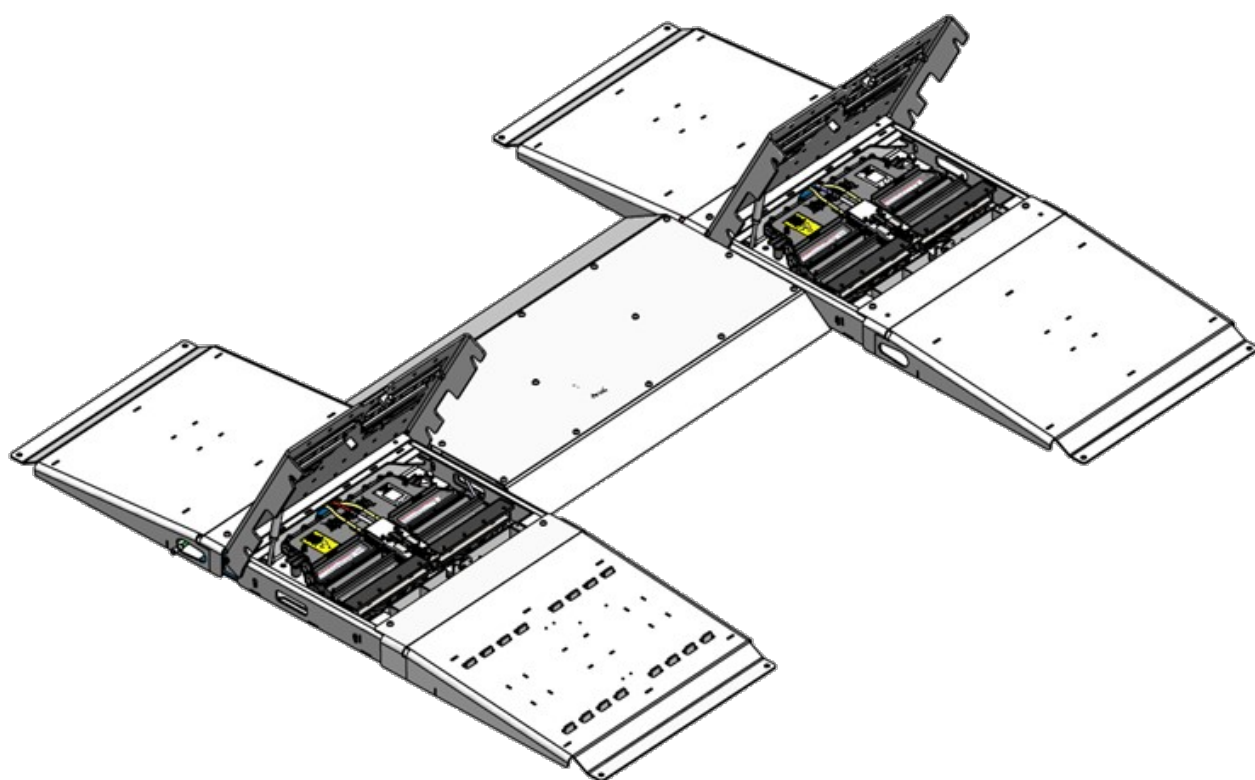




DriveOver Surface Ramp EMEA

Operation Manual

ZEETD915AEA2 en-GB Rev 3

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Preface

FAMILY NAME	MODELS	DESCRIPTION OF THE MACHINE
TreadReader	EETD915AEA, EETD918AEA	Ramp
TreadReader	EETD916AE(A/B), EETD919AEA	Flush

EC DECLARATION (Original document contained in Spare Parts Booklet)

DECLARATION CE (Le document original figurant dans le Liste des pièces détachées)

CE KONFORMITÄTSEKRLÄRUNG (Originaldokument in der Ersatzteilliste enthaltenen)

ДЕКЛАРАЦИЯ ЕС (Оригинал документа прилагается к ведомости запчастей)

DICHIARAZIONE CE (Originale contenuta nel Libretto Ricambi)

DECLARACIÓN CE (El original se encuentra en tabla de repuestos)

DECLARAÇÃO CE (O original está contida em Lista de peças)

- FACSIMILE - ФАКСИМИЛЕ -

ENG - DECLARATION OF CE CONFORMITY
FRA - DECLARATION CE DE CONFORMITE
DEU - KONFORMITÄTSEKRLÄRUNG
ITA - DICHIARAZIONE CE DI CONFORMITA'
FIN - EYVAIKUUSVASTAUSVAKUUTUS
NLD - VERKLARING VAN OVERENSTEMMING
SWE - EG-ÖVERENSSTÄMMELSE
DAN - EF-ÖVERENSSTÄMMELSESEKRLÆRING
ISL - EY-SAMRÆMISFIRING
POL - DEKLARACJA ZGODNOŚCI "CE"
ROM - DECLARATIE DE CONFORMITATE CU NORMELE CE
SLO - ES VYHLASENIE O ZHODI
SLV - IZJAVA O SKLADNOSTI CE
ALB - DEKLARATE KONFORMITETI KE
HUN - EK MEGFELELŐSÉGI NYILATKOZAT

CE

DICHIARAZIONE CE DI CONFORMITA' - ITA
DECLARACIÓN CE DE CONFORMIDADE - POR
DECLARATION CE DE CONFORMIDAD - SPA
DEKLARACIJA ZA CUSTOBTETSTVIE - BUL
ES PROKLASANI O ZHODI - CES
DEKLARACIJA CE O PODOBNOSTI - HRV
EU VASTAVUSEDEKLARATSIOON - EST
MADEIN CE TYMORPOBHOCT - ELL
ES ATILSTIBAS DEKLARACIJA - LAV
ATTIKTITES DEKLARACIJA - LIT
DECLARACIJA ZA COODPARNOST - MKD
DECLARACIJA CE O USKLADENOSTI - MON
EG UYUQLUK BEYANNAMESI - TUR
DECLARACIJA SOOTVETSTVIA STANDARTAM EC - RUS

Snap-on Equipment Srl - Via Provinciale per Carpi, 33 - 42015 Correggio (RE) Italy

ENG - takes full responsibility for declaring that the machine:
FRA - déclare sous sa propre responsabilité que la machine:
DEU - erklärt auf eigene Verantwortung, dass die Maschine:
ITA - dichiara sotto la propria responsabilità che la macchina:
FIN - vastaa oman vastuunsa, että kone:
NLD - verklaart voor eigen verantwoordelijkheid dat de machine:
SWE - förklarar under eget ansvar att maskinen:
DAN - erklærer på eget ansvar, at maskinen:
ISL - kinnbúið umal vastuulsi, að gættur:
POL - wzykuję omla vastuulsi, että kone:
ROM - declar pe propria răspundere că mașina:
SLO - izjavljam na svojo odgovornost, da je stroj:
SLV - izjavljam na svojo odgovornost, da je stroj:
ALB - fshohet për vetë përgjegjësi të kësaj mashine:
HUN - vállalok a gépért felelősséget, hogy a gép megfelel az előírt követelményeknek.

TYRE TREAD READER
SCANNER DE BANDE DE ROULEMENT DE PNEU
REFINEROLISCANNER
SCANNER DEL BATTISTRADA DEL PNEUMATICO
SCANNER DE BANDA DE RODADURA DO PNEU
ESKANER I KAPPEL SE GOMAVE
CHEKUP ZA PROTEKTOR NA TMI
SKENER BEHOUWI PNEUMATIK
SKENER PROFILA GUINE
DEKMONSTERSCANNER
REHYRISTIN SKANNER
REINKAAN KULTUUSPINNAN SKANNER
ZAPORTI / TEAMATOS / EAVTINON
CEKASKANNA
RIEPU PROTEKTORA SKENERS
RADANGULITEKTORALUS-SKATYLIUS
SKENER HA IAPITTE HA TUMATA
SKENER GAZECES GUJA GUJA
BANDENPROFIELSCANNER
SKANER BEZNIKA OPON
SKENER DEZENI A ANVEGRELOI
SKENER TEKARLE PLASTI PNEUMATIK
DÄCKSLUTBANDSKANNER
LASTIK 121 TAAKATISI

ENG - complies with the following ("I" is applicable)
FRA - est conforme aux/au ("I" is cas échéant)
DEU - entspricht folgenden Vorschriften ("I" falls zutreffend)
ITA - è conforme alle/ai seguenti ("I" se applicabili)
FIN - täyttää seuraavien määräysten ("I" jos sovelletaan)
NLD - is conform aan de volgende ("I" als van toepassing)
SWE - överensstämmer med följande ("I" tillämpligt)
DAN - overensstemmer med følgende ("I" hvis gældende)
ISL - samskræmt eftirfylgjandi ("I" ef við á)
POL - jest zgodny z następującymi przepisami ("I" jeżeli mają zastosowanie)
ROM - este conform cu următoarele dispoziții ("I" dacă se aplică)
SLO - je skladna z naslednjimi ("I" če so veljavni)
SLV - je skladna z naslednjimi ("I" če so veljavni)
ALB - përputhet me tërësi dispozitat ("I" nëse janë të zbatueshme)
HUN - megfelel az alábbi irányelveknek ("I" ha alkalmazható)

2014/30/EU 2006/42/EC
2011/65/EU 2014/53/EU*

ENG - The manufacturer - FRA - Le fabricant - DEU - Der Hersteller - ITA - Il fabbricante - POR - O fabricante - SPA - El fabricante
ALB - Produktori - BUL - Производител - CES - Výrobce - HRV - Posrednik - DAN - Fabrikanten - EST - Tootja - ROM - Producător
FIN - Valmistaja - ELL - Ο κατασκευαστής - SL - Tootmiskohand - LAV - Raattajien - LIT - Gamintojas - MKD - Upravljavac
MON - Proizvedilac - NLD - De fabrikant - POL - Producent - ROM - Producător - SLO - Moduliralec - SLV - Proizvajalec
SWE - Tillverkaren - TUR - Üretici - HUN - gyártó - RUS - Производитель

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ENG - is authorised to compile a technical leaflet in compliance with appendix VII, letter A, of the 2006/42/CE directive.
FRA - est autorisée à constituer le fascicule technique en vue sous l'annexe VII, lettre A, de la directive 2006/42/CE.
DEU - ist befähigt, die technischen Unterlagen zu erstellen (siehe Anhang VII, Buchstabe A der Richtlinie 2006/42/CE).
ITA - è autorizzato a compilare il fascicolo tecnico di cui all'allegato VII, lettera A della direttiva 2006/42/CE.
FIN - on valtuutettu laatimaan teknillinen dokumentti, jota on käytettävä VII liitteessä A:n mukaisesti.
NLD - is geautoriseerd te realiseren de technische documenten die voortvloeien uit de richtlijn 2006/42/EG.
SWE - är behörig att sammanställa tekniska dokumentation enligt med bilaga A till direktiv 2006/42/EG.
DAN - er bemyndiget til udarbejdelse af den tekniske dokumentation i henhold til bilag VII til direktiv 2006/42/EF.
ISL - er heimilað að samanstafa teknískan skýrslu samkvæmt VII lið A áttíðni 2006/42/EG.
POL - jest upoważniony do sporządzenia technicznego dokumentacji zgodnie z załącznikiem VII, litera A, dyrektywy 2006/42/WE.
ROM - este autorizat să compileze un fișier tehnic în conformitate cu anexa VII, litera A, a directivei 2006/42/CE.
SLO - je pooblaščen za sestavljanje tehnične dokumentacije skladno s prilogi VII, črta A, direktive 2006/42/ES.
SLV - je pooblaščen za sestavljanje tehnične dokumentacije skladno s prilogi VII, črta A, direktive 2006/42/ES.
ALB - është i autorizuar të realizojë fashikullin teknik sipas dokumentit bashkëngjitur VII përma A të direktivës 2006/42/CE.
HUN - jogosult a technikai leírásokat összeállítani az előírt VII melléklet A-ja szerinti követelményeknek.
ENG - is authorised to compile a technical leaflet in compliance with appendix VII, letter A, of the 2006/42/CE directive.
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SLV - je pooblaščen za sestavljanje tehnične dokumentacije skladno s prilogi VII, črta A, direktive 2006/42/ES.
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HUN - jogosult a technikai leírásokat összeállítani az előírt VII melléklet A-ja szerinti követelményeknek.

ITA - Direttore Operativo SPA-Director Operativo POR-Director Operacional ENG-Operations Manager FRA-Directeur Operatif
DEU-Betriebsleiter ALB-Drejtor Operativ BUL-Оперативен директор CES-Výkonný ředitel HRV-Operativni direktor DAN-Driftleder
EST-Tööstusjuht NLD-Operatieleider ITA-Direttore Operativo SL-Operatsiooni juht LAV-Raattajien johtaja LIT-Gamintojo
MKD-Operativni direktor MON-Operativni direktor POL-Dyrektor Operacyjny ROM-Director Operativ SLO-Vodilnik
RUS - Управляющий производством

Correggio (RE) - ITALY

date:

All Information in this manual has been supplied by the producer of the equipment:

Toutes les informations figurant dans le présent manuel ont été fournies par le fabricant de l'équipement :

Alle in diesem Handbuch enthaltenen Informationen wurden durch den Hersteller der Maschinen geliefert:

Вся информация, содержащаяся в данном руководстве, предоставлена производителем оборудования

Tutte le informazioni contenute nel presente manuale sono fornite dal produttore dell'apparecchiatura:

Todas las informaciones contenidas en este manual han sido facilitadas por el productor del equipo:

Todas as informações contidas neste manual foram fornecidas pelo produtor da máquina:

Snap-on Equipment Srl a unico socio

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1. About This Document

This manual describes how to commission and use TREADREADER™ DriveOver Surface Ramp EMEA ZEETD915AEA.

- Document name: **DriveOver Surface Ramp EMEA Operation Manual**
- Document number: **ZEETD915AEA2**



If you encounter any problems with the equipment, reach out to your distributor for help.

1.1. Revision History

Document No	Revision	Description	Date
ZEETD915AEA2	Rev 1.5	First draft version - new ISO template	2023-06
ZEETD915AEA2	Rev 2	First release version	2025-05
ZEETD915AEA2	Rev 3	GUI updates	2025-09-26

1.2. Abbreviations

In this manual the following abbreviations may occur.

ALPR	Automatic License Plate Recognition. A camera for reading license plates.
DO	DriveOver
EMEA	Europe, the Middle East and Africa
EULA	End User License Agreement
HD	Head
ID	Inner Diameter
IM	Installation Manual
IP67	An international dust and water protection code for electrical enclosures.
NA	North America
OD	Outer Diameter
OM	Operation Manual
POE	Power Over Ethernet
PT	Prevailing Torque
QTY	Quantity
SKT	Socket
SP	Spare Parts
TD	Tread Depth
TR	TreadReader

2. Safety

For your safety, read this manual thoroughly before installing, using or servicing this equipment.

The TreadReader DriveOver is intended for use by the public and/or automotive technicians. The safety precautions presented in this section and throughout the manual are reminders to exercise extreme care when working with this product.

It is assumed that, prior to using the TreadReader DriveOver, the installer has followed the installation instructions and has a thorough understanding of the system when serviced. In addition, it is assumed the installer has a thorough knowledge of the operation and safety features of the system and has the proper hand and power tools necessary to perform the installation.

2.1. Warning Types

The warnings are collected in three groups depending on its severity:

	DANGER means if the danger is not avoided, it will cause death or serious injury.
	WARNING means if the warning is not heeded, it can cause death or serious injury.
	CAUTION means if the precaution is not taken, it may cause minor or moderate injury.

2.2. Safety Precautions

When using your garage equipment, basic safety precautions should always be followed, including:

- Do not operate power tools or equipment with a damaged power cord or if the equipment has been dropped or damaged until it has been examined by a qualified person.
- Adequate ventilation should be provided when working on operating internal combustion engines.
- Keep hair, loose clothing, fingers, and all parts of body away from moving parts when/if applicable.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- Know and understand the proper operating procedures for all power tools used.

