BACK

Select SKU Number

All Users

GET REPORTS

REPORTS

19 March 2025 | 00:00:00

Top : ALL

19 March 2025 | 23:59:59

Bottom : ALL

ID	SKU	DATE	TIME	BARCODE	USER	TOP	BOTTOM
----	-----	------	------	---------	------	-----	--------

TOTAL	PASS	FAIL

Accessible for: **Administrator**, **Maintenance** and **Operator**.

- Select the **SKU Number**.
- Select the **Start Date** and **End Date**.
- Select the **User Name**
- Select the Result **PASS/FAIL/ALL**.
- Click on **GET REPORTS** Button.

MRFadmin

SIDEWALL INSPECTION

← BACK

Select SKU Number

All Users

GET REPORTS

REPORTS

17 March 2025 | 00:00:00

Top : ALL

19 March 2025 | 23:59:59

Bottom : ALL

ID	SKU	DATE	TIME	BARCODE	USER	TOP	BOTTOM
1	001_CT18341161	17-03-2025	11-02-56	BarcodeValue	a	FAIL	NA
2	001_CT18341161	17-03-2025	18-51-31	BarcodeValue	admin	FAIL	FAIL
3	003_CT16353761	17-03-2025	18-09-14	BarcodeValue	a	PASS	PASS
4	004_CT18342621	18-03-2025	12-23-20	BarcodeValue	admin	PASS	NA
5	004_CT18342621	18-03-2025	12-49-25	BarcodeValue	admin	PASS	PASS
6	004_CT18342621	18-03-2025	13-44-10	BarcodeValue	admin	PASS	PASS

TOTAL	PASS	FAIL
6	3	3

50%

50%

- The total, pass, and fail counts will be displayed in a table and also shown in a pie chart.
- The Failed Details will be shown in Table.
- The results of all inspection details will be updated in the list.
- Click the **EXPORT** button to export the list of all inspection details to a CSV file in the Data Location folder.



- Click on the **Trigger number** to view the result of the inspected object.
- Click on the **PDF icon** to view the PDF report of the inspection.
- Click on **BACK** Button to return to the Dashboard.
- Select the trigger details to view the history of all inspection results in graph form.

## 2.10 IO MODULE

Monitors and controls the system's inputs and outputs, including sensors, buttons, and lamps, ensuring proper machine operation during tyre inspection.

Click on connect button to get connected to the IO module.

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SIDELINE INSPECTION

← BACK

IO MODULE

TO MODULE

CONNECT

DISCONNECT

Status :

INPUTS

☐ I0 - START PUSH BUTTON

☐ I1 - RESET PUSH BUTTON

☐ I2 - EMERGENCY PUSH BUTTON

☐ I3 - SAFETY CURTAIN

☐ I4 - TYRE SENSOR

☐ I5 - CLAMP SENSOR

☐ I6 - AIR PRESSURE

☐ I7 - ROBOT AUTO(ON)/MANUAL(OFF)

☐ I8 - SAFETY ERROR

OUTPUTS

O0

☒ O0 - CLAMP ON

O1

☐ O1 - CLAMP OFF

O2

☐ O2 - RED TOWER LAMP

O3

☐ O3 - GREEN TOWER LAMP

O4

☐ O4 - YELLOW TOWER LAMP

O5

☐ O5 - MACHINE STATUS

O6

☐ O6 - MACHINE LIGHT

# 2.11 SCANNER

This option is used to establish connectivity with the scanner and retrieve barcode details.

MRFadminSIDEWALL INSPECTION

←BACK

Scanner

CONNECT SCANNERDISCONNECT SCANNER

Scanner Details

TYPE	SERIAL	MODEL	FIRMWARE
------	--------	-------	----------

Scanner Received Data

TIME	TYPE	LENGTH	BARCODE VALUE
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## 2.12 DATABASE

This option is used to check the database connectivity based on the details entered in the Settings section, including the server IP, database name, username, and password.

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SIDEWALL INSPECTION

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Settings

Server Host Name :192.168.101.49

Server Database Name :PCR\_SIDEWALL\_MARKING

Server User Name :PCRSW

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

FPITyreData Table Name :MesWrite\_FPITyreData

DATABASE

Connection

CONNECT

DISCONNECT

FETCH BARCODE DETAILS

Database Received Data

### 3.MAINTENANCE and TROUBLESHOOTING

#### ***Maintenance :***

- The inspection results are stored in the 'Data Location' folder.

Please ensure that at least 25% of free space is always available on the respective drive.

- If less than 5% of free space is available on the application installation drive (ideally the C drive) or on the 'Data Location' folder drive, the application will not open.

#### ***TROUBLESHOOTING :***

- There are three types of messages that will appear in a dialog box.
- Information, Warning and Error
- When an error occurs, delete the SKU with the error through SKU Management and create a new SKU for it.
- Please read the camera user manual carefully for troubleshooting instructions.