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**USER MANUAL**

IsoMatch FarmCentre

# Identification of the machine

In order to give the best possible product support, your dealer requires several details regarding the ter- minal specification.

**Designation**

IsoMatch FarmCentre

**Article number**

BB IM FarmCentre Accessory A136198300

**Software version**

IsoMatch FarmCentre 2.0

**Manufacturer’s address**

Kverneland Group Mechatronics BV. Hoofdweg 1278

NL-2153 LR Nieuw Vennep

The Netherlands

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# Preface

### Target group of this manual

This operation manual is meant for those concerned with the control, use and maintenance of the product. It contains all data required for a safe handling, use and maintenance of the product.

### For your safety

Before carrying out any adjustments and use of this product, familiarize yourself with this operation manual. By doing so your safety and the optimum performance are assured. It is very important to read this manual carefully before using the product and keep it to hand for reference. In this way you will avoid accidents, respect the warranty conditions and always have a functional device in perfect working order.

### For the employer

All personnel are to be trained in the use of the product regularly (at least once a year) in accordance with employers’ liability insurance association guidelines. Untrained or unauthorized individuals are not permitted to use the product.

You are responsible for the safe operation and maintenance of your product. You must ensure that you and anyone else who is going to operate, maintain or work around the unit be familiar with the operat- ing and maintenance procedures and related safety information contained in this manual.

# Symbols used

In this operation manual the following symbols and terms are used:

* A bullet represents enumerations.
* A triangle represents mandatory steps.
* An arrow represents cross references at other text passages.

Besides these symbols, pictograms are used, which will help you with the location of text passages:

**Tip!** This word shows tips and advices for the easy use of the machine/product.

The triangle refers to danger at assembling or adjusting work of the machine/product.

# Safety information

## Safety decals

This chapter describes general safety information regarding this product.

For your safety, safety decals are placed at significant places on the device. Please do not remove them. If they become illegible or begin to peel off, replace them with appropriate spare stickers.

 When using a high pressure cleaner, do never aim the spray directly at the product.

## General safety information

Read and understand the following general safety information. Specific safety information is pointed out throughout this manual.

### Read and follow the instructions

Before starting to use the product, read the operation manual and follow the instructions. Failure to fol- low the instructions may lead to damage or injury.

### Only qualified personnel

Installation, operation and maintenance may only be performed by qualified personnel that is trained in installation, operation and maintenance of the product.

### Check technical failure

Before starting to use the product, check that it is in perfect working condition. In case of defective com- ponents, contact your dealer for repair and replacement. Defective components may cause failure, leading to damage or injury.

### Keep in good working condition

 Keep the product in good working condition.

### Use original spare parts

Only use original Kverneland Group spare parts. Using other products may lead to malfunction of the product or reduced safety. Warranty is not valid when non-original spare parts are used.

### Do not open the product

Do not open the product housing. Opening the housing may result in reduced lifetime and malfunction of the product. Opening the product renders warranty void.

### Check cables

Check cable condition, replace damaged cables before connecting the product. Damaged cables may lead to damage or malfunction of the machine/product.

### Disconnect power supply during maintenance

During installation or maintenance work, disconnect power supply from the battery. Otherwise dam- age to the product may occur.

### Watch the temperature range

 Watch the temperature range of the machine/product:

* **Storage temperature** -40 to +70 degrees Celsius.
* **Operation temperature** -20 to +55 degrees Celsius.

Extreme high or low operating temperatures may lead to malfunction of the product.

## Intended use

This device is designed for use in agricultural or similar operations. Any other use of the device is unin- tended use. The manufacturer and dealer are not liable for damage or injury caused by improper use.

### Cleaning the product

 Keep the product clean in all conditions. Clean the product with a dry or slightly damp cloth.

### Storing the product

When the product is not mounted on the tractor, store it in a dry and clean place. Obey the storage am- bient temperature range.

### Troubleshooting

When technical failure occurs

 stop operation!

* refer to **troubleshooting** to solve the problem!
* when the problem persists, contact your local dealer!

Continuing to operate when technical failure occurs may lead to damage to the device!

# Getting to know the product

## IsoMatch products

The IsoMatch product range is developed for monitoring, operation and control of Kverneland Group agricultural implements.

IsoMatch FarmCentre establishes a connection between the implement and the internet for...

* communicating with the FarmCentre server via IsoMatch Mobile 4G or IsoMatch Wireless (Wifi)
* collecting implement machine data on the server
* sending TASKDATA via the FarmCentre website to the terminal
* uploading TASKDATA result from the terminal to the FarmCentre server
* GPS tracking of the terminal (tractor)
* sending alerts (DTC’s) from the implement to the FarmCentre server
* generating simple reports on the FarmCentre server from the TASKDATA results

## Products delivery IsoMatch FarmCentre



## Dimensions and cable length



## Technical specifications

|  |  |  |
| --- | --- | --- |
| Subject | Item | Description |
| General features: | Technical standard LTE | R9 |
|  | HSPA+/HSDPA/HSUPA/WCDMA | R8 |
|  | 4G Band | B1/B3/B7/B8/B19/B28/B40 |
|  | 3G Band | B1/B6/B8/B19 |
|  | 2G Band | 850/900/1800/1900 |
|  | Output power | LTE 23dBm (Power Class 3) |
|  |  | HSPA+/HSDPA/HSUPA/WCDMA |
|  |  | +24dBm(Power Class 3) |
|  | Sensitivity | LTE: Compliant with 3GPP TS 36.101 (R9) |
|  |  | HSPA+/HSDPA/HSUPA/WCDMA +: Com- |
|  |  | pliant with 3GPP TS 25.101(R8) |
|  | Power supply | 5V / 700mA |
|  | Dimensions | 88mm x 28mm x 11.5mm |

|  |  |  |
| --- | --- | --- |
| Subject Item | | Description |
| Weight Antenna  LED  AT commands  Supported OS | | <50g  built-in antenna, supporting diversity for 3G/4G  Indicating network signal  3GPP TS 27.007 and 27.005, Huawei ex- tended AT command  LINUX (kernel version equal or above 2.6.21) |
| Applications: | MS237h-153 | MS237h-153 can be integrated with POS machines, meters, medical equipment, etc., to achieve data transmission, remote message management, voice and online upgrades and other functions. |
| Data Features: | LTE  DC-PA+ HSPA+ | DL 150Mbps/UL 50 Mbps DL 42Mbps  data service of up to 21.6 Mbps |

|  |  |  |
| --- | --- | --- |
| Subject | Item | Description |
| Additional features: | Upgrading  Device management | Online software upgrade  Remotely manage the device via SMS (need customization)  Notes: MS2372h does not support SMS text messaging and remote management capabilities at the same time. |
| Interfaces: | USB  SIM Card Ports | USB (Type A)  Standard SIM/USIM Card (2FF) External antenna port |
| Certifications |  | CE/GCF/FCC (certification on plan) |

**Note!** Please refer to the latest version of Hardware Guide about the specifications.

Huawei reserves the right to make changes or improvements to any to the products without prior no- tice.