2.2.1. Laser Warnings

	WARNING
	Risk of eye injury or blindness
	Class 3R visible-light lasers are considered safe for unintentional eye exposure, because a person will normally turn away or blink to avoid the bright light. Do not deliberately look into or stare into the beam. This can cause injury to the retina in the back of the eye. Avoid direct eye exposure to direct and scattered radiation. Everyday eyeglasses are NOT safety glasses.
	Do not look directly into the laser beam. Make sure that no person is in the path of the laser beam during activation. Wear Safety Glasses.

This product contains Class 3R Laser product.

Description	Class 3R Laser product
Maximum output	5 mW
Pulse duration	CW
Wavelength	660/685 nm

2. Safety

2.2.2. Electrical Warnings

To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids, such as gasoline.

The socket-outlet (wall outlet) shall be located near the Electrical Cabinet and be easily accessible.



Make sure no cables get trapped or pinch by the metalwork during routing and installation.



DANGER

Risk of electric shock

Contact with high voltages can cause death or serious injury. All electrical connections must be carried out by a qualified electrician.

Make sure to plug in the unit into the correct power supply.

If an extension cord is necessary, a cord with a current rating equal to or greater than that of the equipment should be used. Cords rated for less current than the equipment can overheat.

Never use the cord to pull the plug from the outlet. Always grasp the plug and pull to disconnect.

Never remove or bypass the grounding pin.

Do not operate equipment with a damaged power cord or if the equipment has been dropped or damaged, until it has been examined by a qualified service person. Unplug the equipment from the wall outlet before maintenance.



DANGER

Risk of electric shock

Installation in areas of standing water or flooding is prohibited. Never expose the equipment to rain.

Hosing down of the ramps is allowed. Do not pressure wash under any circumstances.

2.2.3. Mechanical Warnings

	DANGER Risk of permanent injury or death Misuse of compressed air is highly dangerous and may cause permanent injury or death. Appropriate PPE (Personal Protective Equipment) like safety glasses, gloves and hearing protection must be worn when connecting and servicing the compressed air supply. Make sure compressed air is turned off and no air left in the system before starting any work. Wear Safety Glasses, Gloves and Hearing Protection.
	WARNING Risk of crush or pinch injuries When the shutter sensor is closing or opening the Camera Lid, there is a risk of pinch or crush injuries. Do not put fingers or other body parts inside the Camera Lid opening when the compressed air is enabled. Make sure compressed air is turned off and no air left in the system before starting any work. Wear Safety Gloves.
	WARNING Risk of lifting injuries Muscle strain or back injury from lifting heavy or improperly. For items of DriveOver Surface Ramp EMEA EETD915AEA that has a weight: Above 25 Kg, but less than 50 Kg (55/110 lbs) two or more persons may be required to lift or move the item. Above 50 Kg (110 lbs) lifting equipment is required. Bend your legs, keep your back as straight as possible, keep the load close to your body, grip the box or load at opposite corners.
	WARNING Risk of tripping Tripping over loose objects can cause fall injuries. If an extension cord is necessary, care should be taken to arrange the cord so that it will not be tripped over or pulled. All cables and air hoses on the floor should be secured and covered. Use the Floor Line Cover.
	WARNING Risk of crush or pinch injuries When closing the Mid-Section lid, there is a risk of crush or pinch injuries. There is a gas strut installed to keep the lid up. A mechanical stop prevents the lid to close fully. Close the lid by pushing it downwards while pulling its latch. Wear Safety Gloves.

2. Safety

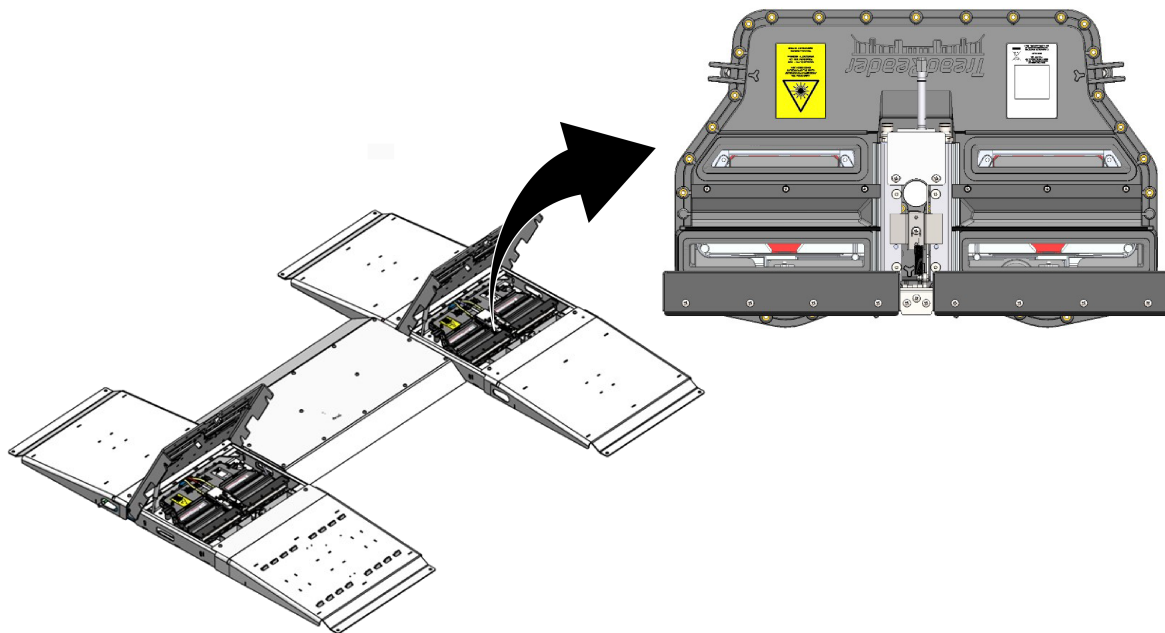
2.3. Placement of Safety Signs

2.3.1. Sensor Safety Signs

The following labels are found on the sensors mounted inside the TreadReader DriveOver Surface Ramp EMEA.

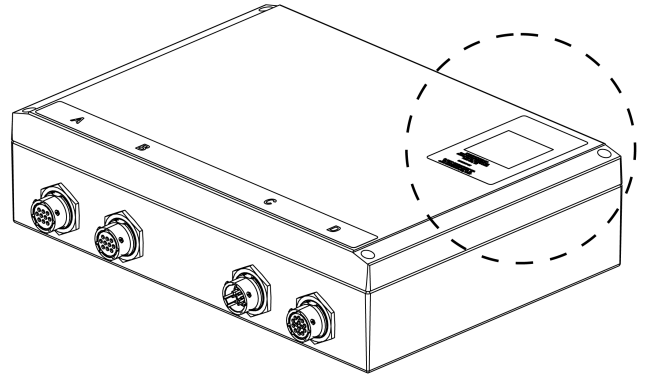
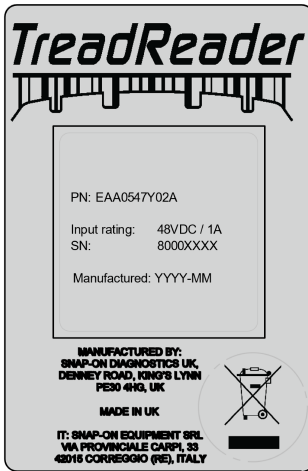


LASER APERTURE



2.3.2. Trigger Box Label

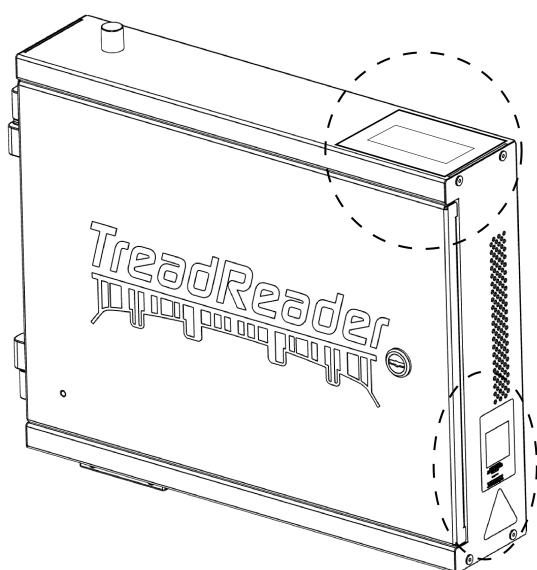
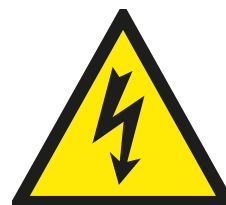
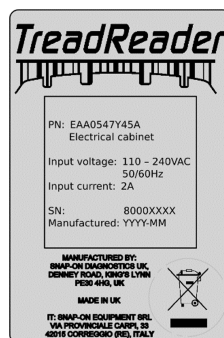
The following label is found on the Trigger Box.



2. Safety

2.3.3. Electrical Cabinet Safety Signs

The following labels are found on the Electrical Cabinet.



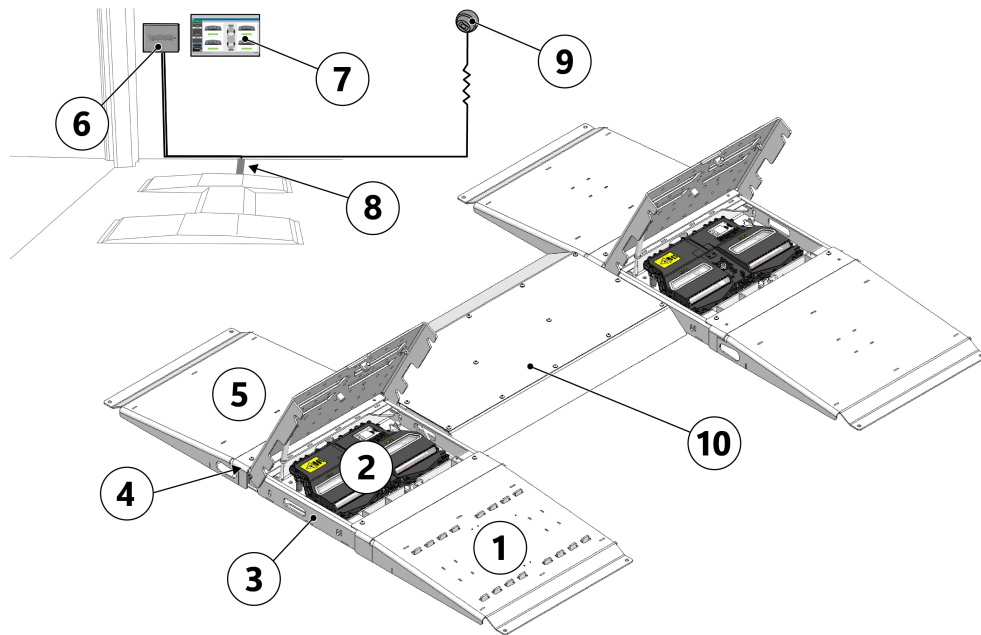
3. Machine Overview

Tread depth measurement occurs as the vehicle drives over the ramp. The rows of triggers sense the vehicle's direction and speed, and activate the tyre scan.

For the system to achieve a tyre scan, the vehicle must be driven over the ramp at speeds between 2.5 and 9 mph (4 and 15 km/h). Drive too fast or too slow, and the system may fail to measure accurate data.

The captured data is transferred to the TREADREADER computer software, which analyses it, calculates tread depth, displays 3D images and operator recommendations

Tyre scans can be uploaded to the TREADMANAGER™ web service for storage and later analysis. During the initial setup, the thresholds are set in TreadReader, but updates to the settings are done from TreadManager.



1	Trigger Ramp	6	Electrical Cabinet
2	Sensors	7	Monitor (mouse and keyboard) <i>Optional</i>
3	Mid-Section	8	Floor Line Cover
4	Interface Bracket	9	ALPR Camera
5	Drive-Up Ramp (without triggers)	10	Centre Ramp with Trigger Box inside

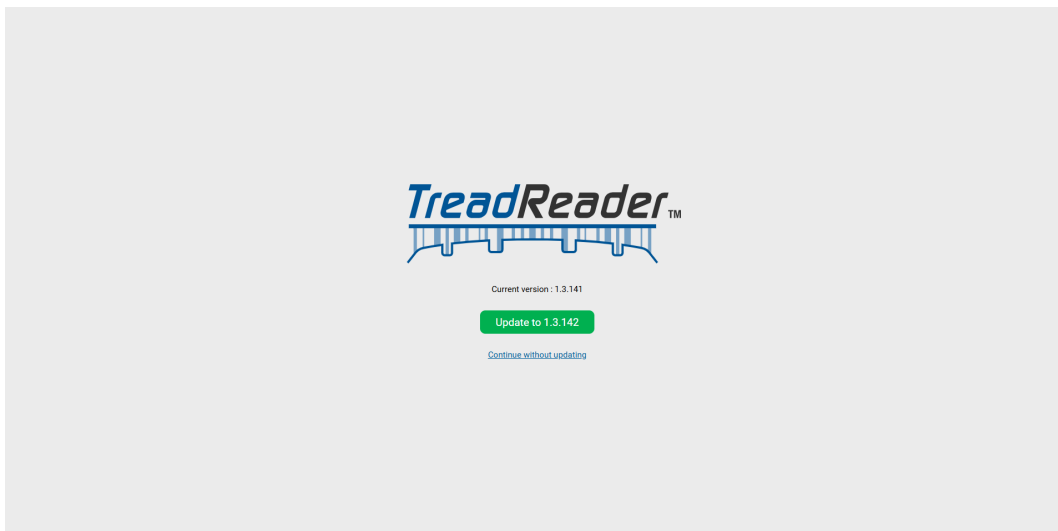
4. Commissioning

This chapter will guide the user through the necessary steps to get the equipment up and running.

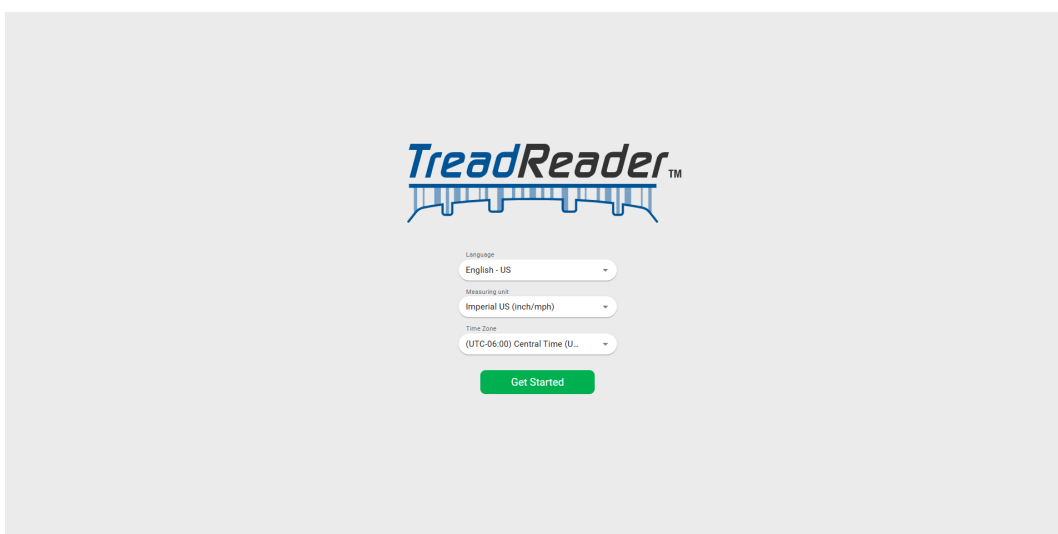
4.1. Ramp Setup

When the system is powered up, the current software version is shown. It will automatically check for available updates. If an update is available, the system will prompt the user to update the system.

