



Rodney Industries

# GPS Fleet Management

for your irrigation equipment



2024





# USING raindancer<sup>®</sup>, YOU ARE ABLE TO MONITOR AND TO CONTROL IRRIGATION VIA SMARTPHONE OR PC.

Using raindancer<sup>®</sup> is very easy and it is available for every irrigation machine.

## What is it about?

- Information at a Glance
- Handling Malfunctions
- Despatching and scheduling Relocations
- Team Management
- Remote Control
- Documentation





# How does it work?

## Irrigation Monitoring via GPS and App

Using raindancer® is very easy and it is available for every irrigation machine. Regardless if it is old or brand-new. It can be mounted on hose reels, pivots and linear machines.



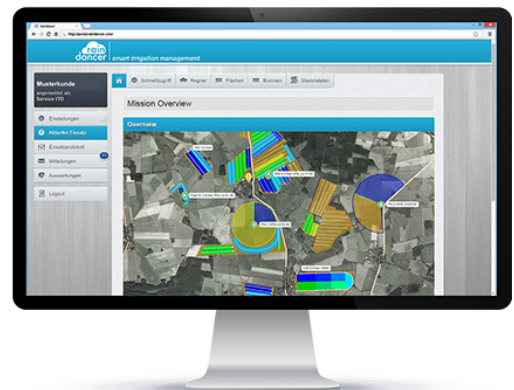
### GPS Solar Module with Pressure Sensor

Continuous Transmission of Position and Pressure



### Smartphone

Compatible with iPhone and Android.



### Maintain Master Data

Web-Browser (Internet Explorer, Firefox, Chrome)

- Fields with Field Borders
- Hose Reels, Wells, Pumps and Meter Units
- Teams, Users and Farms

# What are the benefits of a raindancer<sup>®</sup> system?



## OVERVIEW

At any time, display the maps or the list of machines on your smartphone or pc. Machine location, water application, current water pressure and finish time.



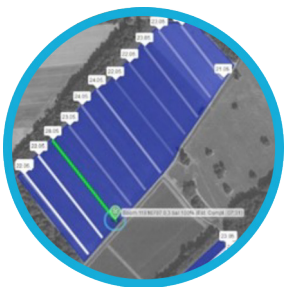
## CONTROL

Irrigation machines can be started and stopped from anywhere. If it starts to rain or it is too hot at noon - just stop from your smartphone. The speed can be adjusted automatically according to stored soil conditions.



## NOTIFICATION

If the machine does not move or the pressure is too low, too high, a text message is sent. Also, upon entering critical zones - e.g. roads or railway lines on impact edge you will be notified via SMS.



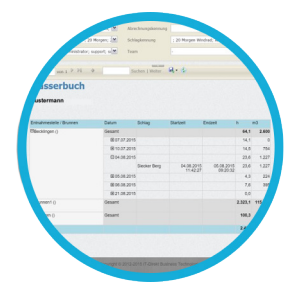
## SCHEDULING

Irrigation runs are shown with detailed information and colour coordinated - planning your next irrigation movements.



## PUMPS

Start and stop pumps via smartphone. In irrigation pipelines, raindancer<sup>®</sup> automatically switches the pumps on and off. If you have a frequency controlled pump, raindancer<sup>®</sup> can adjust the parameters dynamically.



## REPORTS

All data about your irrigation is saved in a database automatically. It is permanently available - reports produced showing water application by hose reel, field or crop. Data may be exported to MS Excel and processed there.



# Hardware and Installation

- **GPS Receiver with Solar-Powered Energy Supply**  
(5 day battery life)
- **Pressure Sensor with Cable**
- **Installation only on the Gun Carriage**  
(no installation on the reel)
- **Suitable for All Irrigation Machines**



## The GPS Module

The raindancer® module is built from an heavy-duty polycarbonite casing and a solar panel covered with a special. It is highly splash water and dust resistant. The complete assembly is mounted on a corrosion resistant aluminum platform. This platform makes mounting to your gun carriage very easy.