## Products delivery IsoMatch Wireless PRO



## Dimensions and cable length



## Technical specifications

|  |  |  |
| --- | --- | --- |
| Subject | Item | Description |
| General features: | Standard | 802.11a/b/g/n |
| Chipset: | Mac/BB/RF | Ralink RT5572 |
| Host Interface: |  | USB 2.0 |
| Radio: | Antenna | Integrated printed antennas, 2T2R 802.11a ISM Band: 5.150 ~ 5.825GHz |
|  | Operating Frequency | 802.11g ISM Band: 2.400 ~ 2.4835GHz  \*subject to local regulations 802.11b: DSSS (DBPSK, DQPSK, CCK) |

|  |  |  |
| --- | --- | --- |
| Subject | Item | Description |
| Modulation: | | 802.11a/g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) |
|  | | 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) |
|  | | ANT1: 802.11a: 13dBm ± 2dBm@54Mbps |
|  | | 802.11b: 17dBm ± 2dBm@11Mbps |
|  | | 802.11g: 15dBm ± 2dBm@54Mbps |
|  | | 802.11an (HT20): 12dBm ± 2dBm@MCS7 |
|  | | 802.11an (HT40): 12dBm ± 2dBm@MCS7 |
|  | | 802.11gn (HT20): 13dBm ± 2dBm@MCS7 |
|  | | 80.211gn (HT40): 13dBm ± 2dBm@MCS7 |

|  |  |  |
| --- | --- | --- |
| Subject | Item | Description |
| Output Power | | ANT1: 802.11a: 13dBm ± 2dBm@54Mbps |
|  | | 802.11b: 17dBm ± 2dBm@11Mbps |
|  | | 802.11g: 15dBm ± 2dBm@54Mbps |
|  | | 802.11an (HT20): 12dBm ± 2dBm@MCS7 |
|  | | 802.11an (HT40): 12dBm ± 2dBm@MCS7 |
|  | | 802.11gn (HT20): 13dBm ± 2dBm@MCS7 |
|  | | 80.211gn (HT40): 13dBm ± 2dBm@MCS7 |
|  | | ANT1: 802.11a: ≤ -71dBm@54Mbps |
|  | | 802.11b: ≤ -88dBm@11Mbps |
|  | | 802.11g: ≤ -74dBm@54Mbps |
|  | | 802.11an (HT20): ≤ -71dBm@MCS7 |
|  | | 802.11an (HT40): ≤ -71dBm@MCS7 |
|  | | 802.11gn (HT20): ≤ -72dBm@MCS7 |
|  | | 802.11gn (HT40): ≤ -690dBm@MCS7 |

|  |  |  |
| --- | --- | --- |
| Subject | Item | Description |
|  | Receive Sensitivity | ANT2: 802.11a: ≤ -70dBm@54Mbps |
|  |  | 802.11b: ≤ -88dBm@11Mbps |
|  |  | 802.11g: ≤ -74dBm@54Mbps |
|  |  | 802.11an (HT20): ≤ -70dBm@MCS7 |
|  |  | 802.11an (HT40): ≤ -70dBm@MCS7 |
|  |  | 802.11gn (HT20): ≤ -73dBm@MCS7 |
|  |  | 802.11gn (HT40): ≤ -70dBm@MCS7 |
| Power consumption: | Continue TX  Continue RX | Max 450mA@2TX  Max 175mA@2RX |
| Operating voltage: |  | DC 5V ± 10% |
| Environmental: | Temperature Range  Humidity (Non-Con- densing) | 0 ~ 50°C (Operating) -10 ~ 70°C (Storing) 5 ~ 90% (Operating) 5 ~ 95% (Storing) |
| Physical specification: | Dimensions  Weight | 76.9mm x 26.1mm x 10.7mm  < 10g |

|  |  |  |  |
| --- | --- | --- | --- |
| Subject |  | Item | Description |
| Software: | Driver  Security | Windows XP / Vista/ Win 7, Linux  WEP, WPA, WPA2, WPS | |

## Compatibilty and system requirements



## Inserting SIM card



**Important:** Commissioning of the IsoMatch Mobile dongle with the provided **IsoMatch Mobile M2M SIM card only!**

## IsoMatch Mobile USB stick positions on IsoMatch Tellus PRO



## Connecting IsoMatch Mobile USB stick on IsoMatch Tellus PRO



## IsoMatch Mobile USB stick positions on IsoMatch Tellus GO+



## Connecting IsoMatch Mobile USB stick on IsoMatch Tellus GO+



## IsoMatch Wireless PRO USB stick positions on IsoMatch Tellus PRO



## Connecting IsoMatch Wireless PRO USB stick on IsoMatch Tellus PRO



## IsoMatch Wireless PRO USB stick positions on IsoMatch Tellus GO+



## Connecting IsoMatch Wireless PRO USB stick on IsoMatch Tellus GO+



## LED connection indication states



**Note!** After the IsoMatch FarmCentre dongle inserted, it takes **20 - 30 seconds** to establish a connec- tion.

Once attached to the terminal, the **IsoMatch Mobile dongle** tries to establish a connection to **Iso- Match FarmCentre**, which is indicated by a **blinking green LED**.

As soon as the connection is **established successfully**, the LED light is stable either **blue** or **purple**, depending on which IsoMatch Mobile dongle is used (**3G** or **4G**).

## IsoMatch Mobile dongle connectivity problem diagnostics

For some reasons the LED can still keep blinking.