1. Power up the system.
2. Select whether to **update** the software **or** to **skip** the available update.



3. Select **Language**, **Measurement unit** and **Time zone**.
4. Click **Get Started**.

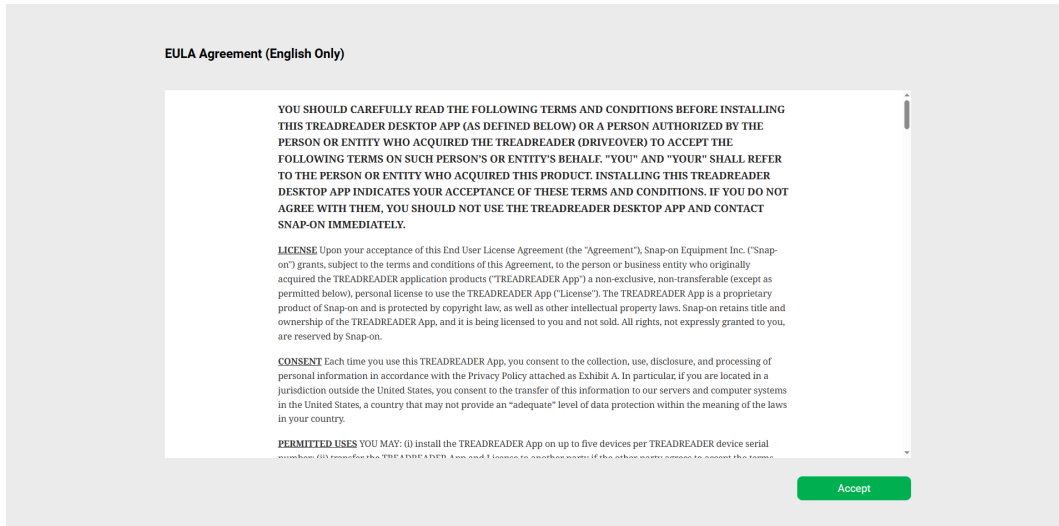


5. Read the **End User License Agreement (EULA)**.



Only available in English.

6. Click **Accept**. It must be accepted before the system can be used.

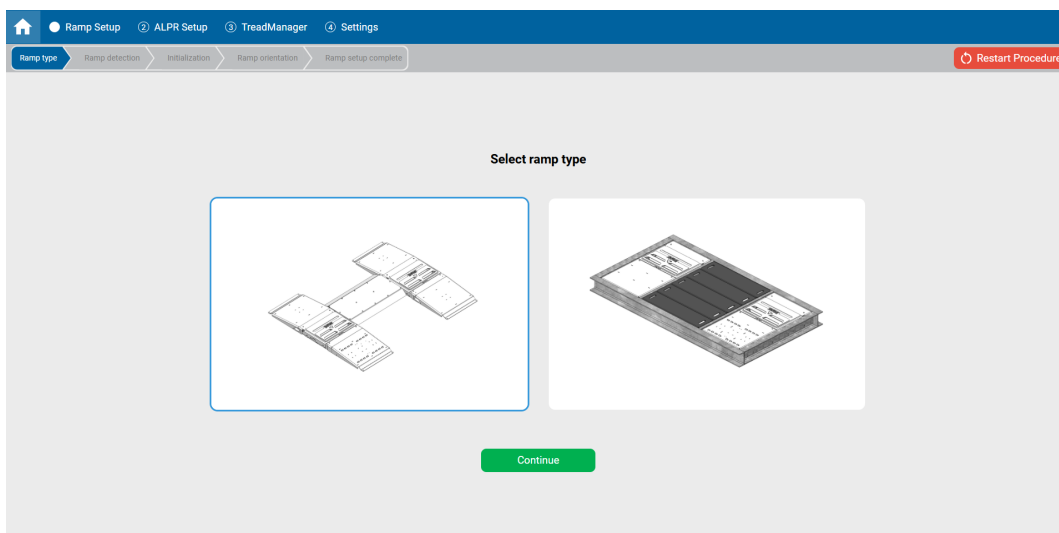


7. Select the ramp type to be used: **Surface Ramp** or **Flush Ramp**.

8. Click **Continue**.



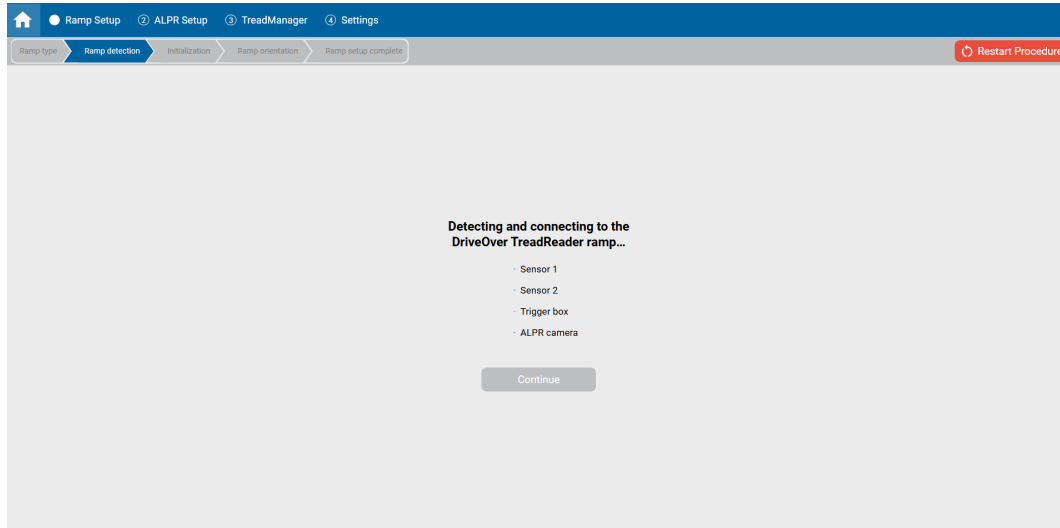
If you need to redo the settings, click **Restart Procedure** in the upper right corner.



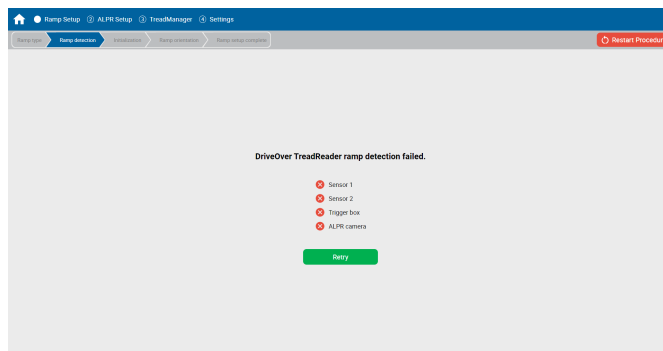
4. Commissioning

9. The system will now detect the digital parts of the system:

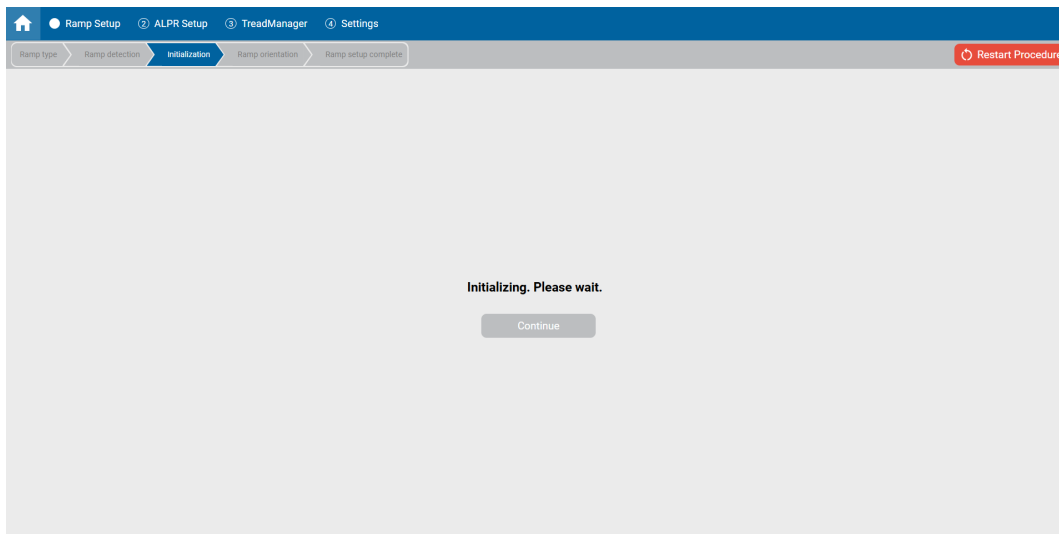
- Two **Sensors** that scans the tyres.
- One **Trigger box** that initiates the scan.
- One **ALPR camera** that reads the license plate.



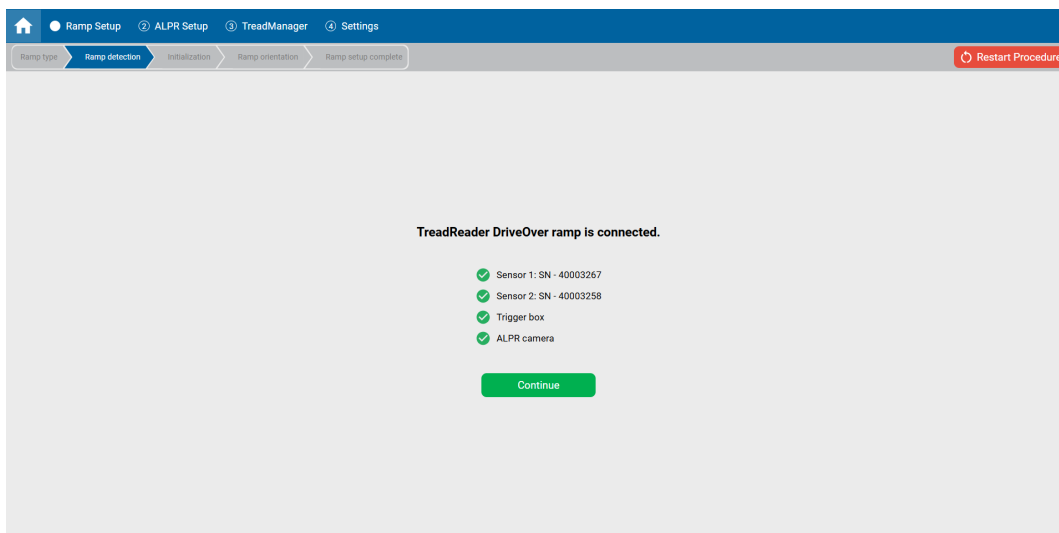
In case the detection process fails, please check all the parts and cables are properly connected and click **Retry**.



10. Once the system has detected all parts, it will initialize the sensors and the trigger box.



11. Click **Continue** when the DriveOver ramp is connected.

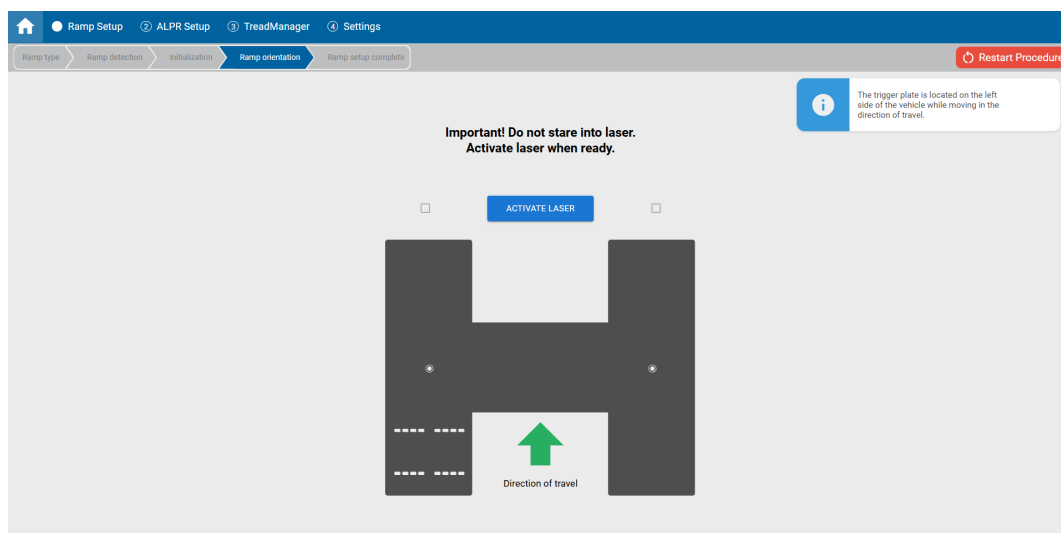


4. Commissioning

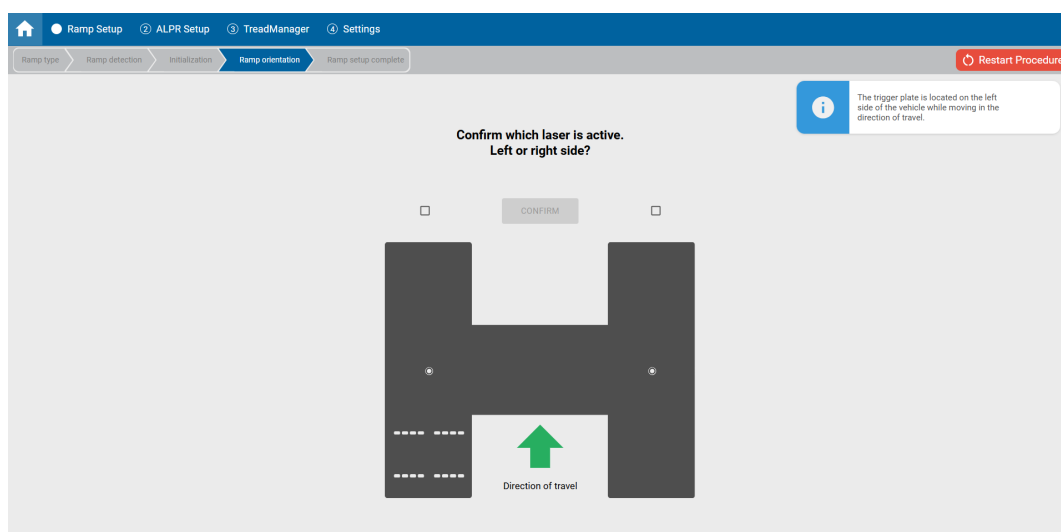
12. Place something on top of the sensors, to be able to see the laser and shield other people.

	WARNING
	Risk of eye injury or blindness
	Class 3R visible-light lasers are considered safe for unintentional eye exposure, because a person will normally turn away or blink to avoid the bright light. Do not deliberately look into or stare into the beam. This can cause injury to the retina in the back of the eye. Avoid direct eye exposure to direct and scattered radiation. Everyday eyeglasses are NOT safety glasses. Do not look directly into the laser beam. Make sure that no person is in the path of the laser beam during activation. Wear Safety Glasses.

