

Guide:

# Professional radio remote control

- And why you can benefit greatly from it

**Radio remote control of machines has been around for decades. However, these systems have not always been developed with operator safety and equipment durability in mind. In this guide, we explain the concepts and benefits of using Scanreco's technologically advanced and rugged radio control systems, and give you tips on what to consider when choosing a system that best suits your needs.**

Not only can radio remote control reduce wear and tear on machines and equipment, it also significantly boosts operator safety. With radio control, you can stand at a safe distance and still have full, real-time command of your machinery.

With advancements in electronic controls and radio frequency protocols, there are basically no restrictions on what can be controlled by radio. So, the question is simple: What do you want to remote?

## This is Scanreco

- *A 35-year global innovator in advanced radio remote control systems and equipment.*
- *In close collaboration with our customers, all systems are engineered and manufactured in Sweden and the USA for safety, ruggedness and reliability.*
- *Approximately half a million systems sold worldwide. Many are still in operation in harsh conditions and climates.*
- *Founded in 1984 in Södertälje, Scanreco is privately owned and is still run by its founders.*
- *Scanreco offers worldwide design, manufacturing, sales and support networks.*

**The market for professional radio control has grown significantly since the 1980s. Today, radio remote control is standard equipment on nearly all types of mobile hydraulic equipment, enhancing efficiency and safety while driving down operating costs.**

The first attempts at radio control took place as early as the 1960s. Safety was low and accidents with so-called "self-propelled cranes" were frequent.

During the 1980s, leading companies in the field, together with safety standard agencies in Sweden, Germany and other countries, began to develop protocols and guidelines for professional and secure systems. The advanced systems available today represent the technological evolution of the actuators and radio receivers of previous generations.

Today, there are essentially no limits to what you can radio control: agricultural and aquaculture equipment, aircraft tugs, forest machinery, concrete pumps and mixers, marine davits, winches and hydro-excavators are just a few examples of the wide array of machines that can be controlled remotely and safely.



## For personal and machine requirements



### Pocket

The little one that fits in your pocket but has many functions. Withstands both hard grip, dirt and water. Particularly suitable for irrigation systems, lawn mowers, gates and lighting.



### Rocket Flex

The flexible multi-tasker for, for example, suction trucks, concrete sprayers and lifts. Combined with Mini or Maxi, it becomes even more useful in all situations and weather.



### Maxi

The powerful and robust for large machines and complex systems. Steer most things with joysticks, paddle levers and buttons in an ergonomically designed frame.



### Mini

The tough one's little brother does everything that Maxi does but in a smaller format. Rain, debris, cold or scorching sun do not matter.

# The benefits of radio control your equipment

## Safer work environment

You can operate equipment at safe distance from dangerous and heavy loads. Workers can move around instead of being teathered to stationary equipment.



## Better views of work area

You can move during the work and follow what you maneuver from a safe distance and from different angles during the work.

## Better ergonomics

Control options like paddles and joysticks allow operators to precisely control even the largest mobile hydraulic equipment. With Scanreco-designed accessories like neck straps, waist belts and shoulder harnesses, operators can work efficiently and comfortably all day long while reducing the risk of costly injuries.



## Increased performance

Load and unload both faster and more efficiently. Reduce jobsite staff and the potential for catastrophic injuries. Workers can perform calmly, safely, and methodically to avoid unnecessary incidents.

## Simplified everyday life

It is so much easier to work with radio control no matter what you work with versus fixed workstations.



## Lower operating costs

In addition to boosting the operating life of equipment through more efficient usage, radio remote control can reduce costs related to workers comp and liability insurance.

## Reduced environmental impact

With radio remote control, fewer workers are often needed for the same job. This helps your company reduce its carbon footprint and saves on fuel and insurance costs. The need to run many meters of cable to be able to start and shut down functions for, for example, irrigation systems is reduced.



## Energy consumption control

By, for example, being able to control different heat sources, lighting devices and machines very precisely so that they are only used when needed, you get full control of energy consumption.

# Never-Stop Technology™ – reliable radio control systems for those who need it most

Construction sites, mines, forests, docks, and busy highways are often intense work places. Therefore, it is vital that your equipment can perform in these extreme situations. Scanreco is committed to delivering systems that work in all types of weather and work environments. We call it Never-Stop Technology™:

## Ingress and water protection

Microparticles and water are devastating to mission-critical electronics. That is why all Scanreco circuit boards are covered by a protective seal, and our transmitters and receivers meet a minimum IP65 rating.



## Vibration resistant

Vibration from the ground or the machine itself can be problematic. Scanreco equipment is carefully tested to handle extreme stresses like vibrations from stone crushers and demolition equipment.



## Few access points

Through detailed design, we have minimized the use of open access points. Physical connections are carefully embedded and tested.

## High quality components

System components have been carefully selected by Scanreco engineers to ensure trouble-free operation for many years.



## Works without battery

If the battery discharges, you can connect our Mini and Maxi transmitters via cable to continue work for as long as you need.

## Ergonomic design

Scanreco transmitters are designed for professionals who use our products all day, every day. Controls are carefully dimensioned and placed for precision and comfort.



## Electrical protection

Connections on Scanreco receivers are protected against short circuits and voltage fluctuations.



## Reduce downtime

No need for complicated programming or reinstallation if a part is damaged. Replace the part and you are up and running again. A built-in error log and display facilitates troubleshooting.

## Extreme temperatures

Bitter cold and extreme heat are a given in outdoor work. Our Swedish-tough design ensures uptime.



## Frequency hopping technology

Our proprietary radio technology ensures connectivity and continuous operation in high-noise environments where many different radio systems are running at the same time.



**Do you have questions about Never-Stop Technology™ or radio remote control? Do not hesitate to contact us:**

[info@scanreco.com](mailto:info@scanreco.com)

View full list of distributors on [www.scanreco.com](http://www.scanreco.com)



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