If the LED of the IsoMatch Mobile dongle is still **blinking green** (no connection to VODAFONE) 20 - 30 seconds after being inserted,

* slide the lid with the LED window back,
* remove the SIM card,
* clean the SIM contacts and
* insert the SIM card again.

If it is still blinking green, the SIM card may be **deactivated**. Replace SIM by an active one.

If the LED of the IsoMatch Mobile dongle is still **blinking blue** (no connection to IsoMatch FarmCentre) 20 - 30 seconds after being inserted,

* slide the lid with the LED window back,
* remove the SIM card,
* check if the type of SIM card is correct. Only the provided IsoMatch FarmCentre M2M SIM cards can be used.

## Time zone, time and date setting on the terminal

* Start up the terminal, navigate to the **configuration screen** and check if the **time zone, time and date settings** are correct and corresponding, so that implement data and GPS data both have the correct time stamps.
  + Time zone setting



* + Time setting
  + Date setting

# Registration and login at My Kverneland or My Vicon

**Note:** Please use internet browsers as Chrome, Firefox or Safari. Windows Internet Explorer and Edge are currently not recommended.

* Start with **my.kverneland.com/my.vicon.eu** and choose the language setting.
  + Language setting



There are two options how to get started with IsoMatch FarmCentre:

* If not being a registered user yet, please choose **Getting started** and follow up the registration pro- cedure to create a **My Kverneland ID**.
* As an already registered user, please choose simply **Already a user** to login.
  + Getting started by registration



* + Login for users
  + Login button
  + Register button

## Getting started by registration

* Press the **Register button** to create a My Kverneland ID.



A window pops up requesting filling in the user’s email address.

* + Email address field



* + Send verification code button
  + Next button
* Fill in the email address and press the **Send verification code button**.



* A verification code shall be sent to the given email address inbox.

A window pops up requesting to verify the verification code.

* + Email address field



* + Verification code field
  + Verify code button
  + New code request button
* Check the mailbox for the **verification code**.

A **Kverneland Group account email verification code** can be found in the mailbox.

**Note:** In case no verification code can be found in the mailbox,

* please check as well the spam folder or
* ask for a new code by pressing the **New code request button**.
  + Transmitted verification code



* Copy the transmitted **verification code**.
* Paste the transmitted **verification code** in the field provided for this purpose.
  + Email address field



* + Verification code field
  + Verify code button
* Then press the **Verify code button** for verification.



After pressing the **Verify code button** the user is asked to complete his profile with personal information.



* + Some details are mandatory, some are voluntary.
  + Mandatory information is marked with a small red star.

At the end of the process the user is asked to give con- sent to data usage and to complete.

* + - User consents
* Agree to the terms of use and press the **Complete button**.



## Getting started as a user

* Press the **Login button** to login as a user.



The **Kverneland Group login** screen pops up.

* + User name



* + Password
  + Sign in button
* Fill in the requested data and press the **Login button**.



# IsoMatch FarmCentre

* Press the **Login button** to login as a user.



The **Welcome to my Kverneland** screen pops up offering various options.