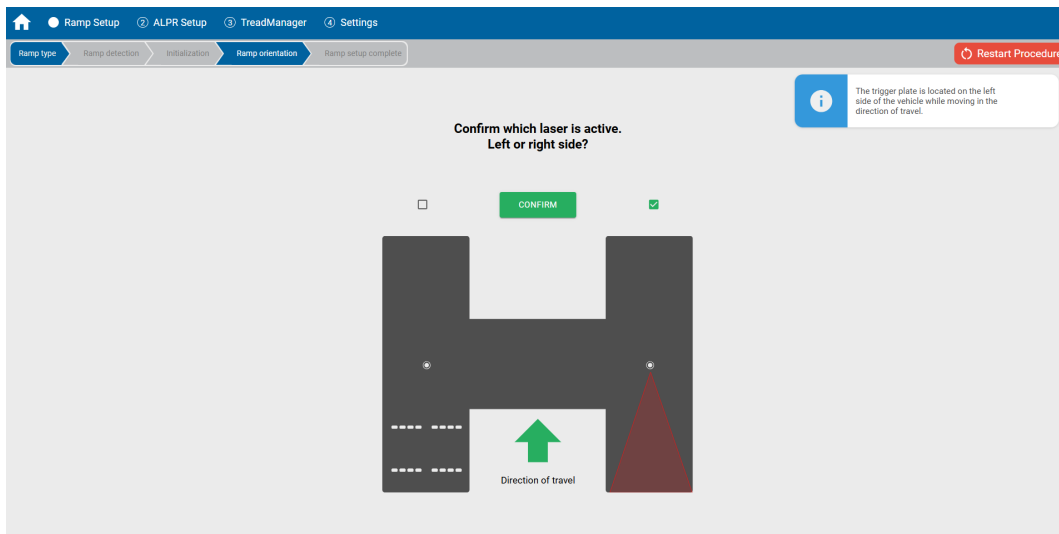
13. Click **Activate laser**.



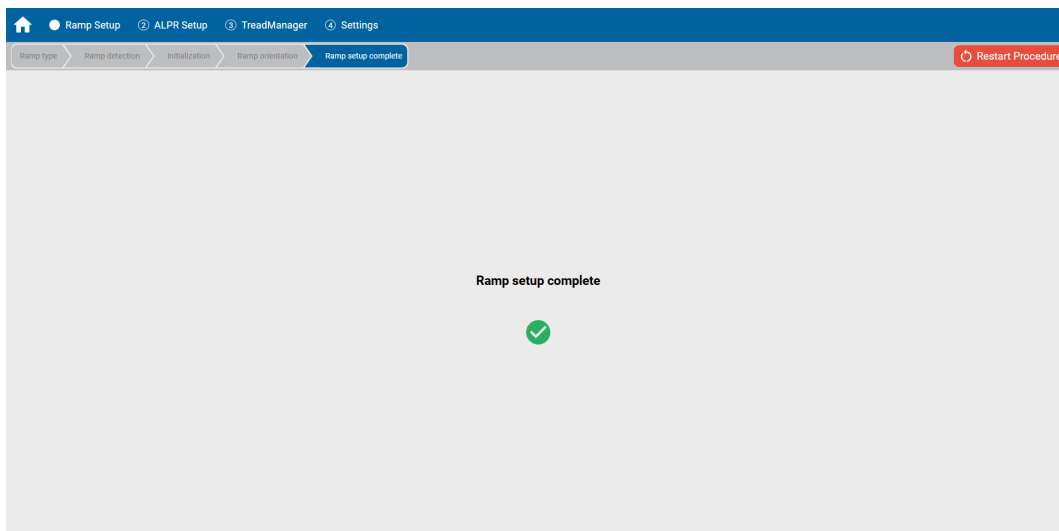
14. Tick the checkbox for the activated laser.



15. Click **Confirm**. The system will save the orientation and turn off the laser.



The installation of the ramp is completed.

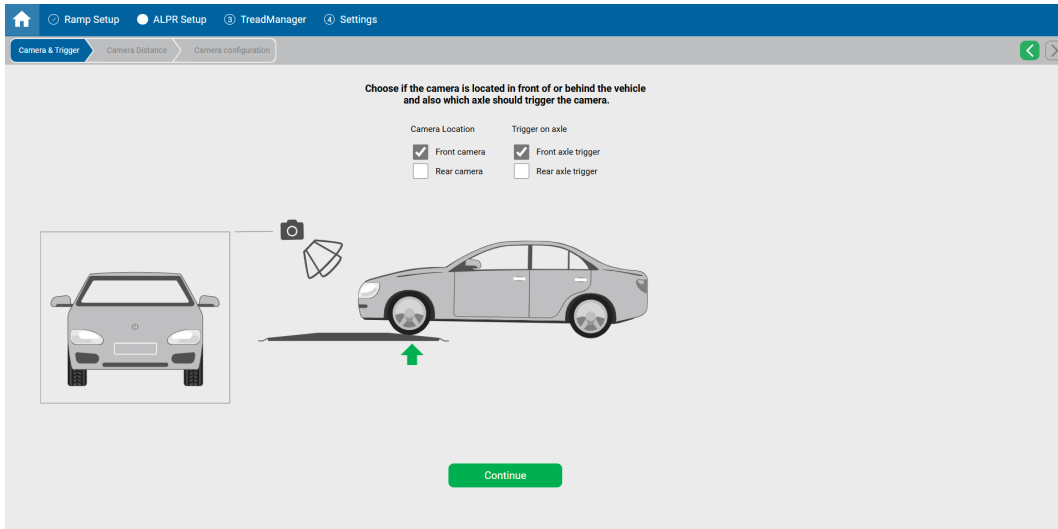


4. Commissioning

4.2. Camera Setup

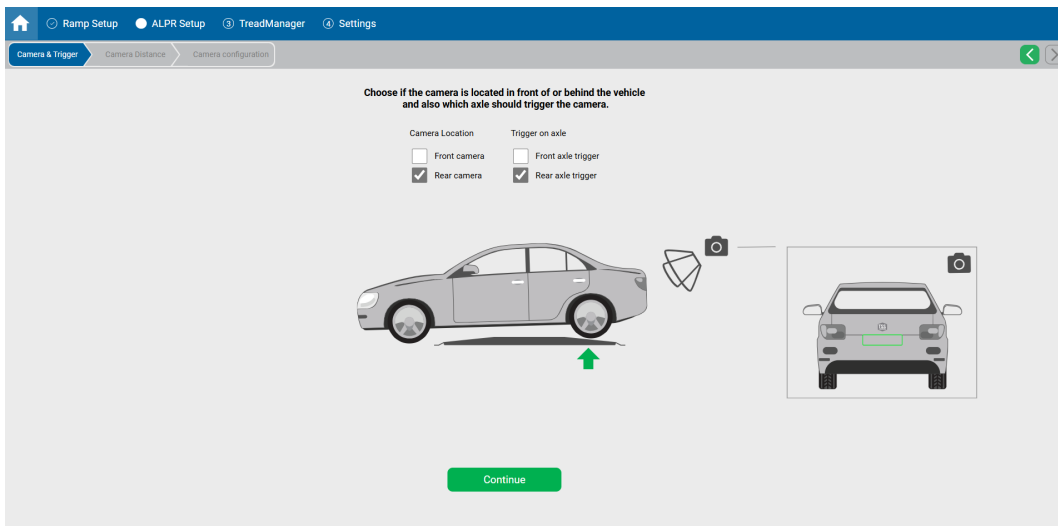
This section will set the camera position and help the ALPR system (Automatic License Plate Recognition) to define the reading area for the license plate in the camera view. Once the reading area is selected, the user can test the license plate detection.

1. Select if the camera is located at the **front** or **rear** of the vehicle.



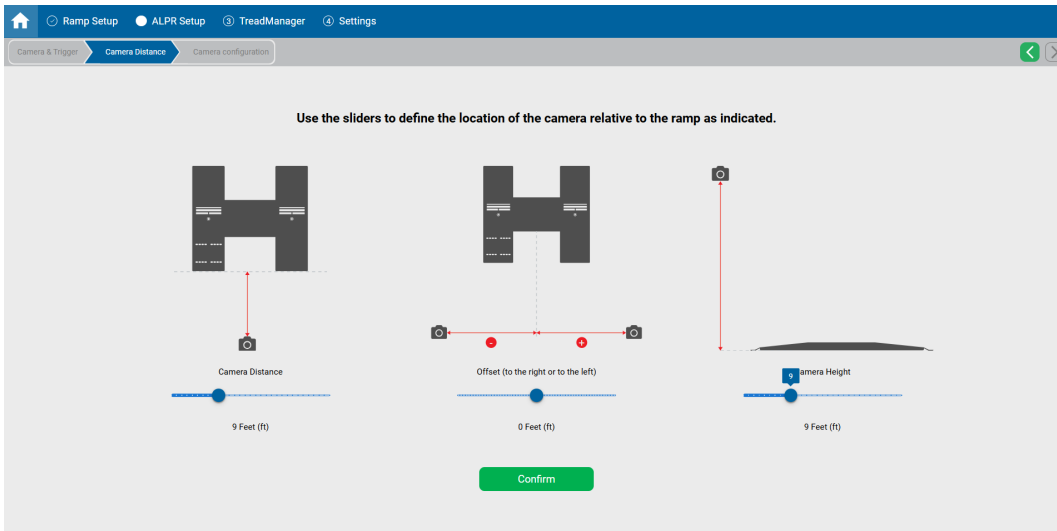
The example above shows the front camera and front axle trigger, being selected.

2. Select whether the **front axle** or **rear axle** activates the trigger when it runs over the ramp. This activates both the ALPR camera and the sensors.

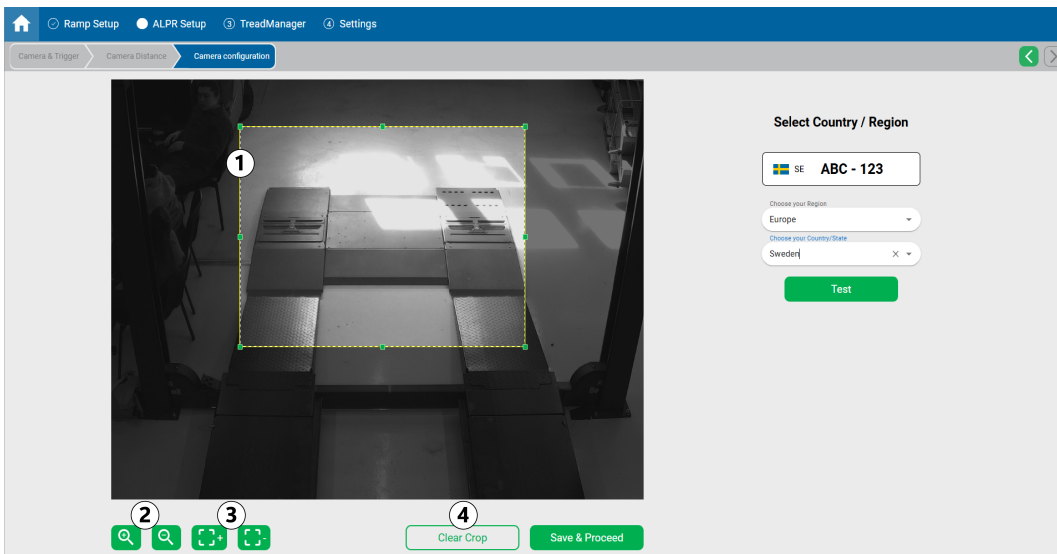


The example above shows the rear camera and rear axle trigger, being selected.

3. Use the sliders to define the location of the camera relative to the ramp.
 - **Camera Distance** is measured from the centre of the camera to the centre of the ramp.
 - **Offset** is measured from the centre of the ramp to the centre of the camera.
 - **Camera Height** is measured from the floor.
4. Click **Confirm**.



5. Drag and drop the **Crop area** (1) to roughly centre the reading area.
6. Drag the green corner boxes on the crop area to **fine-tune** the reading area.
7. Use the **Zoom** buttons (2) to adjust the target distance.
8. Use the **Focus** buttons (3) to sharpen the image.



1	Crop area / Reading area	3	Focus In / Focus Out
2	Zoom In / Zoom Out	4	Reset the crop area

4. Commissioning



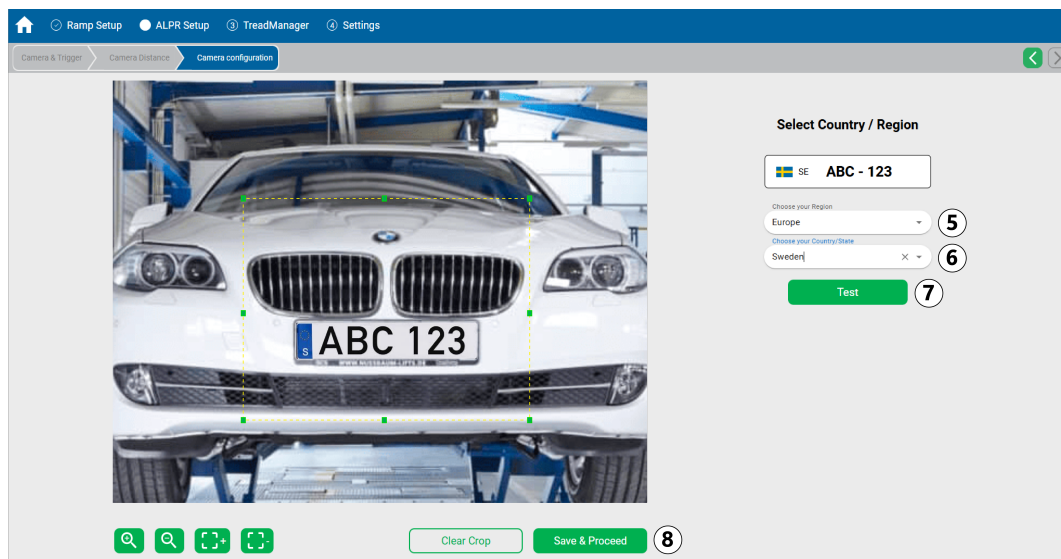
Exclude other license plates that might be present in the reading area (like parked vehicles near the ramp). If the reading area is **too small**, the license plate might not to be detected.

9. Select **Region** (5) from the dropdown menu.
10. Select **Country** (6) from the dropdown menu (not applicable when US is selected).
11. Position a vehicle on the ramp.
12. Click **Test** (7) to verify that the camera reads the license plate. If not, adjust the crop area.



The test will only work if the internet connection is available and ALPR server is reachable.

13. Click **Save & Proceed** (8).



5	Select Region	7	Test the function
6	Select Country	8	Save the configuration.

4.3. TreadManager Setup

TreadManager is a cloud-based system that stores all the scans of the tyres. The user is required to log in to be able to upload scans to TreadManager.

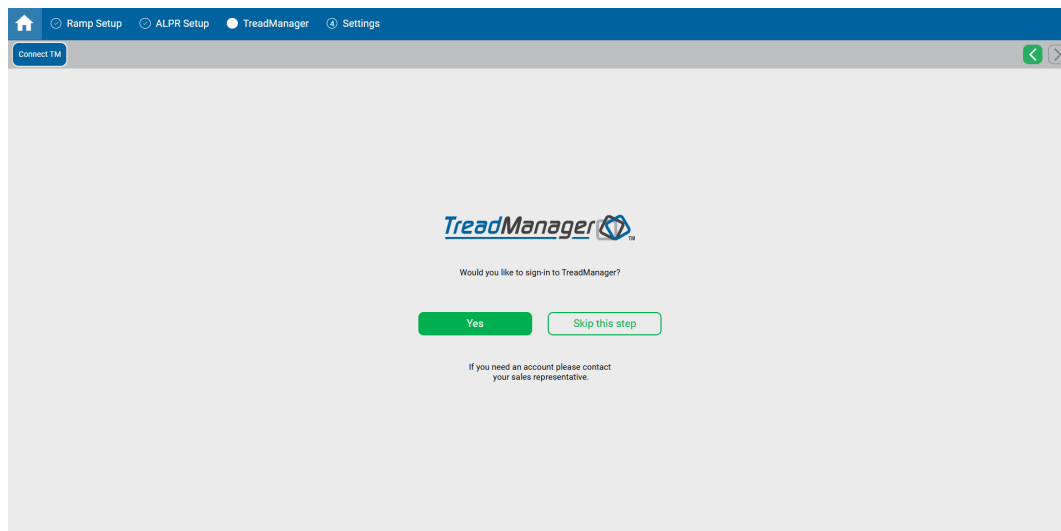


Contact the Distributor or Sales representative to acquire a TreadManager account. Make sure that the account is set to **workshop role**.

