



Safety • Remote Control

(Xia Ding manufactures secure remote controls; safety is our priority)

Industrial Wireless Remote Control Selection Guide



Safety • Remote Control

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Nanjing Xiading Electronic Technology Co.,Ltd.



Nanjing Xiading Electronic Technology Co., Ltd. is a world-leading manufacturer of wireless remote control systems. With over a decade of professional experience in R&D, production, manufacturing and sales of industrial remote controls, it has obtained certifications from major industrial countries and regions worldwide (including the EU, the US, the UK, Japan, Canada, Italy, Portugal, Belgium) and its products are sold to more than 100 countries and regions across Europe, the Americas, Asia and Australia.

Focusing on fields such as lifting equipment, engineering vehicles, construction machinery, automobile manufacturing, industrial automation, shipbuilding and nuclear power generation, the company provides safe, reliable and market-competitive industrial wireless remote control products, aiming to improve the operational efficiency of industrial equipment through wireless remote control technology.



What Have We Brought to the World?

- Creating Value for Customers**

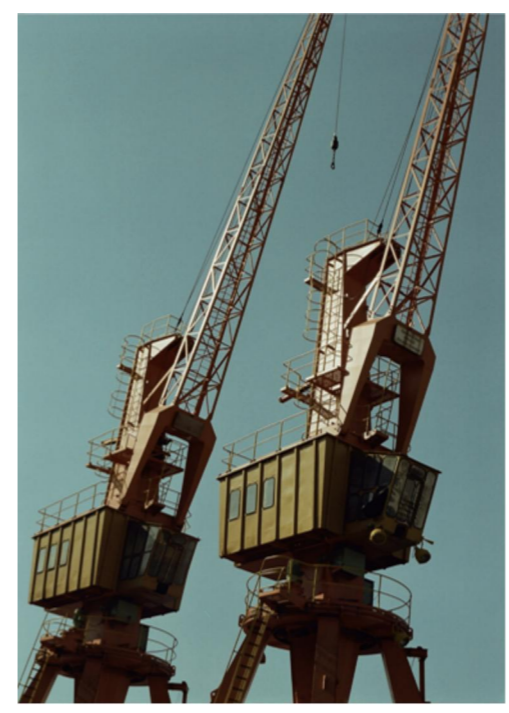
Dedicated to providing high-quality and innovative solutions that meet customer needs.
- Promoting Sustainable Social Development**

Committed to wireless transmission of global industrial electrical commands; providing energy-saving and environmentally friendly products and solutions throughout the product lifecycle (planning, design, R&D, manufacturing, delivery, operation and maintenance).
- Promoting Healthy Industrial Development**

Advocates openness, cooperation and win-win; joins standard organizations/industrial associations/open-source communities to participate in industry standard-setting and build a win-win ecosystem.
- Promoting Economic Growth**

Contributes to local taxation and employment; drives the intelligent transformation of industries through innovative solutions to improve work and quality of life.
- Employee Value**

Provides platforms for career and personal development (corporate culture, benefits, teamwork, challenges, ability improvement); values employees' customer service capabilities.



Our cornerstone

Xiading Electronics will continue to focus on the wireless remote control system of electrical command and the intelligent terminal control system of electrical automation, and make steady and continuous investment in products, technologies, basic research, engineering capabilities, standards and industrial ecology, adhere to the customer-centered principle, live up to the historic opportunity generously given to us by the times, and build the cornerstone of the company to build safer and more convenient wireless command products and intelligent control systems.

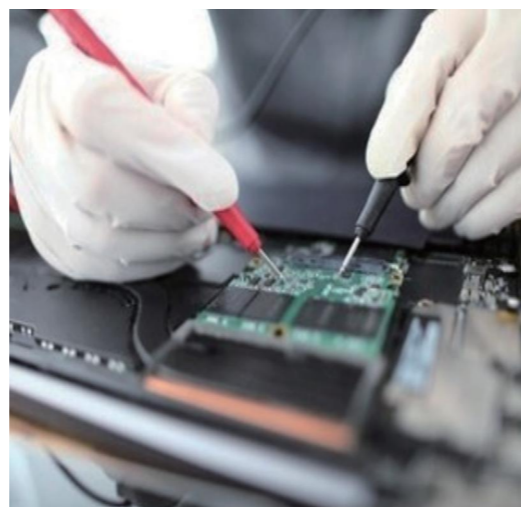


Research & Development

Xiading is committed to transforming leading technology into better and more competitive product solutions to help customers achieve business success, thus driving their own human resources and financial indicators to increase value.