* + Register Machine



* + My Fleet
  + IsoMatch FarmCentre
  + Get in Contact
  + Events & Offers
  + My Account

~~~~My Parts Service

* Press the **IsoMatch FarmCentre button**.



A window pops up informing about **privacy and cookie setting** and asking for con- firmation.



* + Privacy and Cookie information
  + Accept button

Please read the **Terms of use**, **SAP Communication** and our **Cookie Policy**.

* Press the **Accept button**.



A window pops up initiating the **Registration Process**, asking for a **valid license activation code** to enter. The **license activation code** can be found on the IsoMatch FarmCentre info letter inside the set- up kit box.

In case of any problems regarding the license activation code entry, please contact the local dealer.

* + License activation code



* + Activate License button
  + Continue without Activating Li- cense button
* Enter a **valid license activation code** and press the **Activate License but- ton** or decide to continue without activating a valid license code.



The window popping up sequentially asks to sign in by **account** **or registration**.

* + Sign in or register button



* Press the **Sign in or register button** to continue the registration process.



The second window of the **Registration Process** pops up, enabling the user to **register the machin- ery** or to **skip the registration for now**.

In this part of the registration procedure the user can **add tractors and terminals**.

* + Add Terminal button



* + Add Tractor button
  + Next button
  + Skip for now button
* Press the **Add Terminal button** or to skip for now.



The next window which pops up, enables the user to **add a terminal**.

* + Terminal Name field



* + MAC Address field
  + Add Terminal button
* Name the terminal.



By giving the terminal an unique name, makes it easy to track it back on the FarmCentre website.

* Enter MAC address.



**Note:** The **terminal’s MAC address** is locat- ed on the terminal display in the terminal menu, information tab.



* After naming the terminal and entering the MAC address, press the **Add Terminal button**.



The user will be redirected to the second window of the **Registration Process**. In this part of the registration procedure the user can **add tractors**.

* + Add Terminal button



* + Add Tractor button
  + Next button
  + Skip for now button
* Press the **Add Tractor button** or to skip for now.



The next window which pops up, enables the user to **add a tractor**.

* + Tractor Name field



* + MAC Address field
  + VIN number field
  + Add Tractor button
* Name the tractor.



* Enter MAC address.



* Enter VIN number.



**Note:** The **VIN number** is located either on the tractor’s chassis, or on the gearbox, or below the driv- er’s seat or directly on the dashboard. The **VIN number** has 17 characters, tractors build before 18th of June 2014 have a 6 digit serial number.

* Press the **Add Tractor button**.



The user will be redirected to the second window of the **Registration Process**.

* Press the **Next button**.



The third window of the **Registration Process** pops up, enabling the user to **add SIM cards** or to **skip for now**.

In this part of the registration procedure the user can **register SIM card(s)**. **Note:** SIM card registration is not mandatory.

* + Add SIM Card button



* + Done button
  + Skip for now button
* Press the **Add SIM card button** or skip for now.



Please proceed with entering the **SIM card number** to ensure the terminal is being safely connected to IsoMatch FarmCentre at any time while performing in the field.

* + SIM Name field



* + SIM Number field
  + Save SIM Card button
* Choose a SIM card name.



* Enter the SIM card number (19 digits).
* Press the **Save SIM card button**.

The terminal is now successfully registered to IsoMatch FarmCentre and the online set up can be final- ized.

Please follow the instructions at the bottom of the page to guarantee perfect operation.

* + Download user manual



* + Start now button
* Press the **Download Manual button** to download the **user manual**



or

* get started by pressing the **Start Now button**.

# IsoMatch FarmCentre Website

After passing the terminal registration procedure, the **Dashboard screen** pops up.

* + Selection menu
  + Registered user
  + Support



* + Settings
  + Log out
    - Map

**Note:** Automatic refreshing hap- pens every 15 seconds.

Notifications field

Task field

My Machinery field

* + - Working screen

## Settings

### Profile settings personal data

* After pressing the **Settings button** the **Profile overview screen** pops up which enables to edit user related data and to add SIM cards.



* + User name



* + Email address
  + Home coordinates
  + Language setting
  + Edit profile button
  + Add SIM card button
  + SIM Card information
  + License information

### \ Profile editing

* After pressing the **Edit Profile button** the **Profile settings screen** pops up which enables to edit user related data and among others to paste a personal- ized user image.



* + First name



* + Middle name
  + Last name
  + Company name
  + Country/Region
  + Postal code
  + City
  + House number
  + Street address
  + Mobile Phone
  + VAT number
  + Save Profile button

### \ Add a SIM card

* Press the **SIM Card button** to get to the **SIM** **card registration screen** where the SIM card(s) can be registered. SIM card registration is not mandatory.



* + SIM Name field



* + SIM Number field
  + Save SIM Card button
* Choose a SIM card name.



* Enter the SIM card number (19 digits).
* Press the **Save SIM card button**.

### Edit SIM card name

* Press the **Edit function button**.



The screen which pops up enables the user to edit the **SIM card name**.

* + SIM card name



* + Save Changes button
* After editing the SIM card name, press the **Save Changes button** to con- firm the changes.



* Alternatively a SIM card can be removed by pressing the **Delete button**.



### \ Tractor and terminal settings

* Press the **Tractor & Terminals button** to get to the **Tractor & Terminals settings screen** where tractors and terminals can be added and the ownerships of already regis- tered terminals can be transferred to other registered users.



* + Add Tractor button



* + Registered Tractor field
  + Add Terminal button
  + Registered Terminal field

### Add a tractor



* Press the **Add Tractor button**.
  + Tractor Name field



* + MAC Address field
  + VIN number field
  + Add Tractor button
* Name the tractor.



* Enter MAC address.



* Enter VIN number.



**Note:** The **VIN number** is located either on the tractor’s chassis, or on the gearbox, or below the driv- er’s seat or directly on the dashboard. The **VIN number** has 17 characters, tractors build before 18th of June 2014 have a 6 digit serial number.

* Press the **Add Tractor button**.



The recently added tractor will appear as **registered tractor** in the **Tractors’ list**.

### Add a terminal



* Press the **Add Terminal button**.
  + Terminal Name field



* + MAC Address field
  + Add Terminal button
* Name the terminal.



* Enter MAC address.
* After naming the terminal and entering the MAC address, press the **Add Terminal button**. The recently added terminal will appear as **registered terminal** in the **Terminals’ list**.

### Implements settings

* Press the **Implements button** to get to the **Implements settings screen** where the ownerships of already registered implements can be transferred to other registered us- ers.



* + Implement name and ID number



* + Serial number
  + Edit function
  + Implement’s status

### Edit implements

* Press the **Edit function button**.



The screen which pops up enables the user to edit the **Implement’s name**.

* + Implement’s name



* + Save Changes button
* After editing the Implement’s name, press the **Save Changes button** to confirm the changes.



### Support function

* After pressing the **Support button** the **Support function screen** pops up which enables the user to download the **IsoMatch FarmCentre user manual**.



* + Download user manual



* + Close button
* Press the **Download user manual button** to download the IsoMatch FarmCentre user manual.



* After successfully downloading the IsoMatch FarmCentre user manual, press the **Close button** to close the Support function screen.



## Selection menu overview

The **Selection menu** on the right side of the main screen enables the user to choose between the **Dashboard screen**, the **Map screen**, the **Machinery screen**, the **Task screen** and the **Agronomic tools**.

* + Dashboard button



* + Map button
  + Machinery button
  + Tasks button
  + Agronomic tools button