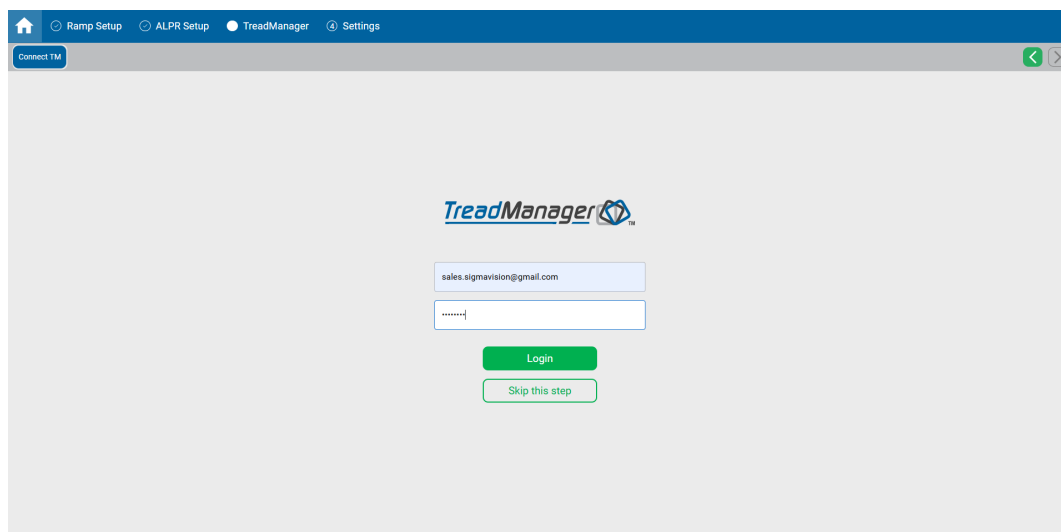
1. Click **Yes** to log in to TreadManager.



If this step is skipped, the user is directed to **Set Thresholds**.



2. Enter **Email and Password**.
3. Click **Login**.



4. Commissioning

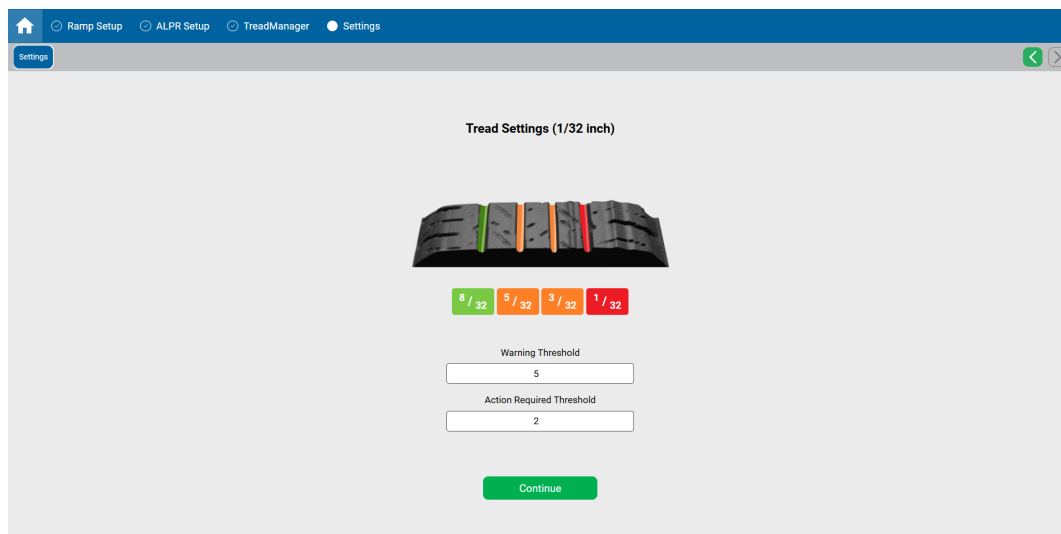
4.4. Set Thresholds

Thresholds are limits that the system uses to color the tyre scans, depending on measured tread depth.

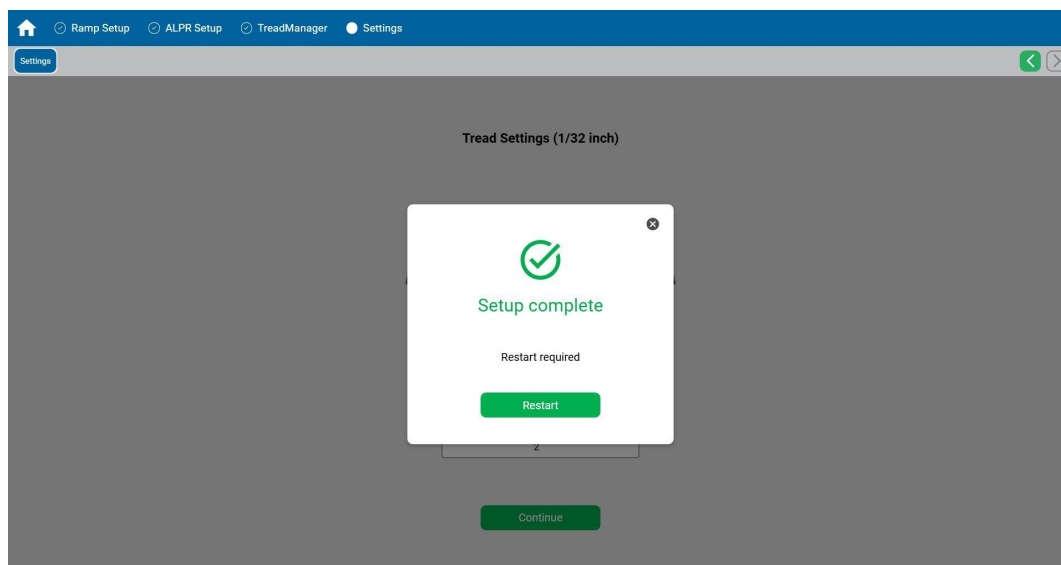
By changing the thresholds, the tread colouring will change accordingly. Depending on the unit selected the thresholds will be in **mm** or **32nds on an inch**.

If the user has logged in to TreadManager, in previous step, the thresholds will be automatically synced from the TreadManager account.

1. Enter a **Warning Threshold** value that will be visualised in **orange**.
2. Enter a **Action Required Threshold** value that will be visualised in **red**.
3. Click **Continue** to finalise the settings.



4. Click **Restart** and the system will restart to complete the settings.



5. Get Started

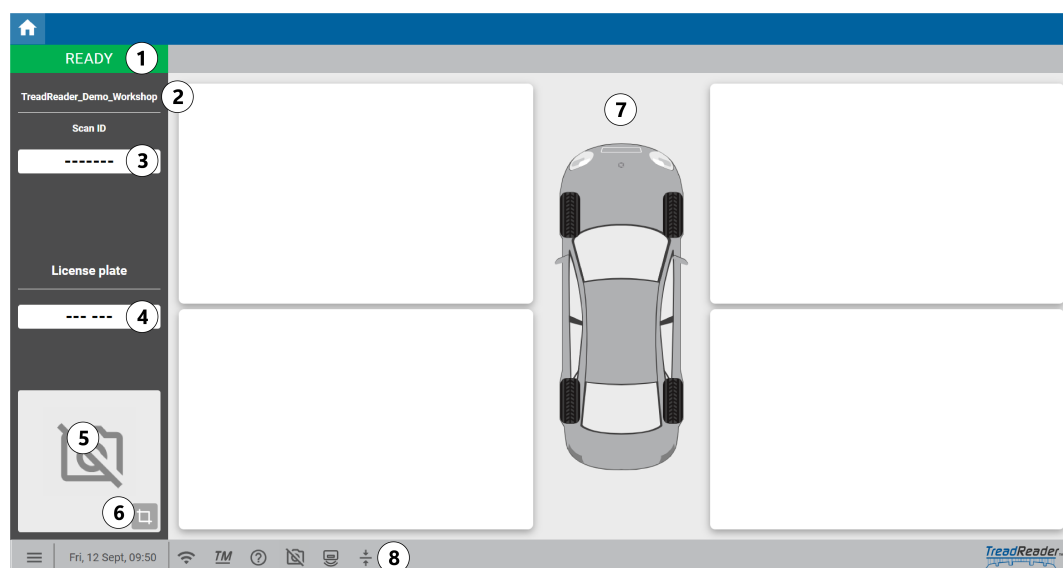
This section provides information about user menus and settings.

5.1. Main Page Overview

When the system setup is done, the user will be directed to the main page. This is the working area for the user. How the information is displayed can be altered with 4 different views, see **Adjust Preferences**.

The system can be in one of the following states:

READY	System is ready to scan. Visualised in green .
INITIALIZING	System is starting up. Visualised in orange .
LOADING	System is loading configuration. Visualised in orange .
SCAN IN PROGRESS	System is processing the scan. Visualised in orange .
RECONNECTING	System is trying to reconnect with the disconnected sub process. Visualised in orange .
ERROR	System has encountered an error. Visualised in red .



1	System Status Indicator	5	Snapshot of the vehicle
2	Workshop ID	6	Snapshot icon. Toggle between full camera view or reading area
3	Scan ID (appears when uploaded to TM)	7	Main Page View
4	Detected License Plate	8	Footer

During the scan, the snapshot is used to read the license plate. Toggle the snapshot icon to switch between **Full Camera View** and **Reading Area**. The icon switches depending on current view.

Icon	Current	If clicked
	Shows Full Camera View	Switches to Reading Area
	Shows Reading Area	Switches to Full Camera View

The footer is always visible. Some of the footer icons are used to indicate the status of various system components. Crossed out icons means that all or any of the components within the group are not functioning properly or missing.

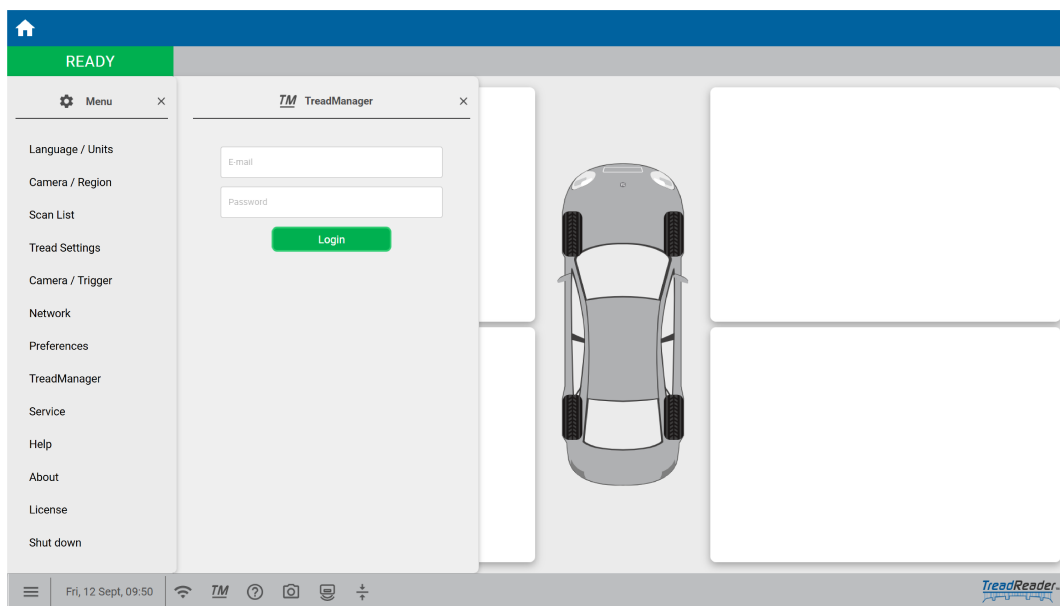
Icon	Description
	Settings opens the settings menu. If clicked when showing the settings menu, it returns to the main page. When a red dot appears on it, an update of the DriveOver application is available.
	Network icon shows the status of the network connections, such as the connection to the TreadReader Ramp, service reachability for TreadManager and ALPR. ● TreadManager ● ALPR Server ● TreadReader
	TreadManager icon shows whether the user is logged in to TreadManager or not.
	Help icon opens the Operation Manual.
	Camera icon shows the status of the camera.
	Sensor icon shows the status of the sensors (both sensor status and serial number). ● Sensor 1 - 40003258 ● Sensor 2 - 40003267
	Trigger values shows the trigger values. Both shutter and sensor values need to be green or yellow for the system to be able to scan properly. ● Shutter trigger: 774.91 ● Sensor trigger: 876.07

5.2. Login to TreadManager



The system will store scans up to 80 % of the storage capacity. If the system is not logged in to TreadManager or missing Internet connection, the system will remove the oldest scan when the threshold of 80 % is exceeded. When the user logs in, the stored scans will automatically be uploaded to TreadManager.

1. Click the **Settings** icon in the lower left corner. 
2. Click **TreadManager** in the menu.
3. Enter **Email and Password**.
4. Click **Login**.
5. Click the **Settings** icon to return to the main page.



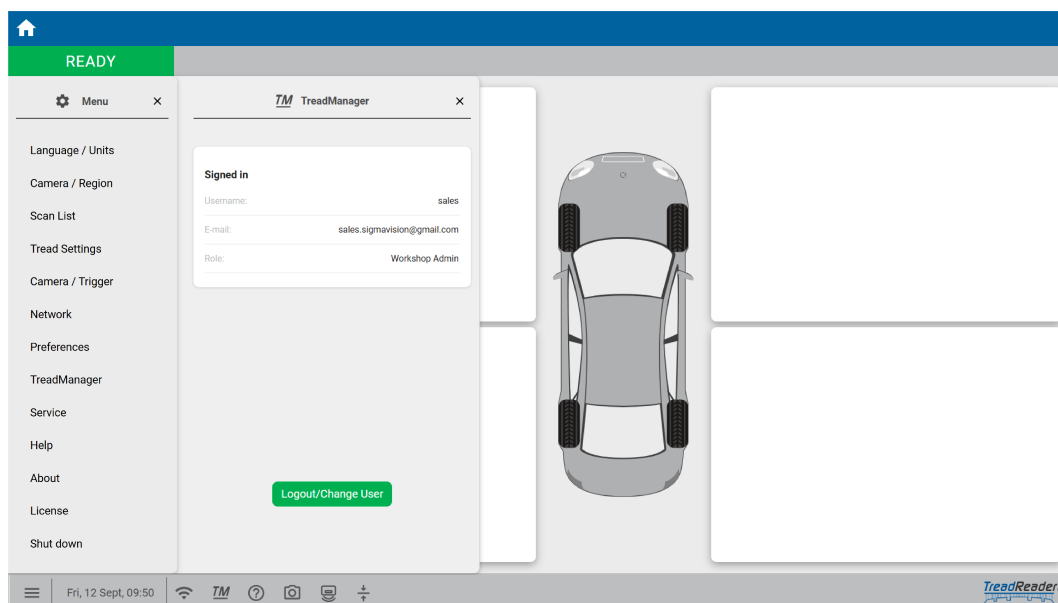
5.3. Logout from TreadManager

The user can logout from TreadManager to switch user.



The system will store scans up to 80 % of the storage capacity. If the system is not logged in to TreadManager or missing Internet connection, the system will remove the oldest scan when the threshold of 80 % is exceeded. When the user logs in, the stored scans will automatically be uploaded to TreadManager.