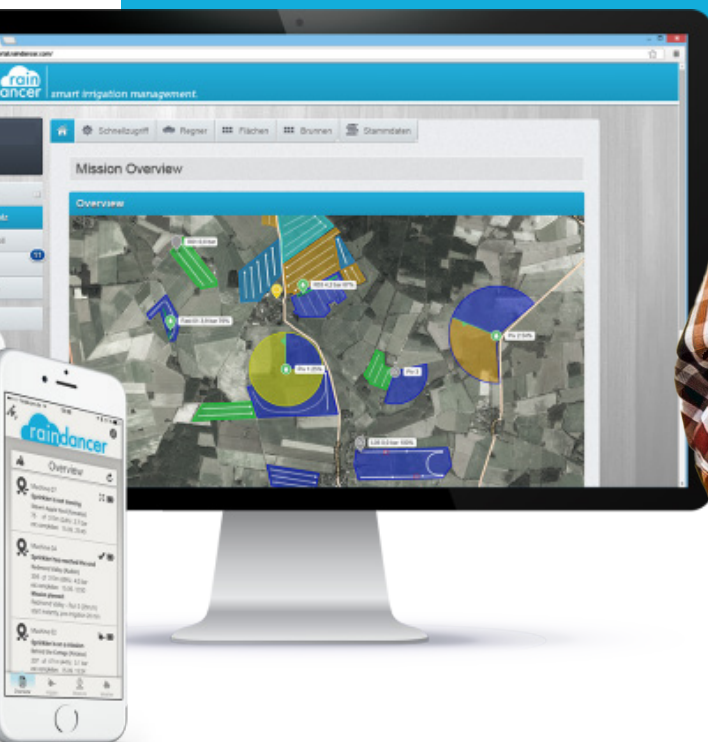
Besides the strong solar panel there is also a 4.000 mAh built-in battery. This combination makes a non-stop usage throughout a complete season possible



# The Software

raindancer® works with a cloud based server-client technology. All data will be transmitted to the server infrastructure and stored securely and properly. You will be granted access to a comprehensive and easy to use online portal. This allows you to access your data at any time, no matter where you are.

In addition to the classic online portal we offer you a completely free app for your smartphone. With this app you will keep track on your irrigations even when you are on track yourself.





# Operation Overview

Identify malfunctions early

Respond quickly when it is needed. raindancer<sup>®</sup> warns you by text message when it comes to malfunctions.

All the details of the irrigation

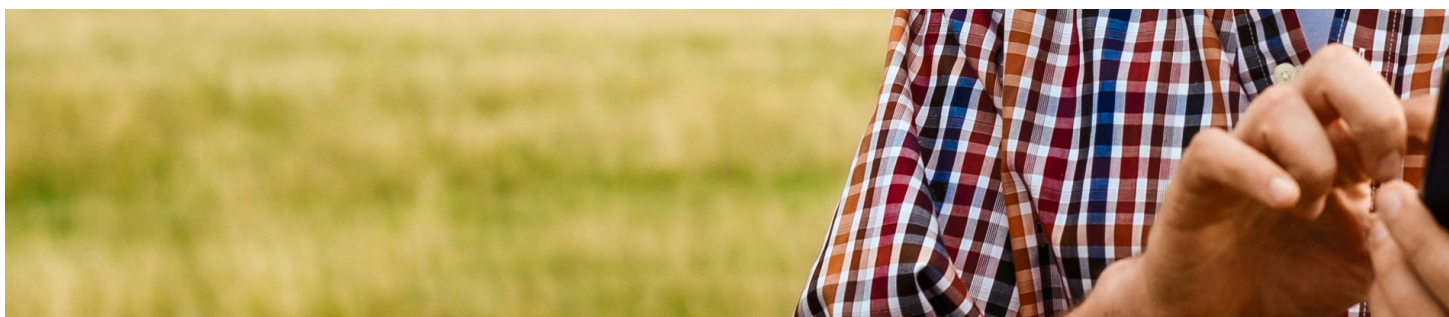
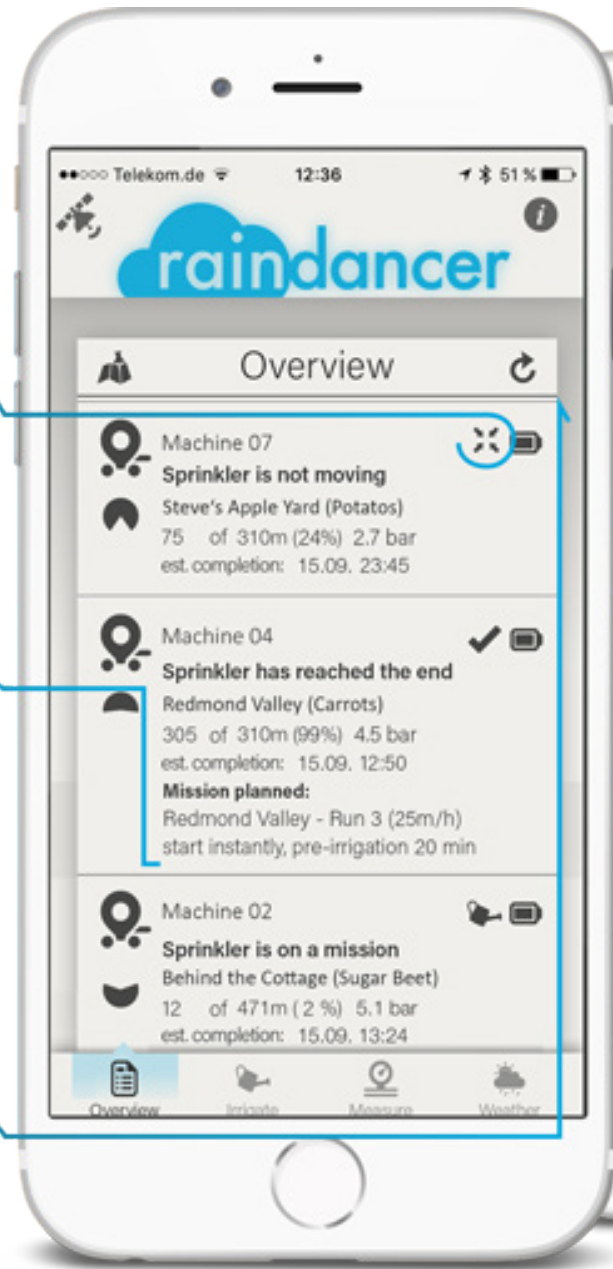
Current location, pressure, and the estimated end time at a glance.