## Dashboard screen

The **Dashboard screen** shows beside the **My Machinery field**, the **Tasks field** and the **No- tifications field**, **the map** with the geographical positions of all terminals, tractors and im- plements registered by the account holder, active (darkgreen) or inactive (grey).



 Registered terminal  Registered tractor

 Registered implement (in this case a spreader implement)

### My Machinery field

In the **My Machinery field** an overview of the total of machines, in **ac- tive** or **inactive state** is given.



* The **My Machinery field** can also be reached by pressing the **Machinery button** in the se- lection menu on the right.



### Tasks field

The **Tasks field** displays performed and/or planned tasks on a daily or weekly base.



* The **Tasks field** can also be reached by pressing the **Tasks button** in the selection menu on the right.



### Notifications field

In the **Notifications field** all incoming notifications and warnings are listed in chronological order of receipt.



## Map screen

* By pressing the **Map button** the Map screen pops up.



* + Fleet tab



* + Tracking tab
  + Map tools

## Map tools

### Style selection

* IsoMatch FarmCentre enables to choose between different forms of representation of the geographical maps by pressing the **change view button**.



* + Satellite view



* + Hybrid view



* + Road view



* Gray scale view
* Night view
* Terra view

Other tools in the style sheet palette are the **zoom in and zoom out buttons**, the **pitch button** and the **rotation button**.

* + Pressing the **zoom in and zoom out buttons** enables to zoom in and out step- wise in increments of 5%.



* + By pressing the **pitch button** the viewing angle can be changed accordingly from a pure top view to a so to say simulated 3D view angle.



* + By pressing the **rotation button** the orientation of the map can be adjusted to the user's needs by turning around clockwise and counter-clockwise.



## Map tabs

### Fleet tab

The **Fleet tab** enables the user to activate **Geofence**. The **Fleet screen** shows the last localized position of the selected terminal or implement connected to the terminal.



**Geofence** is a virtual fence or indication around a physical location. Like a real fence, a Geofence cre- ates a boundary between the location and the area around it. **Geofence** detects movements within a defined area and gives warnings when the defined area is exceeded.

* + - Geofence button



* + - Geofence activation button
  + Press the **Geofence activation button**.



* + Geofence can be deactivated by pressing the **Geofence deactiva- tion button**.



The screen which pops up displays the **Geofence** of the registered tractor or terminal (depending on which one is registered) with the previously **set radius** parameter.

* + - Tractor position



* + - Geofence
* By clicking on the **tractor** or **terminal icon** a small window pops up, providing **basic information** regarding brand, model and activity status. A link enables the user to switch directly to the **Machine screen** for more detailed information.



### Tracking tab

The **Tracking tab** enables to set up a **Time filter** to track back the terminal’s and implement's tracking history or localize the latest online GPS position.



* + Machine list drop down menu



* + Start date selection
  + Start hour selection
  + End date selection
  + End hour selection
  + View trajectory button
  + Last known position
  + Time filter reset button

### Time filter

* The **Time filter** start parameters can be easily set by pressing on the **Start date calendar icon**.



* + Backward/Forward selection



* + Month selection drop down menu
  + Tracking history available

Dates **marked green** indicate that tracking history is available and can be selected.

* Select **Start date** by clicking on the selected date.
* Pressing on the **Start hour icon** enables the user to set the start hours.



* + AM/PM selection



* + Hours
  + Minutes
* Repeat this procedure for the **end date** and the **end hour**. **Note!** The maximal tracking period which can be set is 24 hours.
* Press then the **View trajectory button**.



The **Tracking screen** pops up displaying the tracks of previously **selected machine** from the machine list and based on set time filter settings.

The screen which appears shows the en- tire tracking of the terminal/implement including starting and ending point with- in the requested time period.



* + Starting point
  + Last known position
  + Ending point
* Press the **Last Known Position field**.
* Last Known Position field
* Reset Time Filter field

The last known position of the terminal or tractor is displayed by a small check- ered flag.



* Press the **Reset Time Filter field** to change the time filter settings.



## Machinery screen

* By pressing the **Machinery button** the Machinery screen pops up.



The **My Machinery screen** displays beside an overview of the total of machines, in **active** or

**inactive state**, three columns with all connected machines and devices.

* + Graphic display total of machines



* + All devices listed regard- less the status (active or inactive)
  + Connected machines

### Connected Machines

The **Connected Machines column** displays all **tractors** and their **connected implements or termi- nals**. **Green** or **grey dots** indicate whether they are in **active** or **inactive state**.

Clicking on the **green pictograms** opens a screen with all possible ba- sic data available regarding the tractors and their connected terminals or machines.



* Click on the green tractor pictogram.



#### The Machine Data screen pops up revealing Machine Identification information, Task Per- formance information and Machine Data.

* + Analyse Machine Data



* + Browse Default Chart
  + Machine Identification
  + Task Performance data
  + Machine Data field

### Analyse Machine Data

* Press the **Analyse Machine Data button**.



The screen which pops up enables the user **to create graphs and reports**

from the parameters of the selected tractor or implement.

* + Time period selection by day(s), month or year



* + Time period selection by calendar
  + Parameter selection (max. 2 parameters)
  + Generate report button
* After determining the time period and the parameter selection, press the



#### Generate report button.

The screen popping up shows the generated graph based on previous time period and parameter se- lection.

* + Selected time period



* + Chart switch

By operating the chart switch, the selected parameters can be displayed in two ways, both as a bar graph and a line graph.

* + Graph field
  + Download report button
* By pressing the **Download report button**, a machine data analysis report is generated in the form of a PDF.



* After successfully downloading the **machine data analysis report**, press on **Exit** to get re- directed to the **Machine Data screen**.



The screen which pops up is asking for confirmation.

* + Confirmation button



* + Cancel button
* To get back to the **Machine Data screen** push the **Confirmation button**.



### Browse Default Chart

* Press the **Browse** **Default Chart button**.



The screen which pops up enables the user **to create charts and reports** from the parameters of the selected tractor or implement.

* + Time period selection by day(s), month or year



* + Time period selection by calendar
  + Default graph selection
  + Generate report button
* After determining the time period and the default graph selection, press the



#### Generate report button.

The screen popping up shows the generated **default graph** based on previous time period and de- fault graph selection.

* + Selected time period



* + Graph field
  + Download report button
* By pressing the **Download report button**, a default chart report is generat- ed in the form of a PDF.



* After successfully downloading the **default chart report**, press on **Exit** to get redirected to the **Machine Data screen**.



The screen which pops up is asking for confirmation.

* + Confirmation button



* + Cancel button
* To get back to the **Machine Data screen** push the **Confirmation button**.



### All Devices

The **All Devices column** displays all devices listed regardless their status (active or inactive). **Green** or

**grey dots** indicate whether they are in **active** or **inactive state**.

Clicking on the **green pictograms** opens a screen with all possible basic data available regarding the tractors and their connected terminals or implements.



* Click on the green implement pictogram.



#### The Machine Data screen pops up revealing Machine Identification information, Task Per- formance information and Machine Data.

* + Analyse Machine Data



* + Browse Default Chart
  + Machine Identification
  + Task Performance data