1. Click the **Settings** icon in the lower left corner. 
2. Click **TreadManager** in the menu.
3. Enter **Email and Password**.
4. Click **Logout / Change**.
5. Click the **Settings** icon to return to the main page.



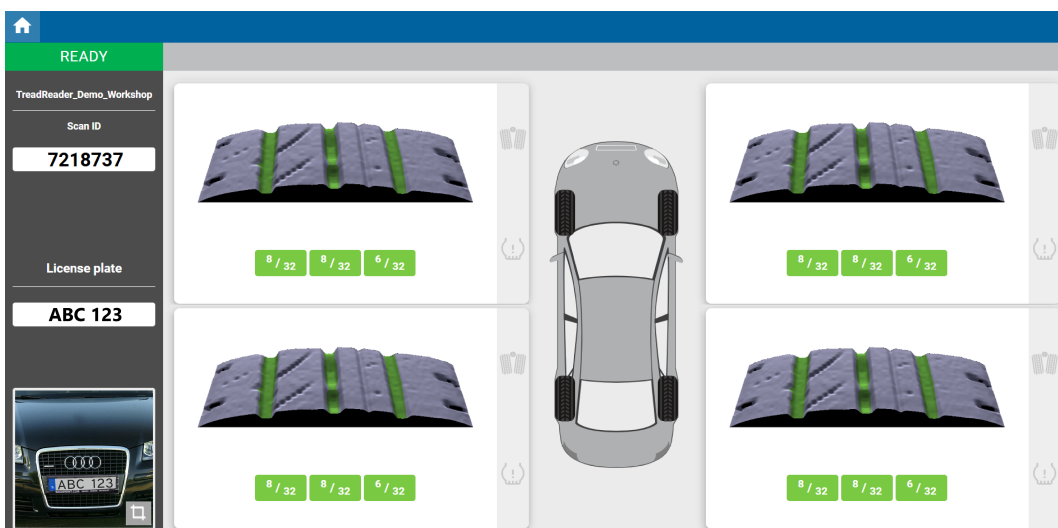
5.4. Scan the tyre

If logged in to TreadManager, the workshop name will be displayed in the upper left corner. If not, a login button is displayed. A snapshot of the vehicle is displayed during the scan to detect the license plate. The vehicle must pass the sensors in the correct speed for the system to scan the tyres. A correct speed is between 2.5 and 9 mph (4 and 15 km/h). Driving slower or faster the system will fail to present a measurement. The **Scan ID** appears when the scan is successfully uploaded to TreadManager.



The system will store scans up to 80 % of the storage capacity. If the system is not logged in to TreadManager or missing Internet connection, the system will remove the oldest scan when the threshold of 80 % is exceeded. When the user logs in, the stored scans will automatically be uploaded to TreadManager.

1. Log in to TreadManager, if the login button is displayed.
2. Drive the vehicle over the ramp at a speed of **2.5 and 9 mph (4 and 15 km/h)**.
3. The detected license plate and the tyre scans appear on the LCD Monitor.
4. To print the scan, see **View the Scan List**.



WARNING

Risk of eye injury or blindness

Class 3R visible-light lasers are considered safe for unintentional eye exposure, because a person will normally turn away or blink to avoid the bright light. Do not deliberately look into or stare into the beam. This can cause injury to the retina in the back of the eye. Avoid direct eye exposure to direct and scattered radiation. Everyday eyeglasses are NOT safety glasses.

Do not look directly into the laser beam. Make sure that no person is in the path of the laser beam during activation. Wear Safety Glasses.



5.5. View the Scan List

The user can view a list of recent scans and generate printable tyre reports. The reports are translated according to the software language setting. Once the scan is successfully uploaded to TreadManager, it will be provided with a TreadManager **Scan ID**.



The system will store scans up to 80 % of the storage capacity. If the system is not logged in to TreadManager or missing Internet connection, the system will remove the oldest scan when the threshold of 80 % is exceeded. When the user logs in, the stored scans will automatically be uploaded to TreadManager.

1. Click the **Settings** icon in the lower left corner.
2. Click **Scan List** in the menu.
3. Select a scan from the list to open the tyre report.

Date/Time	TreadManager ID	Registration	Tires	Speed(MPH)
Tue, Mar 18, 10:11 AM	--		4 (0)	6.3,4.5
Mon, Mar 17, 01:17 PM	7216405	ABC 123	4 (2)	4.0,4.3
Mon, Mar 17, 01:07 PM	7216399	CBA 321	4 (1)	2.3,3.2
Mon, Mar 17, 01:06 PM	7216397	BCA 213	4 (1)	2.5,2.7
Mon, Mar 17, 11:49 AM	7216396	ACB 132	4 (1)	3.0,1.7
Mon, Mar 17, 11:48 AM	7216395	BCA 231	4 (2)	2.9,3.3
Mon, Mar 17, 11:24 AM	7216394	ABC 123	4 (2)	2.9,3.5
Mon, Mar 17, 11:24 AM	7216392	CBA 321	4 (2)	2.6,3.0
Mon, Mar 17, 10:28 AM	7216391	ABC 123	4 (2)	3.0,3.0
Mon, Mar 17, 10:27 AM	7216389	BCA 213	4 (2)	3.1,3.1

4. The tyre report can be printed both from this view and from TreadManager.
5. Click the **Settings** icon to return to the main page.

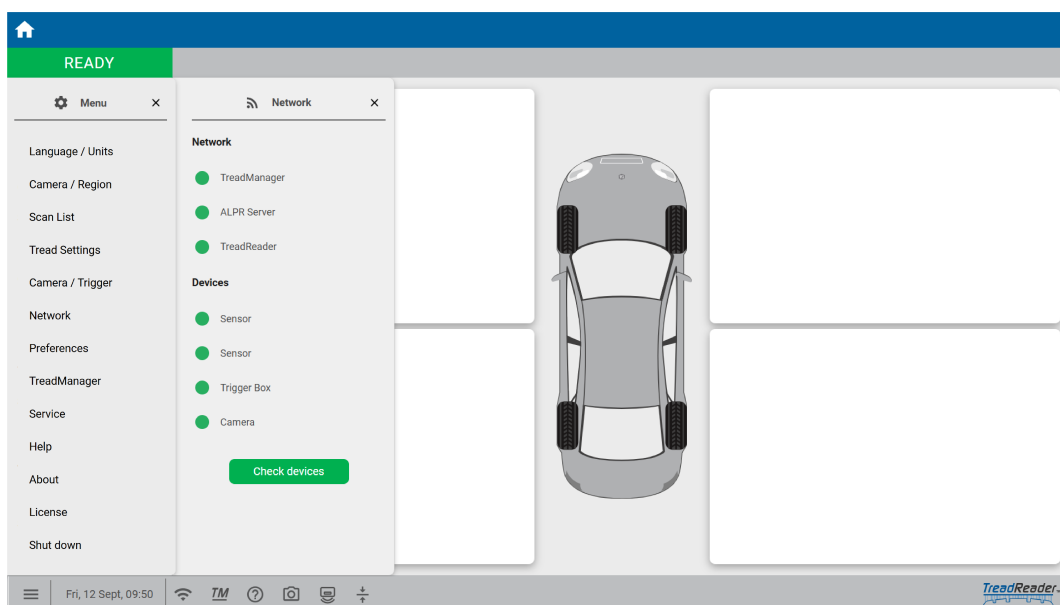
Registration	Tires	Speed(MPH)
MLB844	4 (2)	2.3,2.2
MLB844	4 (2)	2.5,2.2
	4 (2)	2.5,2.1
	4 (2)	2.6,2.4
	4 (2)	2.6,2.7
	4 (2)	2.5,2.1
	4 (2)	2.6,2.8
	4 (2)	2.5,1.8
ABC123	4 (2)	1.7,1.6

5. Get Started

5.6. Check Network & Devices

The user can check the network connection to each device and service.

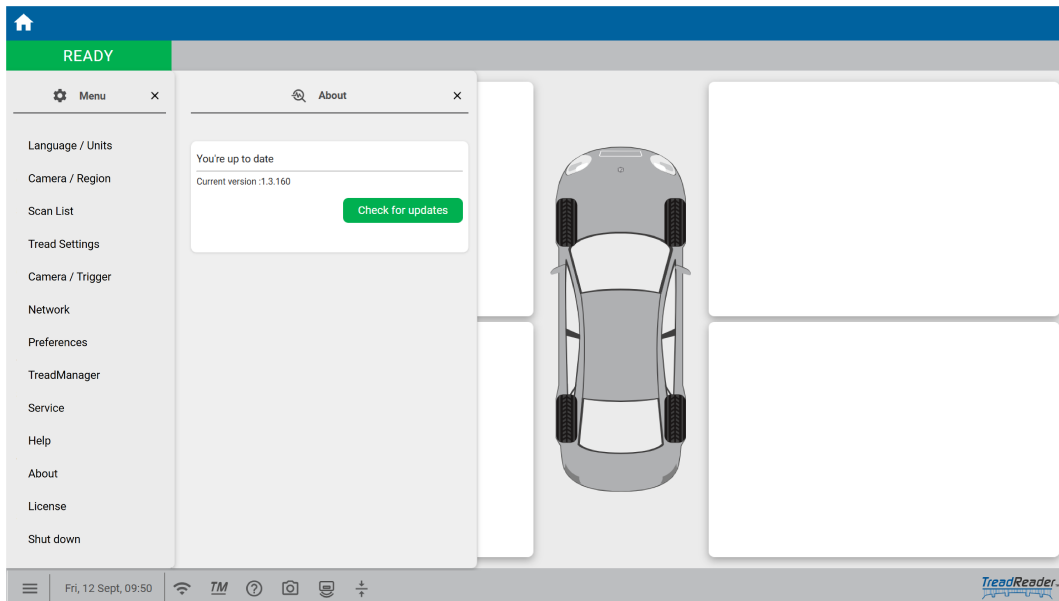
1. Click the **Settings** icon in the lower left corner. 
2. Click **Network** in the menu.
3. Click **Check Devices** to perform a connection test.
 - **Green** means that the connections are working.
 - **Red** means that connections are failing. Inspect the device connections and restart the computer.
4. Redo **Check Devices**.
5. Click the **Settings** icon to return to the main page.



5.7. Check for System Updates

The user can check if the system is up to date and update if necessary. Do not use the system while updating. The update is completed with a system restart.

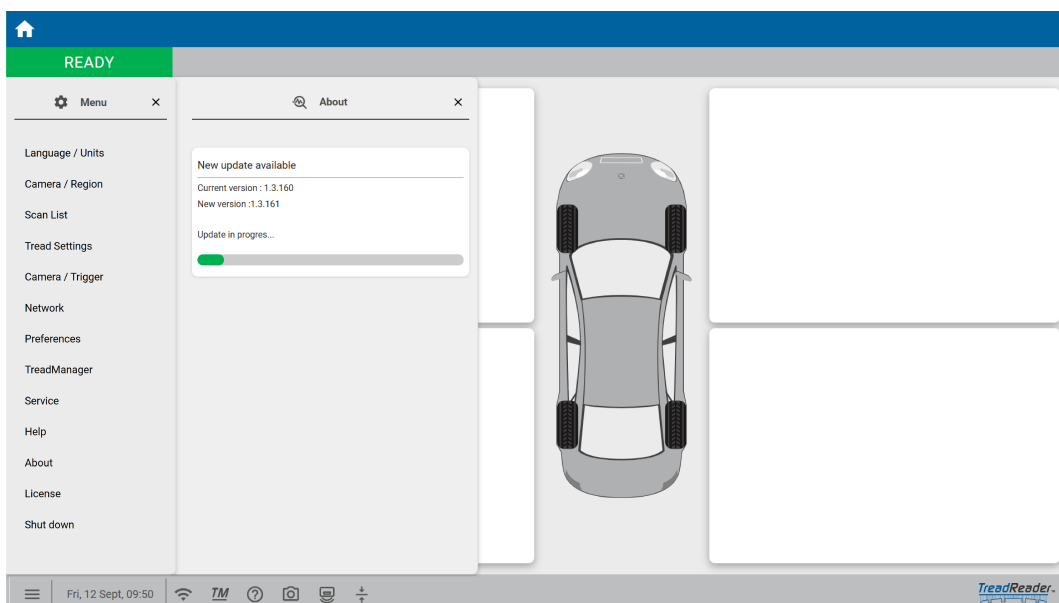
1. Click the **Settings** icon in the lower left corner. 
2. Click **About** in the menu.
3. Click **Check for updates**.



4. If an update is available, click **Update**.
5. Wait for the update to be completed. The software will restart itself.



If the system behaves unexpectedly after the update, restart the computer.

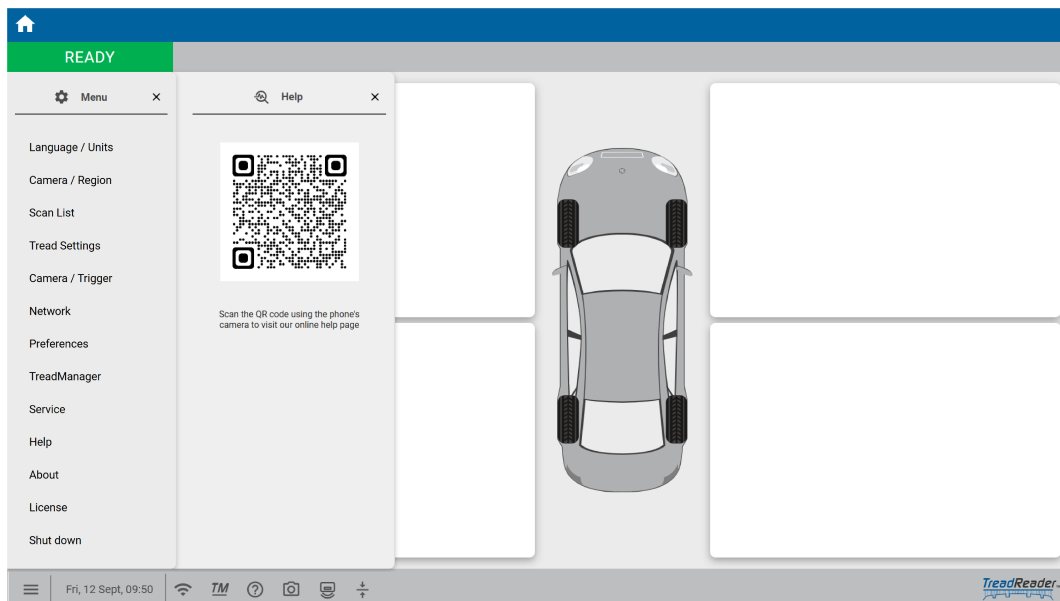


5. Get Started

5.8. Get Help

The user can access help and support links using the QR code.