Plan the movement right in the app.

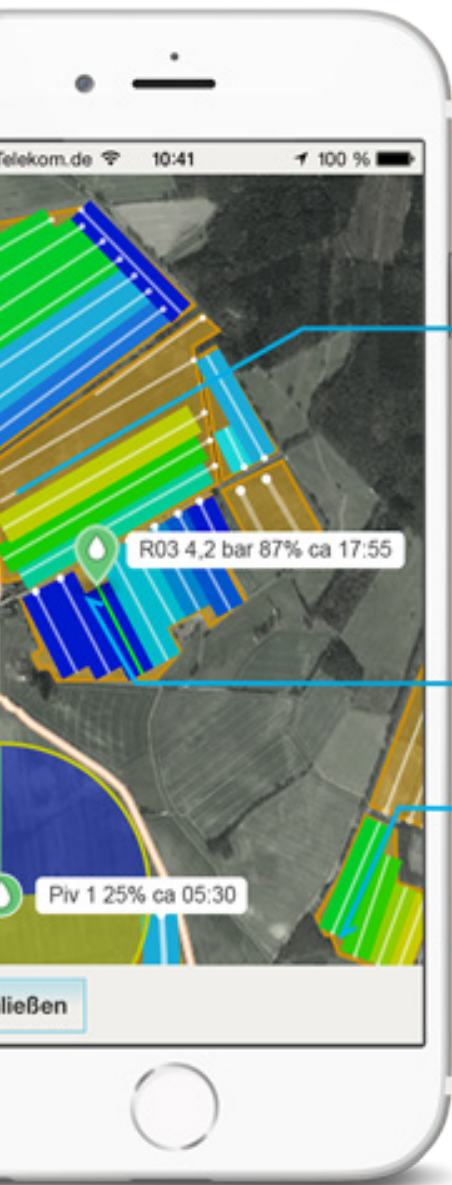
Information at a glance

An intelligent sorting makes it easier to keep you informed.

First, see the machines where there is need for action.







### Planning the next steps

See which irrigation cycles are already done and which are still pending.

