



DCH RADIO R10 Handheld Remote Control Instruction Manual

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Introduction

Welcome to use industrial remote control products. Each of our products has undergone strict testing before leaving the factory. Please rest assured to use it.

Before installing and using this product, please patiently read this manual and count the various accessories and accompanying drawings inside the packaging box to avoid incorrect voltage during installation and burning the receiver.

We are a high-tech enterprise dedicated to the research and development, production, and sales of industrial radio remote control systems. Our customers are distributed in many industries, including crane equipment, construction machinery, construction equipment, high-altitude operation equipment, engineering special vehicles, agricultural and forestry equipment, as well as special industries such as municipal fire protection, mining, tunnel construction, port and marine engineering, and oil extraction, our products have mature customer using cases; our products are of stable and reliable quality, and have passed EU CE and FCC certification. Currently, our products are exported to many countries and regions around the world.

our products include handheld remote controllers, mainly used for remote control of cranes and other simple equipment. Shoulder belt remote controllers are mainly used for remote control of more complex equipment, such as large tonnage cranes, pump trucks, aerial work vehicles, mobile AGVs, shield tunneling machines, firetrucks, mobile crushers, etc. R series receiver supports IO output, analog output, RS485busoutput, RS232 bus output, Can bus output, Profibus DP output, PWM out put, Can open output, ProfiNet output, Device Net output, J1939 output, etc.

Transmitter H series parameter models:

DCH-H, DCH-H21, DCH-H22, DCH-H31, DCH-H32, DCH-H51, DCH-H5 2, DCH-H41, DCH-H42, DCH-R10, DCH-R15, DCH-R20 etc

Emergency stop switch: mushroom head type, in accordance with EN13849-1 standard

Protection level: IP65

Operating element: 4 8 12 double speed self reset buttons

Key identification: arrows, text, symbols, or customer defined

Smart key: iKey (remote control keys of the same model are interchangeable)

Size: 120 * 60 * 35mm (4 buttons) 180 * 60 * 35mm (8 buttons) 240 * 60 * 35mm (12 buttons)

Buttons: 4/8/12 single speed/dual speed self reset buttons

Material: PA6+30%GF

Weight: 120g-360g

Antenna: inside

Start method: Rotate the emergency stop button and press the start button for 2seconds(A series short + long press start button, please refer to drawings attached).

Continuous operation time: more than 500hours(2AA batteries used at room temperature)

Typical applications: single and double beam cranes, European cranes, ground pumps, vehicle mounted pumps, and other equipment;

APO (automatic shutdown): Standard configuration for 30 minutes

Power supply: H series 2 piece AA batteries Power supply: A series 3 piece AA batteries

Control distance: ≥ 150 meters (in an open environment, the transmitter and receiver are both tested at a standard distance of 1 meter from the ground);

Working temperature range: -40 °C~+80 °C Center frequency range: 433-434MHz;

LED indicator light: operation indicator/battery status

Key lifespan: ≥ 2 million times

R-series receiver parameter

Model: R10; R15;R20

Temperature range: -40 °C~+80 °C

Frequency range: 433-434 MHz

Relay capacity: 10A/250VAC

Relay life: greater than 5 million times

LED indicator light: operation status indicator/RF signal

Antenna: External (standard with soft antenna, other antennas require special customization)

Shell material/protection level: IP65

Relay output: 10, 15, 20 relays

Output interface: heavy-duty connector, cable optional

Size: 220 ×120×75mmWeight: 1000g

Shell material: ABS

Protection level: IP65

Relay capacity: 10A/250VAC

Transmitter:

- H21 4 single button
- H22 4 double button
- H31 8 single button
- H32 8 double button
- H41 10 single button
- H42 10 double button
- H51 12 single button
- H52 12 double button

Receiver Power:

9-36VDC

30-420 VAC

Installation and operation of remote control system

Installation instructions

Handheld series remote control can be used in conjunction with various specifications and models of cranes or equipment

Remark for receiver installation

Please pay attention to safety when climbing the crane. Before installation, please be sure to turn off the main power supply of the crane, and live installation is strictly prohibited. When there is a frequency converter near the receiver, the distance between the receiver and the frequency converter must be greater than 2\ meters, or the receiver should be installed in a shielded metal box, and the distance from the antenna should be as far away as possible from the frequency converter. The receiver antenna should be installed as high and open as possible to avoid affecting the reception signal.