~~~~Machine Data field

* + Further Data field

### Machine Data



* By clicking on the **Machine Data field**, all user relevant basic machine data is unfolded.



* Click again on the **Machine Data field**, to close the basic machine data.

### Further Data



* By clicking on the **Further Data field**, **all machine data** is revealed.



**Note!** This means that while all data is disseminated, not all data is relevant to the user.



* Click again on the **Further Data field**, to close all machine data.

## Tasks screen

* By pressing the **Tasks button** the Tasks screen pops up.



The **Tasks screen** displays planned and performed tasks on a daily or weekly base and ena- bles the user to upload tasks.

* + Refresh button



* + Upload task button
  + Planned tasks
  + Send TASKDATA field
  + Performed tasks

### Planned tasks

Regarding the **Planned tasks** the user can upload tasks which appear then in the list of planned tasks.

* When pressing the **Upload task button** the Upload tasks pop up appears.



* + Select TASKDATA button



* + Upload task button
* So first push the **Select TASKDATA button** and browse to the destination where the desired task data folder is located.



**Note:** The selected task data folder has to be compressed (zipped).

* Then press the **Upload task button**.



The selected task data will be uploaded and appears in the **list of planned tasks**

according to the date of receipt.

### Send TaskData

Additionally, **Planned tasks** enables to **send TASKDATA**.

* Click on the **Send Task field** to open the **Send Task pop up**.



The pop up window offers two options to send TASKDA- TA, one **via AgriRouter** and one via **IsoMatch FarmCen- tre**.



* + Send TASKDATA via AgriRouter button
  + Send TASKDATA via IsoMatch FarmCentre but- ton
  + Close button
* Decide whether to send TASKDATA **via AgriRouter** or **via IsoMatch FarmCentre** and press the but- ton accordingly.
* Click on the **Send TASKDATA** **via AgriRouter button**. The following window pops up:



* + TASKDATA name edit field enables the user to edit the task name



* + TASKDATA recipient field to determine the de- sired recipient (all registered terminals or trac- tors belonging to this account/listed in the drop down menu)
  + Send task button
* Click on the **Send task button** to send TASKDATA to the selected recipient.



* Click on the **Send TASKDATA via IsoMatch FarmCentre button**. The following window pops up:



* + TASKDATA name edit field enables the user to edit the task name



* + TASKDATA recipient field to determine the de- sired recipient (all registered terminals or trac- tors belonging to this account/listed in the drop down menu)
  + Send task button
* Click on the **Send task button** to send TASKDATA to the selected recipient.



Selecting task data by setting a click mark in **Planned Tasks,** reveals two extra functions.



