



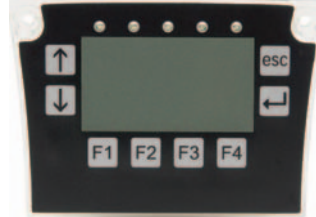
The Mini control units are contained inside durable capsules in a weather resistant design which copes with the toughest and most demanding of environments. The Mini control units are of low weight, innovative, ergonomic, and have a functional design. The Mini control unit can be provided with 1-6 manoeuvre levers.



The Mini control unit can also be provided with 2 or 3 joysticks at a universal and variable speed with X/Y-axis or with Z-axis (2-0-2 / 2-2-2 / 2-3-2 / 3-2-3).



Scanreco in action.



The Mini control units can be equipped with light emitting diodes (LEDs) and/or graphic display (LCD) for indication and reading of values from the crane/machine and menu/function choice- keys.

## Developed for demanding environments

Scanreco's system is built and designed for the toughest and most demanding of environments. Scanreco can hereby offer the market of crane and machine operators an extremely easy to use radio remote control retaining speed, precision, and control with the maximum of safety.

Behind the development of the radio remote control systems lies the idea of providing products with a high degree of reliability, user-friendliness, and possessing good ergonomic features.

The product family includes different control units, hand transmitters, and receivers offering a variety of choice depending on the area of use. These products are based on a modular architecture, which makes them extremely flexible to customize and adapt according to the customer's needs.

The products – which are in high demand - are mainly mounted on cranes and mobile machines. Our customers are some of the world's largest and most challenging crane and machinery manufacturers. Thousands of cranes and machines containing Scanreco's radio remote control systems are in use worldwide.

Our products are deployed everywhere, from truck cranes laying heating pipes in Stockholm to lifting oil pipelines in Russia and setting in place concrete sections in Israel.

## Scanreco – freedom in a box

**Our customers development is our own development. This enables us to offer:**

- **Customer-specific solutions**
- **Industrial know-how**
- **Expertise and experience**
- **Innovative capacity**
- **Nimble organisation**
- **Quality**
- **Delivery precision**
- **Service**

**[www.scanreco.se](http://www.scanreco.se)**

**The Control Unit:**

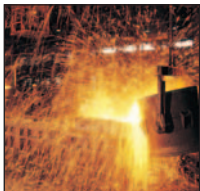
- The units can be equipped with manoeuvring levers or joysticks.
- The control units have an emergency stop to immediately halt all of the crane/machine's movement and functions.
- The control units can be equipped with a large number of toggle switches and levers for functions such as the starting and stopping of the vehicle motor, a sound signal, an automatic throttle control when rising and changing the flow of concrete pouring etc. All control levers and toggle switches offer an excellent touch and are of high quality.
- The crane/machine's operational speed remains in direct proportion to the manoeuvre lever's displacement.
- The radio transmitter and its antenna are built-in. A LED and sound signal indicate, among other things, the operational and battery status and offer the possibility of carrying out easy failure detection.
- The Micro operation is standardized, i.e. reduces the speed to five steps, for example, 60%, 50%, 40%, 30 % and 20% of the crane's normal speed.
- The battery is located in the control unit and can be easily replaced.
- The control unit can also be provided with light emitting diodes and/or graphic display for indication and reading from the crane/machine.
- The radio remote control can be used in combination with all of the hydraulic valves currently available on the market.

**Safety:**

Each radio remote control system functions in all manner of operational conditions equipped with their own unique identity code (ID-code). This means that only the correct control unit can activate and control its matching receiver (crane/machine). For maximum safety the receiver has double processors to enable comparison and checking of the data signals from the control unit. The receiver on the crane operates with a so-called automatic emergency stop, i.e., dump-valve and all of the crane movements are only activated as long as the verified data signals are received from the actual portable control unit. The emergency stop function is in accordance with EN954-1 cat. 3.

**Approvals:**

Scanreco's radio remote control system meets the EU's Machine- and EMC-directive (CE-mark) and is approved and complies with the special demands and standards for "Remote controlled lifting devices" in accordance with 89/336/EEC, EN954-1, EN301489, EN300 220-3, and R&TTE 1999/5/EC. The radio unit is also certified in several countries outside of Europe. Scanreco is additionally certified in accordance with EN ISO9001-2000.

**Applications:****Control Unit/Mini**

- **1-6 manoeuvrable levers.**  
**or**
- **2 or 3 joysticks (Stepless variable speed in X/Y-axis or with Z-axis).**
- **A emergency stop function with category 3 in accordance with EN954-1.**
- **ON/OFF: May be equipped with a large number of toggle switches for ON/OFF-manoeuvering or function changes/menu choice.**
- **All of the functions are protected against mechanical damage within a protective frame.**
- **Radio communications take place within the 433-434 MHz band range with radio channel inter-change to ensure interference free operation. (Other frequencies are available on request or to comply with the country's existing regulations).**
- **A neck strap is included (different types of carrying devices are available as accessories including a waist belt, shoulder belt, carrying hook etc.**
- **Weight: approx. 1.4 -2.0 kg incl. battery (depending on equipment). IP: 65**
- **Operational time: Approx. 10 hours on a single charging (NiMH).**
- **Recommended receivers: G2, G2S or G3.**
- **Offers the opportunity to replace earlier control unit models from Scanreco.**

**Option:**

- **Tiltswitch: An angle detection feature which switches off the portable control unit if the operator drops the portable control unit, or if it falls over, or rolls away.**
- **The control units can be provided with light emitting diodes (LEDs) and/or graphic display (LCD) for indication and reading of values from the crane/machine.**

**www.scanreco.se**