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DCH ECD Joystick Remote Control



Product Information

Welcome Message

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

Installation and Usage Instructions

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.

About DCH

DCH is 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. DCH products have mature customer use cases; DCH products are of stable and reliable quality, and have passed EU CE and FCC certification. Currently, DCH products are exported to many countries and regions around the world.

Product Overview

DCH 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, fire trucks, mobile crushers, etc. DCH R series receiver supports IO output, analog output, RS485 bus output, RS232 bus output, Canbus output, Profibus DP output, PWM output, Canopen bus output, ProfiNet output, DeviceNet output, J1939 output, etc.

Specifications

Model	DCH-S24, M48, D24, D48, C24, V48 etc.
Size	<ul style="list-style-type: none">• 230mm × 140mm × 100mm (S series)• 270mm × 160mm × 100mm (M series)• 270mm × 160mm × 100mm (D series)• 270mm × 160mm × 180mm (V series)
Material	PA6 + 30% GF
Weight	1500-3000g (actual weight depends on the number of panel switch rocker rods)
Antenna	Internal or external
Start Method	Press the start button for 2 seconds, or toggle the switch to start the machine. Please refer to the drawing for details.
Emergency Stop Switch	Mushroom head type, conforming to EN13849-1 standard
Protection Level	IP65
Operating Components	Customized according to customer requirements
Smart Key	DCH iKey (remote control keys of the same model are interchangeable)



Performance

- 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: $-25\text{ }^{\circ}\text{C} \sim +70\text{ }^{\circ}\text{C}$
- Center frequency range: 433-434MHz
- LED display screen: operation instructions/battery status and other information
- Optional 2.8 inch, 3.5 inch, 5 inch, and 7 inch displays
- Power supply: 2500mah or 3500mah lithium battery
- Continuous operation time: more than 24 hours (used when fully charged)
- Charger charging time: 3-4 hours

- APO (automatic shutdown): Standard for no shutdown (adjustable)
- Additional features: safety shutdown function, LED feedback function, multi to one function, one to multiple function, multi to multiple function, tilt switch, vibration alarm, wired control function etc.
- Typical applications: excavators, grinders, shotcrete machines, fabric spreaders, wet sprayers, ship unloaders, track laying machines, tower cranes, mobile crushers, pump trucks, shield tunneling machines, fire trucks, fabric spreaders, chain saws, rock drills, special robots, engineering vehicles, special drilling equipment, and other equipment that require remote control.



Receiver Specifications

If necessary, please ask our sales for details. Please refer to the drawings for the details agreement. If necessary, please ask our sales for details.

- Output interface: heavy-duty connector, cable optional
- Dimensions: refer to drawings for specific details
- Shell material: engineering plastic
- Protection level: IP65
- Temperature range: -25 °C~+70 °C
- Frequency range: 433-434 MHz
- LED indicator light: operation status indicator/RF signal
- Installation accessories: installation of 4 cushioning pads

- LED indicator light: operation status indicator/RF signal
- Antenna: External (some customers customize antennas, please refer to the drawings for details)
- Power supply: 9-36VDC or 30-420 VAC
- Model: DCH-BM; DCH-BC; DCH-BP; DCH-BN; DCH-P14; DCH-P28; DCH-P42;
- Receiver output: Relay, AO, Modbus RTU 485, Modbus RTU232, Can2.0, PWM, Canopen, Profibus-DP, ProfiNet, SAE-J1939, etc. Please refer to the drawings for the specific agreement.



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 or 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 be matched 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

Contact Information

- Company Name: DCH RADIO LIMITED COMPANY
- Company address: No. 389 Zhaojiagong Road, Songjiang District, Shanghai
- Contact number: 021-67629680021-67629681
- Mobile phone: 18117350677 (WeChat account also)
- Company website: www.dch-radio.com

FCC Statement

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.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition, compliance with exposure requirements.

Frequently Asked Questions

- **Q: Can I modify the device on my own?**
A: No, any changes or modifications not explicitly approved by the manufacturer could void your authority to operate the equipment.
- **Q: What should I do if the device causes interference?**
A: If the device causes interference, ensure it is operated as per the instructions. The device must accept any interference received.

Documents / Resources

	<p>DCH ECD Joystick Remote Control [pdf] User Manual</p> <p>ECD Joystick Remote Control, Joystick Remote Control, Remote Control</p>
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References

- [User Manual](#)

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