* Select TASKDATA in **Planned Tasks**.

~~~~Download task function

* + Delete task function



* Press the **Download button** to download TASKDATA.



* Press the **Delete button** to delete TASKDATA.



### Performed tasks

In **Performed tasks** the user can **download, export or delete TASKDATA**.

Selecting TASKDATA by setting a **click mark** in **Performed Tasks,** reveals four extra functions.

* Select TASKDATA in **Performed Tasks**.



* Press the **Download report button** to download TASKDATA reports.
* Press the **Export button** to export TASKDATA.
* Press the **Download button** to download TASKDATA.
* Press the **Delete button** to delete TASKDATA.
* Delete function
* Download function



* Export function
* Download report function



* + By pressing the **Download report button** the user can choose between three options:



* + - Download as **PDF** report
    - Download as **Excel** file
    - Download all reports **.zip** format
  + By pressing the **Export button** the EXPORT TASKDATA window pops up.



* + - TASKDATA name



* + - TASKDATA recipient field to determine the de- sired recipient
    - Send task button
  + Click on the **Send task button** to send TASKDATA to the selected recipient.



* + By pressing the **Download button** the downloaded TASKDATA will be stored in **.zip** format.



### Refreshing planned and performed tasks



* + By pressing the **Refresh button** the **Planned and Performed tasks displays**

will be updated with new planned and/or performed tasks via **AgriRouter**.

* + - New planned task entry



* + - New performed task entry

## Agronomic Tools

* + After pressing the **Agronomic Tools button** in the selection menu the **Tools Store page**



pops up.

The **Tools Store page** enables the user to create maps via **MyDataPlant** or to exchange uni-

versal data for farmers and agricultural contractors to connect together machines and agricultural soft- ware solutions across manufacturers via **AgriRouter**.

* + - AgriRouter



* + - MyDataPlant

# IsoMatch FarmCentre on IsoMatch Tellus PRO



* + Start up the terminal and press the **Application selector**.
  + Press the **Applications button**.



The applications section with all currently available applications listed opens.

* + - FarmCentre button



* + Press the **FarmCentre button**.



The **IsoMatch FarmCentre start screen** pops up.

**Note:** Depending on the used connection device, IsoMatch FarmCentre or IsoMatch Mobile dongle, the depiction of the connection states differ.

The image beneath illustrates an **IsoMatch Mobile dongle** connection.

* + - IsoMatch FarmCentre logo field.



* + - IsoMatch Wireless connection status
    - GPS connection status
    - Data base connection status
    - IsoMatch Mobile connection status
    - Implement connection status
    - IsoMatch FarmCentre license status

The image beneath illustrates the connection to IsoMatch FarmCentre established by an **IsoMatch Wireless dongle**.

* + - IsoMatch Wireless connection status



* + - IsoMatch Mobile connection status

## IsoMatch FarmCentre connection states

The five **IsoMatch FarmCentre connection status icons** can distinguish depending on their actual connection status each icon twice.

### Implement connection status

Implement connected.

Implement not connected. 

### IsoMatch Mobile connection status

IsoMatch Mobile dongle connected.

IsoMatch Mobile dongle not connected. 

### IsoMatch Wireless connection status

IsoMatch Wireless dongle connected. IsoMatch Wireless dongle not connected.

### GPS connection status

GPS connection established.

No GPS connection established. 

### FarmCentre data base connection status

Connected to the IsoMatch FarmCentre data base. Not connected to the IsoMatch FarmCentre data base.

## Telematics user interface connection details

* Press onto the **IsoMatch FarmCentre logo field**.



The screen which pops up reveals detailed service information and data about IsoMatch FarmCentre. This data can be used by Kverneland Mechatronics to further identify issues and to solve them.

* + Enable Telematics button



* + General information
  + CAN Daemon
  + FM Agent
  + Actuals statistics
  + Export log files button
  + Confirmation button

#### General information

* Broker address & Broker Port and VNC args are configuration settings for Remote Diagnostics (Iso- Match TopRemote).
* FM Agent is configuration setting for IsoMatch FarmCentre.

#### CAN Daemon (ISOBUS connection)

* # of address claims shows the number of address claim sequences on ISOBUS since start up. Connect- ing an implement results in a n address claim sequence.
* Excessive claims. The indication ‘yes’ states ISOBUS issues which can result as consequence to no or incomplete data collection.

#### FM Agent (IsoMatch FarmCentre server connection)

* Terminal id. When this is 0, the following reasons can apply:

The terminal is not connected yet to the IsoMatch FarmCentre server.

The terminal is not registered correctly on the IsoMatch FarmCentre server. The IsoMatch FarmcCentre license is expired.

* Cached size. Machine data is cached on the terminal before it will be sent to the server. When the val- ue is lowering or 0.00, the connection is adequate. In the case there is no connection with the Iso- Match FarmCentre server, the value will increase.
* Total GPS points means the number of GPS coordinates that are received. No increment indicates that there is no GPS connection or coverage. After restarting the terminal this number starts at 0. Iso- Match FarmCentre currently uses a 10 second interval for renewing the value.

#### Actual statistics

Actual statistics on received machine data from the implement which has to support IsoMatch Farm- Centre data collection.

* Total. Total number of defined machine data values.
* Requested. Requested number of values.
* Responded. Received number of values.
* Changed. Number of values that have a changed value.
* Cumulative. The total since terminal restart.
* Cyclic. Cyclic is the total for each request interval.

#### Enable telematics on next boot

Data collection can be switched off in case the implement and/or terminal does not work correctly due to ISOBUS load or implement/terminal limitations.

The GPS coordinates will still be sent and tasks can still be up- or downloaded remotely to/from Iso- Match FarmCentre server.

**Note:** The terminal requests all the different data values every 10 seconds, except for those values which are static (such as the implement model f. ex.).

The terminal only sends the initial values (at start up) and the changed values to the IsoMatch Farm- Centre server.

The case that requested and responded counters are not equal can be due to implement connection/ reconnection. A significant difference can result in a communication issue with the implement (ISO- BUS or implement problem).

* Press the **Confirmation button** to close the screen.



* Press the **Export button** to copy terminal log files on a USB stick.



* Press the **Import button** to download Telematics configuration data.



## IsoMatch FarmCentre TASKDATA files

### IsoMatch FarmCentre TASKDATA import, export and download

#### Pre conditions:

TASKDATA files are in zip file format. The original TASKDATA folders and files must be zipped before using it in IsoMatch FarmCentre to be sent to a terminal.

Downloaded TASKDATA files from IsoMatch FarmCentre are also in zip file format.

#### TASKDATA handling:

On the terminal TASKDATA can be

* imported from USB,
* imported from remote (IsoMatch FarmCentre) or
* created on the terminal.

Export is possible to USB and to IsoMatch FarmCentre (remote) for all imported/created tasks:

* USB imported or local created tasks exported to IsoMatch FarmCentre (remote).
* TASKDATA result will be stored in IsoMatch FarmCentre in a new zip file with name **Unknown\_Task- Data\_Result** (currently all have the same name).
* Remote imported TASKDATA exported to remote.

TASKDATA will be stored in the same file as the original sent and imported file.

* Remote imported tasks exported to USB.

The USB stick contains the TASKDATA folders. The TASKDATA zip file name is not exported, this means the USB export has no relation anymore with the TASKDATA file in IsoMatch FarmCentre.

* When TASKDATA is exported to remote and there is no connection to the IsoMatch FarmCentre serv- er, the exported data remains on the terminal file system until it connects with IsoMatch FarmCen- tre.

In case there is no connection for a longer time period and the user wants access to the TASKDATA result the TASKDATA can also be backed up on USB via the export procedure. Instead of selecting ‘Ex- port task data to remote’ insert a USB stick and select ‘Export to remote backup’.

Note that the TASKDATA remains on the terminal and will be sent to IsoMatch FarmCentre when the terminal is connected again.

* Download TASKDATA (result) file. TASKDATA download to your computer results in a zip file with the following folders:

# Remote Data Management

Remote Data Management consists of importing and exporting TASKDATA. Remote Data Management is done in Menu Data management tab.

* Press onto the **Data management button**. The Data management tab opens.



* + Clear data base button



* + Import TASKDATA button
  + Export TASKDATA button

## Import TASKDATA from the IsoMatch FarmCentre server

The task file sent by the IsoMatch FarmCentre server is stored in the file system on the terminal. Tasks from this TASKDATA file can be imported in GEOCONTROL.

