



# IrriCheck

Irrigation Scheduling Specialists

## **Saving water –**

The most threatened natural agricultural resource

Water for agricultural irrigation is becoming increasingly threatened as farmers are required to produce more with less. This can be achieved using IoT sensors and software, but as we enter the data driven 4<sup>th</sup> Industrial Revolution, farmers are increasingly bombarded with technologies that show heaps of data, but which do not translate into any meaningful actions.

At IrriCheck, we will install and maintain your sensors, provide the software and manage the data so that you are simply told when and how much to irrigate on a very user-friendly platform, including an Android and iOS App.

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IrriCheck™ has been providing irrigation scheduling advisory services, software and smart hardware to over **1,500 farms** covering more than **500,000 hectares** in more than **nine countries** since **1998**.

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# Results Driven Irrigation Scheduling Specialists



## TURN-KEY SOLUTIONS



We provide turn-key solutions incorporating **hardware sales** and **installations**, **after sales services**, **software** and **irrigation scheduling advisory services** directly to your PC or Android or iOS phone.



IrriCheck™ has dedicated consulting agents and distributors throughout **Africa**, **New Zealand**, **Australia**, and the **Americas**. They are trained and qualified in irrigation scheduling using the IrriCheck Pulse™ platform and specialise in irrigation scheduling.



Our network of agents and distributors consult on **all irrigated crops**, which provides us with a unique advantage when it comes to crop knowledge and transferring this knowledge and intellectual property between agents and distributors and for the benefit of our clients.



Our consulting agents and distributors are supported by a **team of developers**, **agronomists** and **soil scientists**.



# SOFTWARE

**IrriCheck™ has developed a holistic agricultural irrigation scheduling software platform – IrriCheck Pulse™**

The IrriCheck Pulse™ platform is based on sound agronomic principals, is cloud-based, available on an Android and iOS app, and supported by specialists in the various fields of agricultural science, IT, and hardware technologies.

The platform interprets data from multiple sensors and sources every hour to provide you with live seven-day **forecasted** irrigation recommendation in mm/ inches, m<sup>3</sup> or hours (drip and micro systems).

This is based on volumetric soil moisture readings in mm/m or inches/ foot as well as crop water usage (ETc) derived from capacitance probes. Individual crop phenological models appropriate for age, root depth, soil types, weather forecast data and the irrigation system parameters are also incorporated.

The IrriCheck Pulse™ platform is supported by most manufacturers of soil moisture probes and related hardware which we can also supply and install.

**What makes the IrriCheck Pulse™ platform unique?**  
It simply tells you when and how much to irrigate!



**IrriCheck™ maximises yields and minimises water and electricity usage for our clients by ensuring optimal water application and a healthy soil environment.**

## PRODUCTS



**Soil Moisture Probes**  
(we are agnostic, non-specific and support open source)



**Vapour Pressure Deficit (VPD),  
Heat Units and Cold Units Sensor**



**In-line EC Meters**  
(measuring your irrigation water EC)



**Telemetry Solutions**



**In-line Flow Meters**



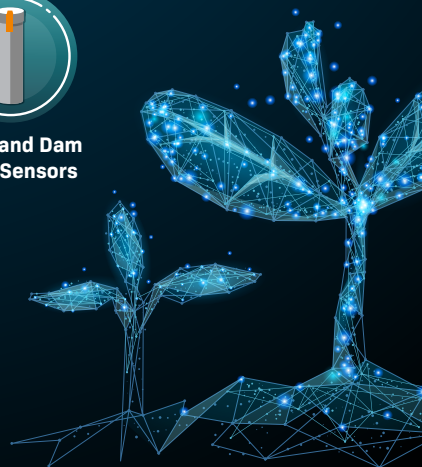
**Canal and Dam Level Sensors**



**Fully Automated Weather Stations**



**Automatic Rain Gauges**



The IrriCheck Pulse™ platform manages over **15,000 soil moisture probes** and over **7000 other IoT based sensors**.

# BENEFITS

## The IrriCheck Pulse™ platform offers the following benefits:

- Reliable, scientific, and technically sound irrigation scheduling recommendations a week in advance and exactly when your crop needs it!
- On-farm site visits and consultations by irrigation scheduling specialists.
- Managed and reliable data.
- Increased yields and quality.
- A healthy oxygenated soil environment benefiting roots and soil biology.
- Water savings and electricity savings.
- Automatically generated warnings and alerts, including frost and heat.
- Being able to focus your energy on farming with irrigation management now an easy quick decision!



## 02 SOIL AND CROP DATA

mm/m or inches/ foot plant available water and daily crop Evapotranspiration. Crop phenological models. Soil characteristics

## 01 PROBE

Expertly placed and calibrated soil moisture probes

## 03 WEATHER DATA

On-farm weather data from weather stations as well as weather forecasts are automatically transmitted to the IrriCheck Pulse™ platform

## 07 SUPPORT TEAM

Team of horticultural soil scientists, irrigation specialists and your personal IrriCheck™ agent or distributor

## 04

### IRRIGATION SYSTEM PARAMETERS

Unique to the crop and farm

## 05 IRRICHECK PULSE™ CLOUD

Data from the probes, soils, crops, weather forecasts, weather stations, VPD, heat units, cold units, flow meters, rain gauges, in-line EC meters is all collated, processed and stored in the IrriCheck Pulse™ Cloud, enabling real-time decision-making

## 06 IRRICHECK PULSE™ LIVE RECOMMENDATIONS

Seven day forecasted recommendations in mm/ inches, m3 or hours. Live, web-based irrigation recommendations according to crop phenology, per orchard/ block provided on the IrriCheck Pulse™ platform

With industry leading accuracy

IrriCheck  
pulse™



## AWARDS

### **2012 Winner**

of the South African  
Department of Water  
Affairs Water Conservation  
and Water Demand  
Management Sector Award

### **2012 SANCID Awards**

nomination in the  
Management Sector  
category

### **2011 Second place**

in the ICID Awards in  
the Farming category

# We are international!

Visit our website for more information at  
**[www.irricheck.com.au](http://www.irricheck.com.au)**

To contact an agent or distributor in  
your area or for technical advice, kindly  
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