Installation of transmitter

Battery installation: Please check the battery level before installation to avoid insufficient voltage that may cause the machine to fail to start.

Technical Support Maintenance and Fault Description

Please be noted that each transmitter and receiver is matched one to one and the frequency and address code are preset correspondingly, If the customer purchases two transmitters to control one receiver at the same time, there may be a situation where two operators control one device at the same time, resulting in equipment failure or unpredictable conditions. The consequences will be borne by the customer.

Maintenance

1. The high-frequency module components in the Dechi remote control system enjoy one year of free maintenance during standard operating hours (non human damage)
2. Provide one-year and lifetime warranty services for other components.

Common fault issue and solutions

Malfunction	Possible reason	Solution
Transmitter does not respond	No power supply or low battery	Check if the battery power is sufficient Replace transmitter battery
Transmitter keeps flashing red	Emergency stop unopen	Press up the emergency to turn it up
The transmitter blinks green, but the receiver no response	Malfunction of receiver	Check that the receiver is powered on normally Check whether the serial number of the receiver and transmitter is consistent or not (need to match one to one)
Some buttons do not work	Malfunction of receiver	Check if the cables of receiver is loose or disconnected
Flashing green light after startup and then flashing red light	Intelligent key not recognized	Check whether the Intelligent key is installed correctly
After the transmitter starts normally, the crane will automatically trip	same frequency interference	Replace the Intelligent key

Safety instructions

Purpose

Wireless remote control systems are used to remotely control controlled systems or devices, improving the convenience and efficiency of the entire controlled system's operation, and improving the safety of operators.

Warning message

There are high-voltage components inside the receiver, please ensure that the power supply of the receiver has been disconnected before opening.

In emergency situations or when the crane or other controlled equipment malfunctions, please immediately press the emergency stop switch on the transmitter to enter a safe state of the system. Prohibit use on the sender's device

Prohibit modification, removal, and bypass of safety circuits in wireless systems; It is prohibited to modify any part of the entire emergency stop circuit of the wireless remote control system. The wireless remote control system is prohibited from being used in explosion hazardous areas Do not use two or more transmitters simultaneously to operate the same device

Do not use the same frequency (or within a range of 300 meters) in the same factory area to avoid mutual interference

Specifications

Hardware Version: 23043012
Software Version: /

Transmitter	
Frequency Range	433.5MHz
Channel Number	1 channel
Modulation Type	FSM
Antenna Description	Internal Antenna, 0dBi(Max)
Receiver	
Frequency Range	433.5MHz
Channel Number	1 channel
Modulation Type	FSM
Antenna Description	External Antenna, 0dBi(Max)

(Max power: 2.65dBm)
Extreme temperature: -20-45°

Manufacturer: DCH RADIO LIMITED COMPANY
Address: No 389, ZHAOJIAJINGROAD, SONGJIANG DISTRICT, SHANGHAI, CHINA
Importer: XXXXX
Address: XXXXX

FCC Warning :

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)This device may not cause harmful interference, and **(2)** this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.



Documents / Resources

	<p>DCH RADIO R10 Handheld Remote Control [pdf] Instruction Manual</p> <p>DCH-H, DCH-H21, DCH-H22, DCH-H31, DCH-H32, DCH-H51, DCH-H52, DCH-H41, DCH-H42, DCH-R10, DCH-R15, DCH-R20, R10 Handheld Remote Control, Handheld Remote Control, Remote Control</p>
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