* Press the **Import TASKDATA button**.



The Import screen pops up, offering various import options.

* + Import TASKDATA from Farm- Centre



* + Confirm button
* Select **Import TASKDATA from FarmCentre** press the **Confirm button**.



The **Select TASKDATA** screen pops up.

* + Selected TASKDATA



**Note:** All TASKDATA and data that was earlier imported will be removed from the application, before the new set of TASKDATA is imported. Fields and field boundaries that are created on the terminal will be kept.

* Select the TASKDATA meant to be imported and confirm the selection by pressing the **Confirm button**.



A progress bar will appear to indicate the status of the import action.

After the TASKDATA import action is executed successfully, the following screen appears.

* + Confirm button



* Press the **Confirm button** get redirected back to the Data management tab.



**Note:** After import, the imported data and tasks are directly ready for use.

In the case that there is no remote TASKDATA available to be imported, the following screen pops up.

* + Abort button



* Press the **Abort button** and get redirected back to the Data management tab.



## Export TASKDATA to the IsoMatch FarmCentre server

The task file sent by the IsoMatch FarmCentre server is stored in the file system on the terminal. Tasks from this TASKDATA file can be imported in GEOCONTROL.

* Press the **Export TASKDATA button**.



The Import screen pops up, offering various export options.

* + Export TASKDATA to FarmCentre



* + Confirm button
* Select **Export TASKDATA to FarmCentre** and press the **Confirm button**.



The **Finalize Tasks** screen pops up.

* + Abort button



* + Confirm button

**Note:** All executed tasks will be set to the state **finalized** and exported when pressing the **Confirm button**. By pressing the **Abort button** task data will be exoprted too, but the executed tasks won’t get the tag finalized.

* Press the **Confirm button** to finalize tasks and continue with exporting remotely task da- ta.



Otherwise press the Abort button to continue without finalizing.

A progress bar will appear to indicate the status of the export action.

After the TASKDATA export action is executed successfully, the following screen appears.

* + Confirm button



* Press the **Confirm button** get redirected back to the Data management tab.



# Troubleshooting

## Technical failure: What next?

When technical failure occurs

#### stop operation!

* **refer to troubleshooting advices** to solve the problem!
* when the problem persists, **contact your dealer!**

Continuing to operate when technical failure occurs may lead to **damage to the terminal**!

During installation, welding and maintenance work, **disconnect power supply from the battery. The terminal may otherwise get damaged.**

## Troubleshooting IsoMatch Mobile connectivity issues

|  |  |  |
| --- | --- | --- |
| Failure | Possible cause | Solution |
| No IsoMatch Mobile connectivity. | Telematics is not enabled on the terminal. | Enable Telematics on the terminal by clicking on the IsoMatch FarmCentre lo- go.  Then enable it in the upper right corner. |
|  | The SIM card is not inserted. | Insert the SIM card. |
|  | The SIM card has no contact. | Clean the SIM card contacts with an eras- er. |
|  | The terminal is a K-Monitor (KUBOTA). | Check if the dongle is in the first USB port next to the ISB button.  Change the port. |
|  | The terminal is not connected to the network. | Check if the SIM card is activated.  Contact your local KVERNELAND/KUBOTA service point. |

## Troubleshooting IsoMatch Wireless connectivity issues

|  |  |  |
| --- | --- | --- |
| Failure | Possible cause | Solution |
| No IsoMatch Mobile connectivity. | Telematics is not enabled on the terminal. | Enable Telematics on the terminal by clicking on the IsoMatch FarmCentre lo- go.  Then enable it in the upper right corner. |
|  | The SIM card is not inserted. | Insert the SIM card. |
|  | The SIM card has no contact. | Clean the SIM card contacts with an eras- er. |
|  | The terminal is a K-Monitor (KUBOTA). | Check if the dongle is in the first USB port next to the ISB button.  Change the port. |
|  | The terminal is not connected | Check if the SIM card is activated. |
|  | to the network. | Reset the router. |
|  |  | Replace the dongle. |
|  |  | Contact your local KVERNELAND/KUBOTA |
|  |  | service point. |

## Troubleshooting GPS signal issues

|  |  |  |
| --- | --- | --- |
| Failure | Possible cause | Solution |
| No GPS signal. | Location inside a building (shed) or shielded by build- ings, trees, etc. | Move to an unshielded place.  Then enable it in the upper right corner. |
|  | Usage of Kverneland GPS re- | Check cables and cable connections from |
|  | ceiver/antenna. | the receiver to the terminal. |
|  |  | For explanation see the, IsoMatch GEO- |
|  |  | CONTROL user manual. |
|  |  | Contact your local KVERNELAND/KUBOTA |
|  |  | service point. |
|  | Usage of third party brand re- ceiver/antenna. | Check cables and cable connections from the receiver to the terminal.  Contact service third party brand. |

## Troubleshooting on implements issues

|  |  |  |
| --- | --- | --- |
| Failure | Possible cause | Solution |
| The implement is not con- nected with IsoMatch Farm- Centre. | The implement is **not** a KVER- NELAND, VICON or KUBOTA  implement. | IsoMatch FarmCentre does not work with third party branded im- plements. |
|  | The implement is a KVERNE- | Disconnect and then reconnect the |
|  | LAND, VICON or KUBOTA im- | ISOBUS connector. |
|  | plement. | Contact your local KVERNELAND/ |
|  |  | KUBOTA service point. |

## Troubleshooting TASKDATA issues

|  |  |  |
| --- | --- | --- |
| Failure | Possible cause | Solution |
| It is not possible to send tasks to the termi- nal. | No internet connection. | Check your internet connection. |
|  | The SIM card is not inserted. | Insert the SIM card. |
|  | The TASKDATA file is not zipped to ZIP format. | Zip the TASKDATA file and retry to send it. |
|  | The TASKDATA is not written in ISO-XML format. | Convert it to ISO-XML format. Other for- mats cannot be converted nor send to the terminal. |
|  | An error message is given from the website. | Contact your local KVERNELAND/KUBOTA service point. |

## Troubleshooting on permissions issues

|  |  |  |
| --- | --- | --- |
| Failure | Possible cause | Solution |
| It is not possible to give per- | The user in question has no | It is not possible to give permission |
| mission to other users or to | proper IsoMatch FarmCentre | to other users or to add users if they |
| add users. | account. | do not have a o proper IsoMatch |
|  |  | FarmCentre account. |
|  | The user in question has a proper IsoMatch FarmCentre account. | Contact your local KVERNELAND/ KUBOTA service point. |

## Troubleshooting on sending TASKDATA issues

|  |  |  |
| --- | --- | --- |
| Failure | Possible cause | Solution |
| The terminal is buff- ering data but not sending. | No internet connection. | Drive a short distance to establish a stable in- ternet connection.  See troubleshooting, **IsoMatch Mobile con- nectivity** and **IsoMatch Wireless connectiv- ity**. |
|  | Telematics is not enabled on the terminal. | Enble Telematics in IsoMatch FarmCentre on the terminal by clicking on the IsoMatch FarmCentre logo.  Then enable it in the upper right corner. |
|  | The internet connection is established by a wifi dongle. | Make sure that the internet connection is sta- ble with a mobile hotspot or close to a router.  Reset the router.  Contact your local KVERNELAND/KUBOTA ser- vice point. |

# Cleaning and storage

This chapter provides instructions for the cleaning and storage of the product/machine.

#### Cleaning the product

* Keep the product clean in all conditions.
* Clean the product with a dry or slightly wetted cloth.

#### Cleaning cables and connectors

* Do not clean cables and connectors with water.
* Clean the cables and connectors with a dry piece of cloth.

#### Storing the product

* When the product/machine is not mounted on the tractor, store it in a dry and clean place. Obey the storage ambient temperature range.

# Disposal

When the functional life of this product has expired it needs to be disposed in an Eco friendly way.

* Dispose the device parts in the correct way.
* Obey local rules.

#### Plastics

* Dispose plastics as normal waste or in accordance with local rules.

#### Metal

* Send metal to a metal recycling facility.

#### Printed circuit board

* Send electronics to a specialised recycling facility or send it back to the manufacturer, who will dis- pose it in an environmentally friendly way.

# Original EC declaration of conformity

**Kverneland Group Mechatronics B.V. Hoofdweg 1278**

**NL-2153 LR Nieuw Vennep The Netherlands**

declares with sole responsibility that the product

**ISOMATCH FARMCENTRE in all variants and its accessories**

complies with the following relevant EU regulations:

Directive 2014/53/EU - Radio Equipment Directive (RED)

* Article 3.1a Health
* Article 3.1a Electrical Safety
* Article 3.1b EMC
* Article 3.2 Radio spectrum

Kverneland Group Mechatronics B.V. Nieuw Vennep, 1 September 2021

Sanne de Voogd

Managing Director and authorised representative\*

\*person who is responsible for compiling the technical file and resides in the European Community. See address above.

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