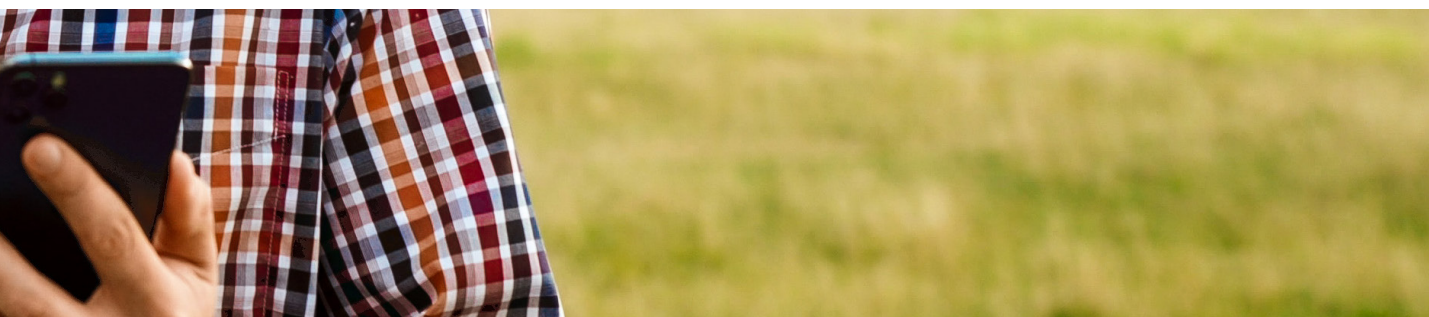
### Overview on the map

At a glance, see the progress of the irrigation.

Know tomorrow what is applicable yesterday

Look at all the details of your recent activity.

Detailed information about times and quantity of water allow a substantiated planning of irrigation.

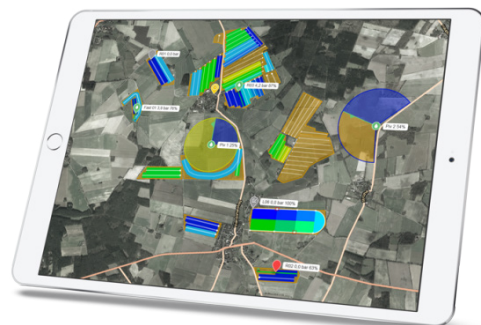




# Planning Relocations

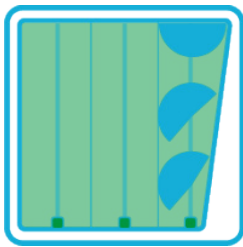


- Build your upcoming relocation plan on base of detailed data so you achieve the most effective Irrigation that is possible.
- The app shows the new area of operation to the employees (Field, Lane)
- The employees will find the correct lane without any problem, even in difficult areas.
- You will keep the complete overview over all your planned activities.



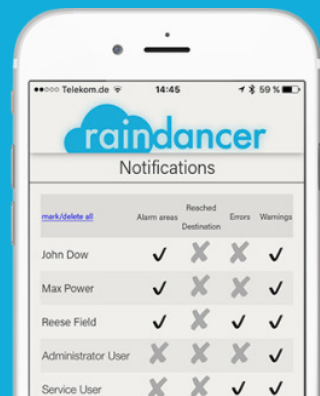
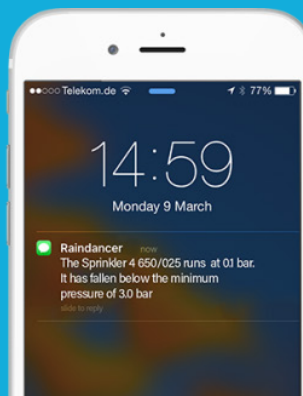
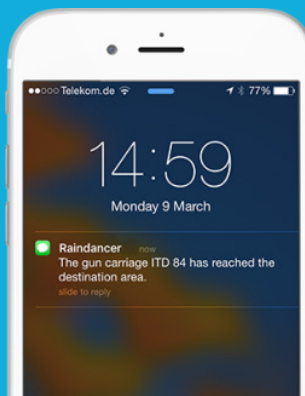
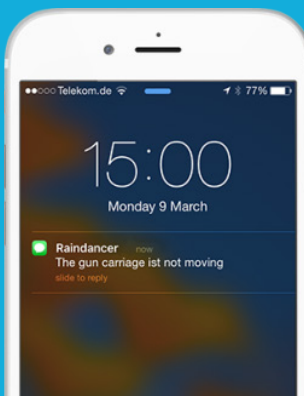
# Auto Speed

- Specify desired irrigation amount in mm.
- The system calculates the speed on the basis of the nozzle, the pressure and the working width.
- If a parameter changes due to narrows, headland or pressure drop, the speed is adjusted automatically.
- The application of Water remains constant over the entire irrigation run.



# Text Messages on Malfunctions

- No Movement
- Pressure Too Low or Too High
- Critical Areas Will Be Reached
- The Gun Carriage Is Tilted





**Rodney Industries**

Phone: 07 3624 0300

Email: [sales@rodneyind.com.au](mailto:sales@rodneyind.com.au)

Web: [www.rodneyind.com.au](http://www.rodneyind.com.au)