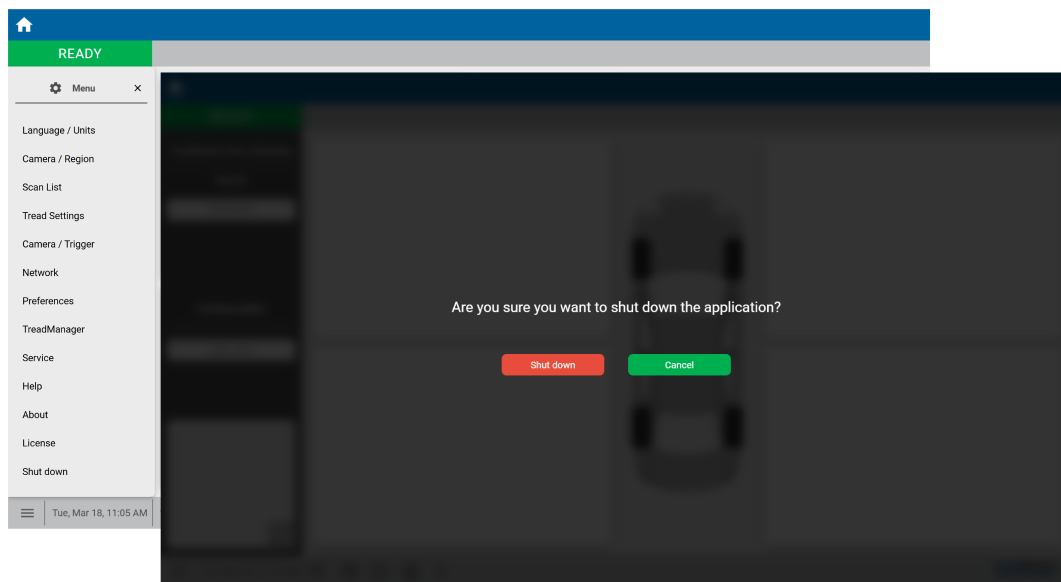
1. Click the **Settings** icon in the lower left corner. 
2. Click **Help**.
3. Scan the **QR code** with a smartphone.
4. Tap the link that appears on the smartphone to access the online help pages.
5. Click the **Settings** icon to return to the main page.



5.9. Close the Application

The following procedure will close the application. The computer will not be turned off.

1. Click the **Settings** icon in the lower left corner. 
2. Click **Shut down** in the menu.
3. Click **Shut down** to close the application and logout the user.

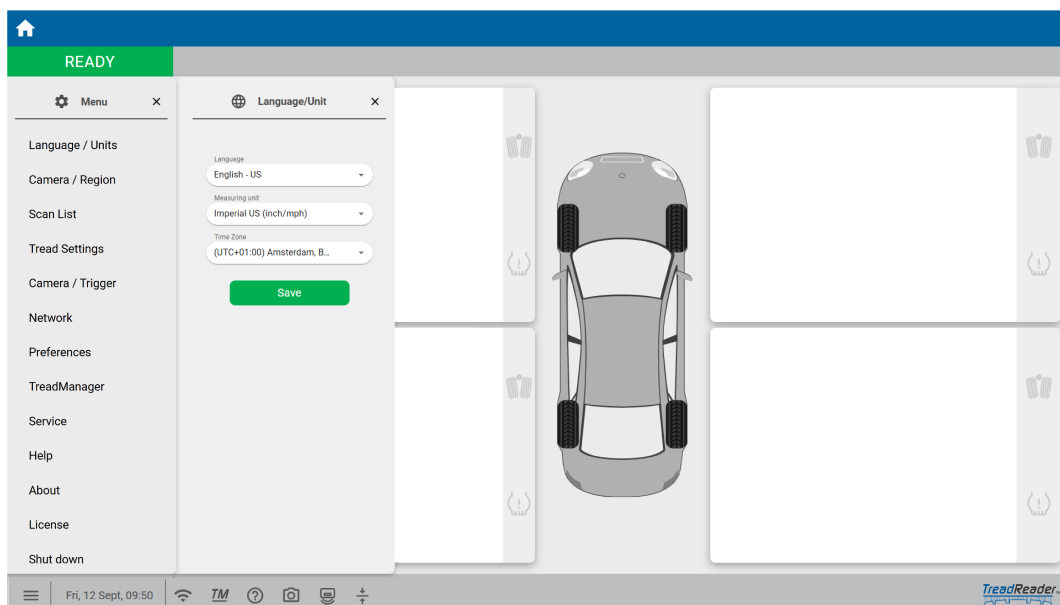


6. Settings

6.1. Adjust Language / Units

The system language, measurement units and time zone are initially set during the first time setup, but can be updated at any time.

1. Click the **Settings** icon in the lower left corner. 
2. Click **Language / Units** in the menu.
3. Select a **Language** from the dropdown menu.
4. Select a **Measuring Unit** from the dropdown menu.
5. Select a **Time Zone** from the dropdown menu.
6. Click **Save**.
7. Click the **Settings** icon to return to the main page.



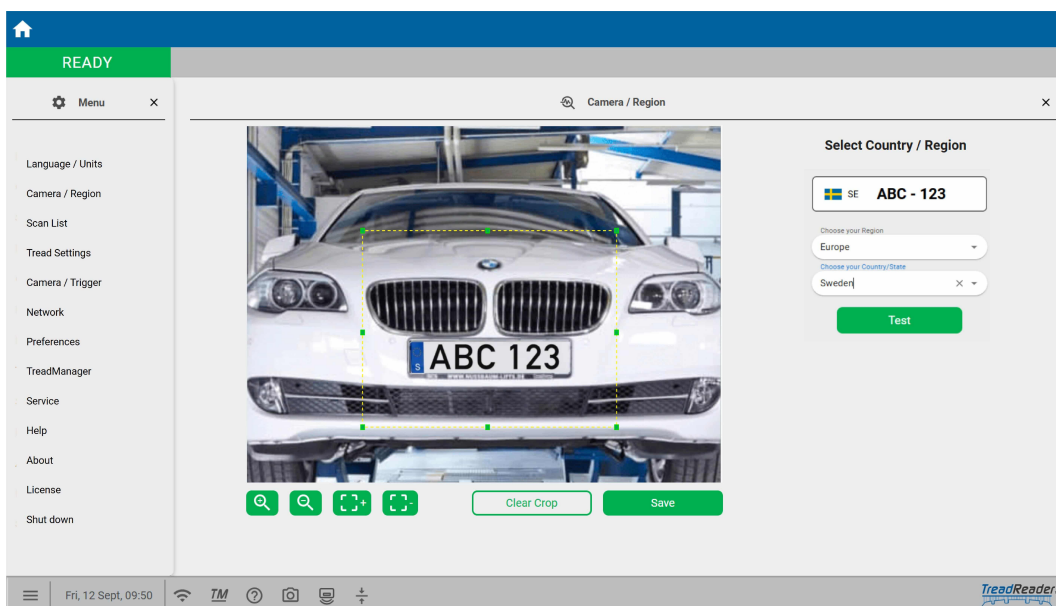
6.2. Adjust Camera / Region

The crop area, region and country are initially set during the first time setup, but can be updated at any time.



Exclude other license plates that might be present in the reading area (like parked vehicles near the ramp). If the reading area is **too small**, the license plate might not be detected.

1. Click the **Settings** icon in the lower left corner. 
2. Click **Camera / Region** in the menu.
3. Drag and drop the crop area itself, to set the **reading area**.
4. Drag the corners of the crop area to **focus** on the license plate (or use the focus buttons).
5. Use the **zoom** buttons to sharpen the camera input.
6. Update the **Region** to the right of the crop area.
7. Update the **Country / State** to the right of the crop area.
8. Click **Save**.
9. Click **Test** to verify that the camera detects the license plate. If not, adjust the crop area.
10. Click the **Settings** icon to return to the main page.

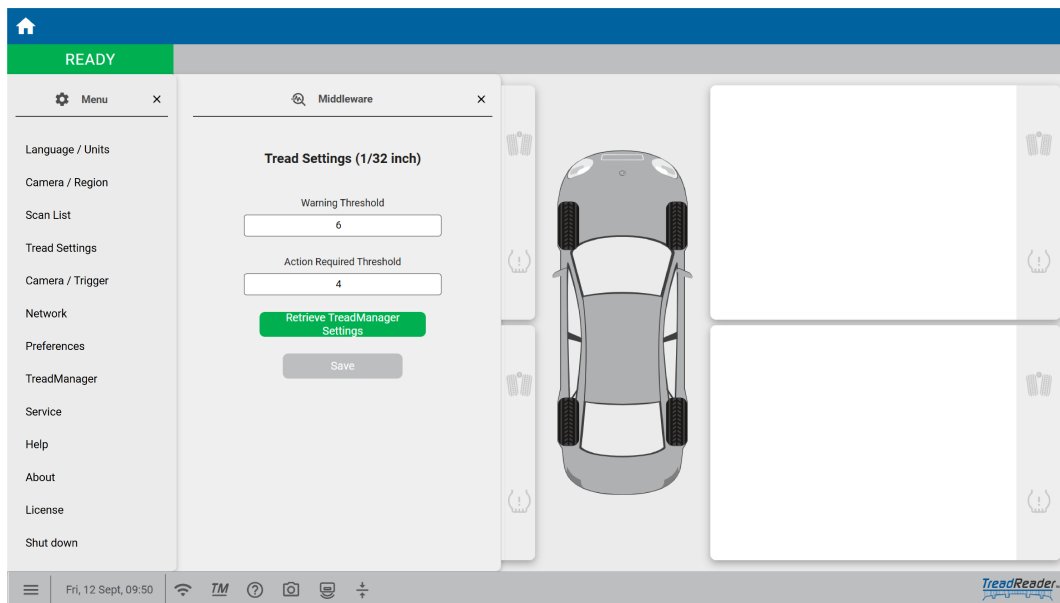


6. Settings

6.3. Adjust Tread Settings

The thresholds are initially set during the first time setup, but can be updated at any time.

1. Click the **Settings** icon in the lower left corner. 
2. Click **Tread Settings** in the menu.
3. Adjust the value that will **warn** about the tyre condition.
4. Adjust the value that requires a **tyre change**.
5. Click **Save**.
6. Click the **Settings** icon to return to the main page.

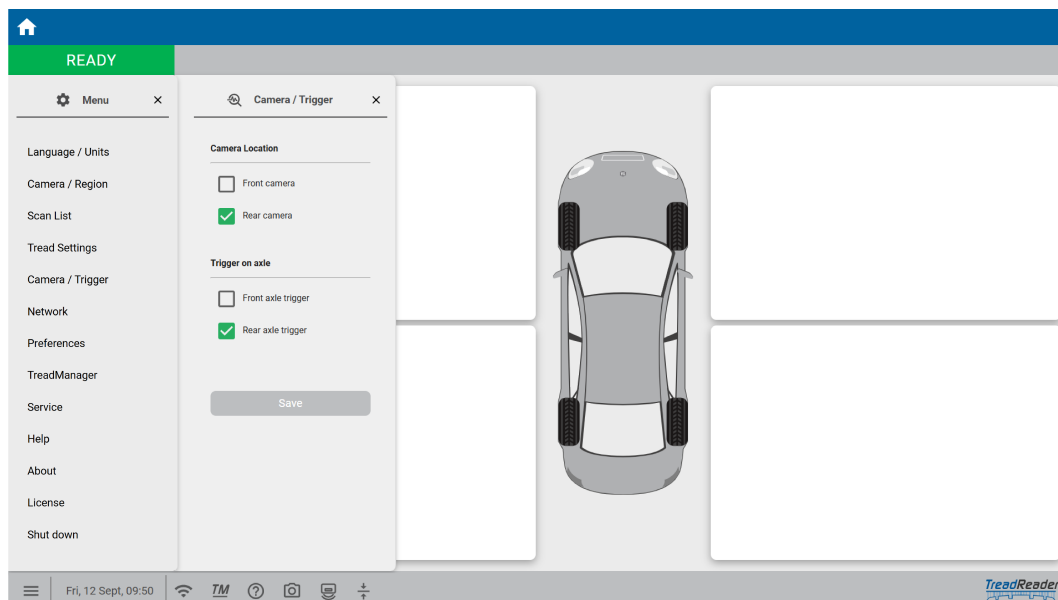


6.4. Adjust Camera / Trigger

The camera and trigger positions are initially set during the first time setup, but can be updated at any time.

In camera / trigger menu it is possible to specify the camera location and on which trigger (front or rear axle) to trigger the camera for license plate snapshot.

1. Click the **Settings** icon in the lower left corner. 
2. Click **Camera / Trigger** in the menu.
3. Update the **Camera Location** by ticking the checkbox for either **Front** or **Rear Camera**.
4. Update the **Trigger On Axle** by ticking the checkbox for either **Front** or **Rear Axle Trigger**.
5. Click **Save**.
6. Click the **Settings** icon to return to the main page.



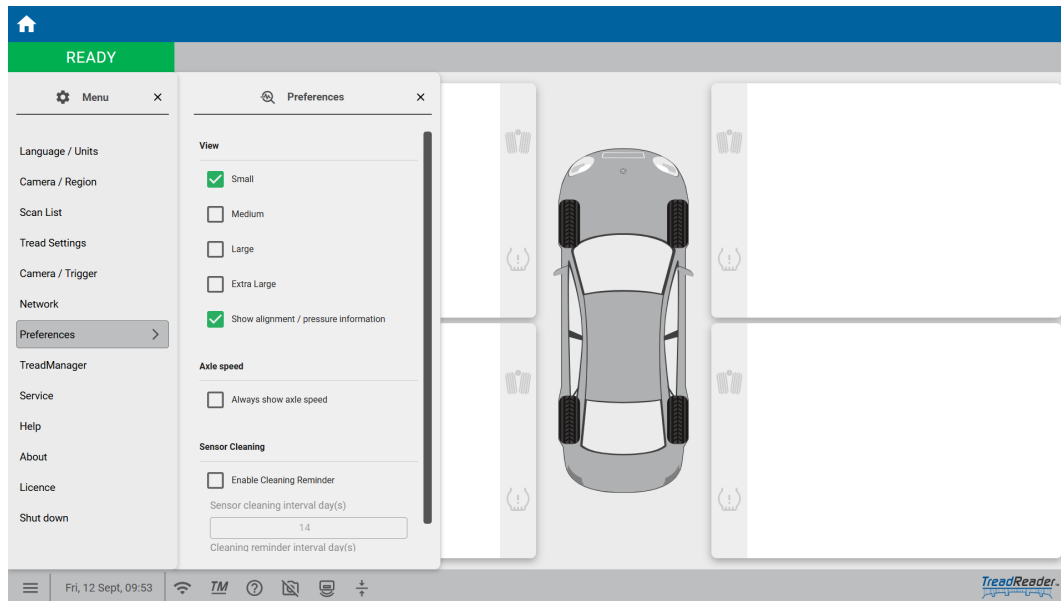
6. Settings

6.5. Adjust Preferences

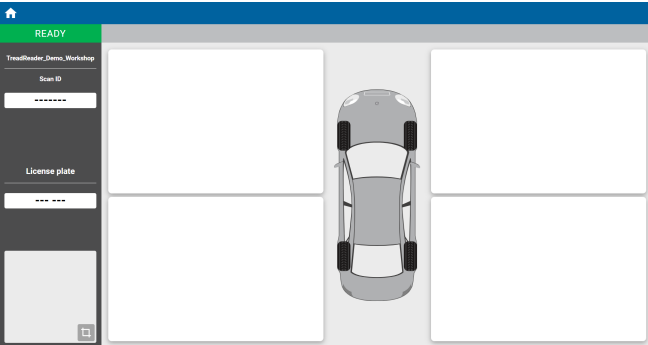
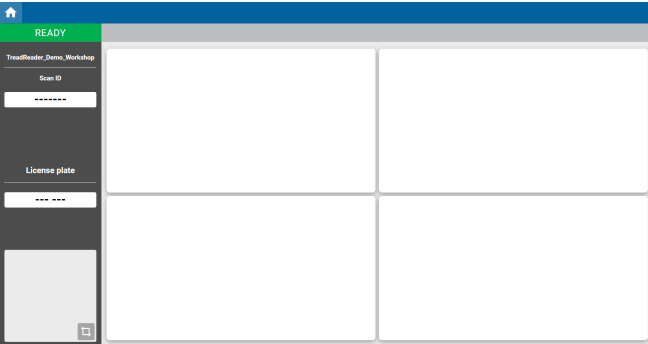
The main page view preferences are initially set during the first time setup, but can be updated at any time.

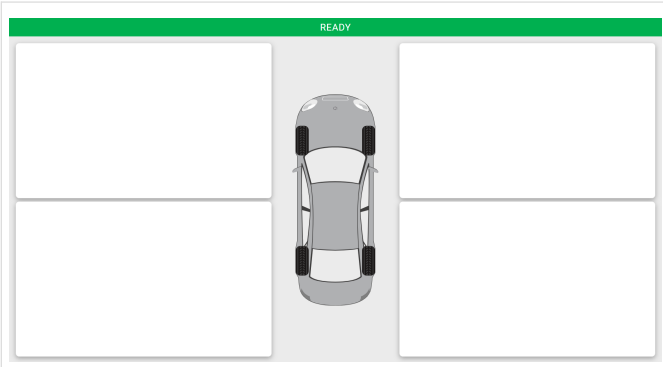
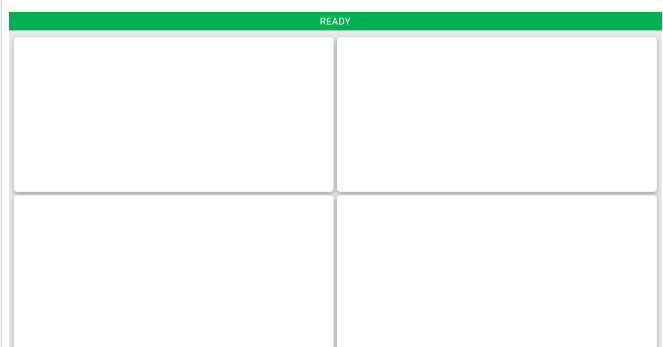
The Alignment / Pressure information can be activated or deactivated regardless of which type of view is selected. Each icon will light up in orange if an anomaly is detected.

1. Click the **Settings** icon in the lower left corner. 
2. Click **Preferences** in the menu.

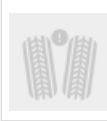
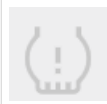


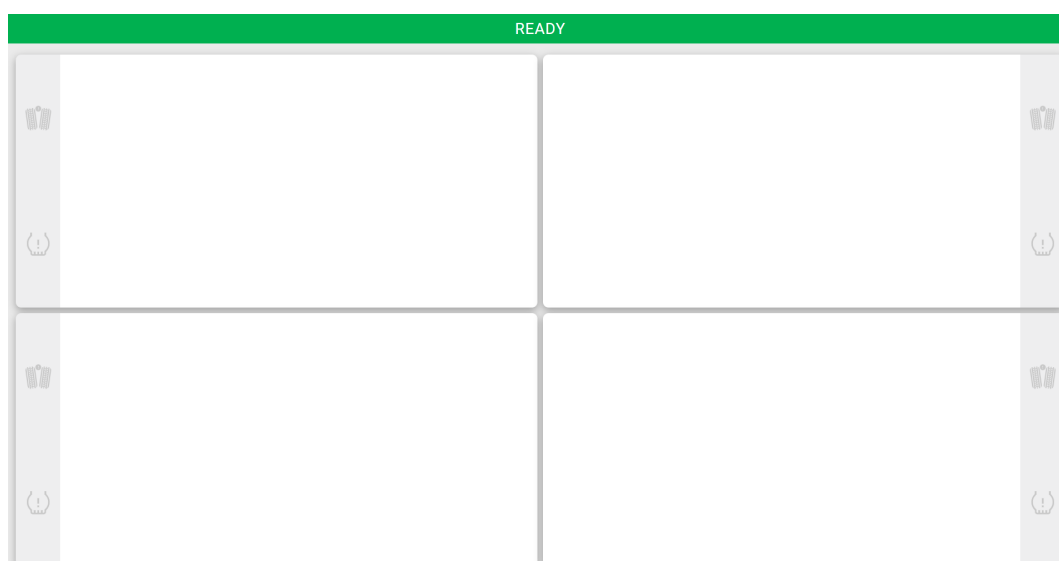
3. Select a **View**.

View	View Name
	Small shows the vehicle image in the middle, header and sidebar.
	Medium hides the vehicle image in the middle to make the tyre images bigger. Shows header and sidebar.

	Large hides the sidebar and header to make the tyre images bigger and show the vehicle image in the middle.
	Extra large hides the sidebar, vehicle image and header to make the tyre images bigger.

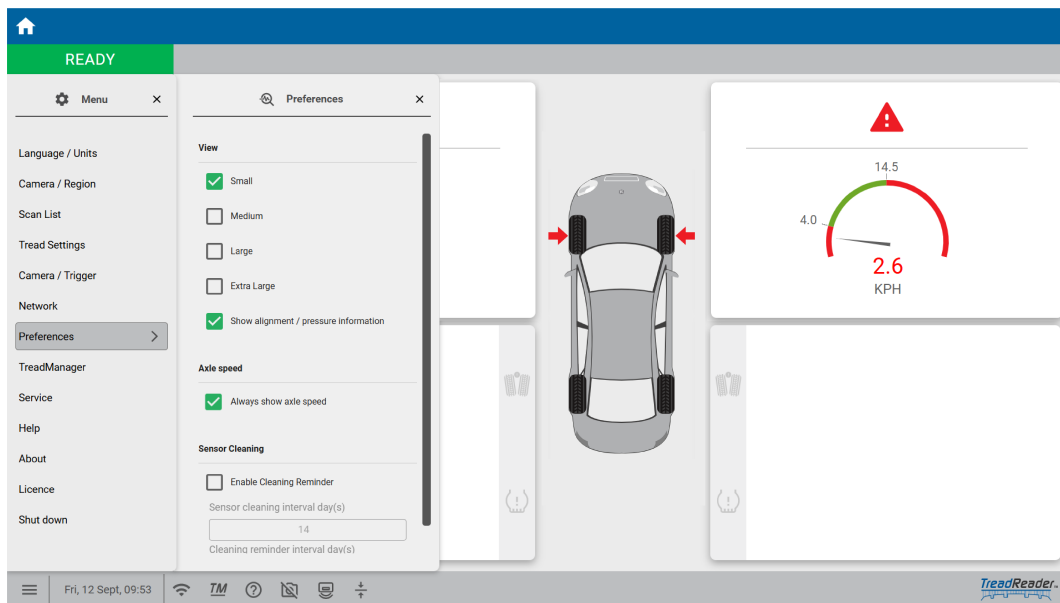
4. Tick **Show alignment / Pressure Information** to add it to the view.

Icon	Description
	If there is Alignment Issue the icon turns orange next to the affected tyre.
	If there is a Pressure Issue the icon turns orange next to the affected tyre.



6. Settings

5. Tick **Always show axle speed** to add it to the view.
6. Tick **Enable Cleaning Reminder** to get a cleaning notice.
7. Click the **Settings** icon to return to the main page.



7. Maintenance

	DANGER Risk of permanent injury or death Misuse of compressed air is highly dangerous and may cause permanent injury or death. Appropriate PPE (Personal Protective Equipment) like safety glasses, gloves and hearing protection must be worn when connecting and servicing the compressed air supply. Make sure compressed air is turned off and no air left in the system before starting any work. Wear Safety Glasses, Gloves and Hearing Protection.
	DANGER Risk of electric shock Installation in areas of standing water or flooding is prohibited. Never expose the equipment to rain. Hosing down of the ramps is allowed. Do not pressure wash under any circumstances.
	WARNING Risk of crush or pinch injuries When the shutter sensor is closing or opening the Camera Lid, there is a risk of pinch or crush injuries. Do not put fingers or other body parts inside the Camera Lid opening when the compressed air is enabled. Make sure compressed air is turned off and no air left in the system before starting any work. Wear Safety Gloves.
	WARNING Risk of eye injury or blindness Class 3R visible-light lasers are considered safe for unintentional eye exposure, because a person will normally turn away or blink to avoid the bright light. Do not deliberately look into or stare into the beam. This can cause injury to the retina in the back of the eye. Avoid direct eye exposure to direct and scattered radiation. Everyday eyeglasses are NOT safety glasses. Do not look directly into the laser beam. Make sure that no person is in the path of the laser beam during activation. Wear Safety Glasses.
	WARNING Risk of crush or pinch injuries When closing the Mid-Section lid, there is a risk of crush or pinch injuries. There is a gas strut installed to keep the lid up. A mechanical stop prevents the lid to close fully. Close the lid by pushing it downwards while pulling its latch. Wear Safety Gloves.

7.1. Clean the Sensors

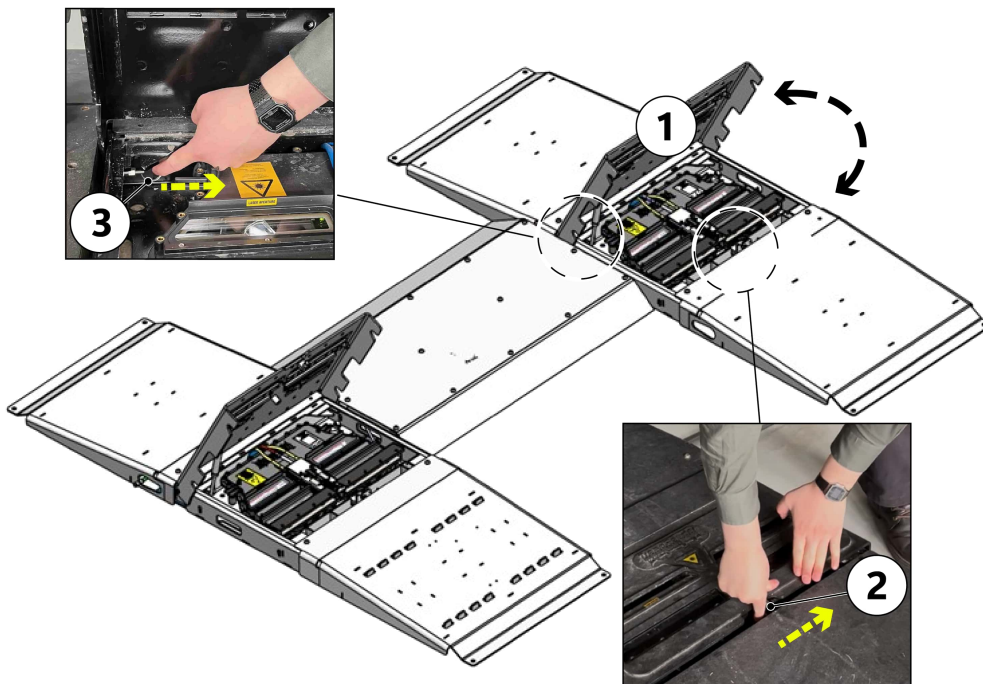
If the scans fail or if you experience partial tread readings, it might be due to dirty sensors.

	DANGER
	Risk of electric shock
	Installation in areas of standing water or flooding is prohibited. Never expose the equipment to rain.
	Hosing down of the ramps is allowed. Do not pressure wash under any circumstances.

1. Make sure compressed air is turned off and no air left in the system before starting any work.
2. Push down the **Mid-Section Lid** (1) while pushing its **Hatch** (2) to the right to release the lid.
3. Lift up the lid.
4. Clean the sensor windows with a microfiber cloth.
5. Close the lid by pushing it downwards while pulling its **Latch** (3).



Make sure that the hatch locks properly and that the lid is flat against the Mid-Section.



1	Mid-Section Lid	3	Latch
2	Hatch		

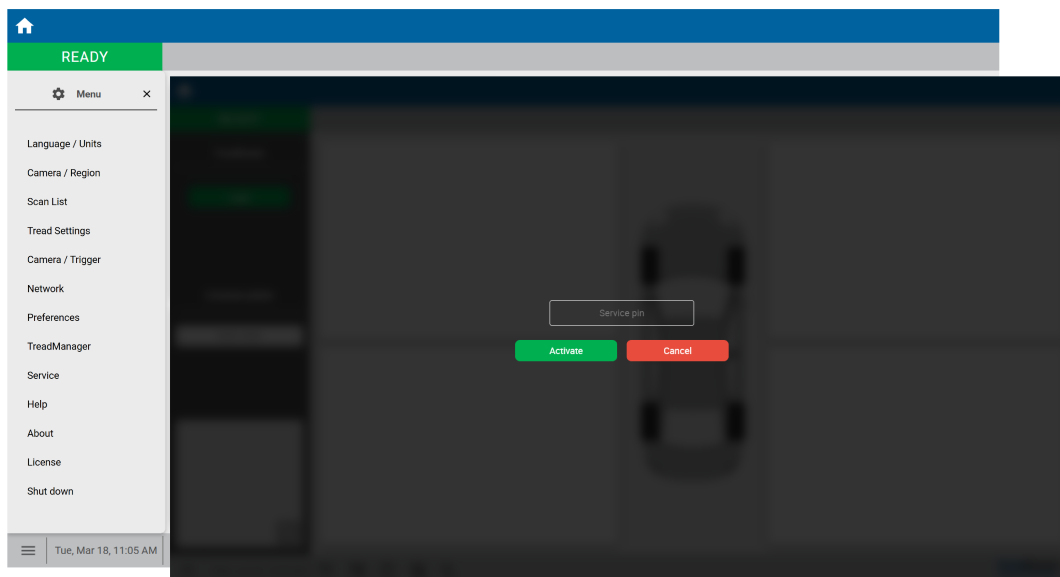
7.2. Enter Service Mode

The Service Mode should only be used by authorized personnel. It gives access to more advanced settings.

1. Click the **Settings** icon in the lower left corner. 
2. Click **Service** in the menu to enter the Service Mode.
3. Enter the **Service pin**.
4. Click **Activate**.



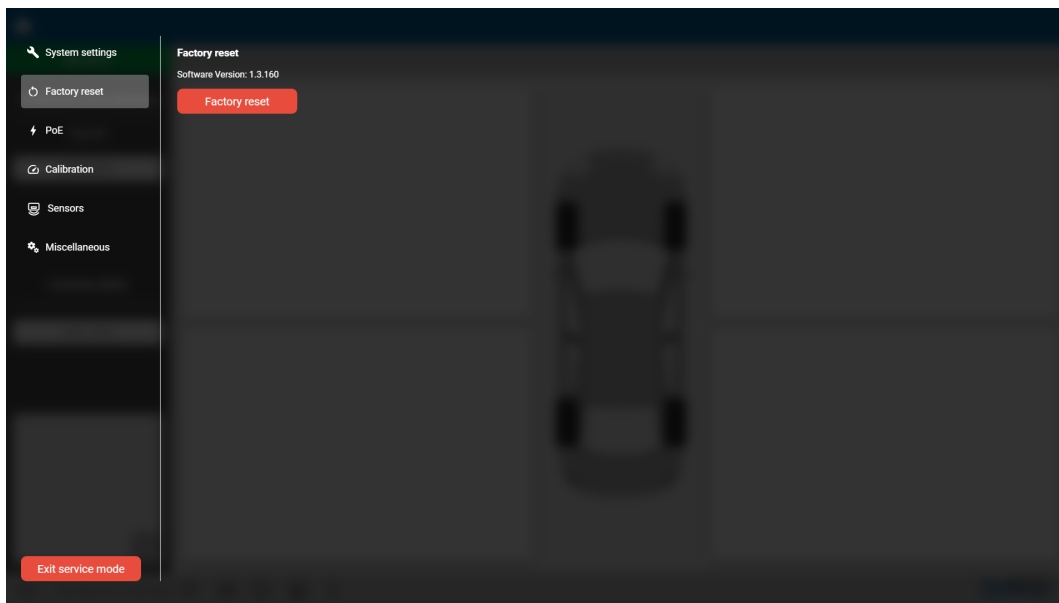
Remember to exit the service mode when done.



7.3. Factory Reset

Factory reset will restore the system to its default settings.

1. Click the **Settings** icon in the lower left corner. 
2. Enter the **Service Mode**.
3. Click **Factory reset** in the left menu.
4. Click **Factory reset** to confirm the choice.
5. Click **Exit service mode**.
6. Click the **Settings** icon to return to the main page.





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