Xiading has made some research achievements in future-oriented basic research and innovation, hoping to contribute to the development of the industry with the help of technological innovation breakthroughs, and will continue to actively explore wireless and intelligent, and make progress in comm- and wireless exchange and intelligent control.

Xiading and the world's outstanding resources jointly carry out open and innovative cooperation to jointly promote the development of wireless and intelligent technologies. We are open and cooperative with many research institutes, units and scholars in various professional fields such as product industrial design, wireless data transmission and intelligent control, adhere to open technological innovation, promote win-win cooperation between production, education and research, give attention to personnel training, develop advanced algorithms, and solve basic problems of technology development, manufacturing process and practical application by using basic physics concepts.



CORPORATE HONORS



Private high-tech enterprises



ISO9001certificate



CE certificate



FCC certificate



Over 30 Appearance Patents



Over 30 Utility Model Patents



Over 20 Software Copyrights



Over 10 Explosion-Proof Certificates

Applicable to: Electric cylinder valves, PLC analog control

- ※ Durable, waterproof, dustproof, and ergonomic
- ※ Dual CPU encoding/decoding for reliable data communication
- ※ Well-designed joystick with a service life of up to 1 million times
- ※ Real-time active control, compliant with EU standards
- ※ Up to 32 I/O outputs and 10 AO outputs
- ※ Optional: display screen, fingerprint recognition, wire control



Application Scope

Truck-mounted cranes, aerial work platforms, crawler cranes, grinders, shotcrete machines, distributing machines, ship unloaders, agricultural tractors, track-laying machines, tower cranes, mobile crushers, pump trucks, trailer pumps, drilling rigs, AGVs, sanitation vehicles, fire trucks, electric construction vehicles, agricultural equipment, special robots, engineering vehicles, train locomotives, special drilling equipment, and other remote-controlled devices.

Parameter	
Frequency Band	420MHz~450MHz; bandwidth 125Khz
Transmission Power	≤100mW
Receiving Sensitivity	-115dbm
Wireless Distance	≥100m (other distances optional)
Operating Environment	Temperature: -35°C; Humidity: 0%-97%rh (anti-condensation; other temperatures optional)
Protection Level	IP65
Transmitter Operation	Joystick, toggle switch, Push Button
Transmitter Power Supply	7.4VDC3000mAh
Transmitter Fault Alarm	Display screen or LED indicator
Transmitter Antenna	Built-in
Receiver Power Supply	12V-30VDC
Receiver Rated Power	<10W
Receiver Fault Alarm	LED status indicator
Receiver Antenna	External suction cup antenna
Relay Contact Capacity	8A/250VAC
Analog Output	8 channels (-10V~0V~+10V, 0V~+10V, 0V~+5V), 5 channels (25%~50%~75% Us for Danfoss solenoid valves), 4 channels (4~20mA); customizable
Receiver Output Interface	*Wirable (with heavy-duty HAN32 plug-in)
Safety Control	Dual CPU real-time closed-loop monitoring; real-time monitoring of actual output data; active emergency stop + passive power-off control
Safety Standard	EN ISO13849-1:2015 PL d
Export Certification	CE, FCC

Applicable to: Various bus control

- ※ Durable, waterproof, dustproof, and ergonomic
- ※ Dual CPU encoding/decoding for reliable data communication
- ※ Well-designed joystick with a service life of up to 1 million times
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Transmitter Operation	Joystick, toggle switch, Push Button
Transmitter Power Supply	7.4VDC3000mAh
Transmitter Fault Alarm	Display screen or LED indicator
Transmitter Antenna	Built-in
Receiver Power Supply	12V-30VDC
Receiver Rated Power	<10W
Receiver Fault Alarm	LED status indicator
Receiver Antenna	External suction cup antenna
Relay Contact Capacity	8A/250VAC
Bus Type	RS485, CANOpen, Modbus-RTU, TTL
Receiver Output Interface	HAN4 or RJ45
Safety Control	Dual CPU real-time control
Safety Standard	EN ISO13849-1:2015 PL d
Export Certification	CE, FCC

Applicable to: Various I/O control fields

- ※ Durable, waterproof, dustproof, and ergonomic
- ※ Dual CPU encoding/decoding for reliable data communication
- ※ Well-designed joystick with a service life of up to 1 million times
- ※ Real-time active control, compliant with EU standards
- ※ Up to 32 I/O outputs and 10 AO outputs
- ※ Optional: display screen, fingerprint recognition, wire control



Application Scope

Truck-mounted cranes, aerial work platforms, crawler cranes, grinders, shotcrete machines, distributing machines, ship unloaders, agricultural tractors, track-laying machines, tower cranes, mobile crushers, pump trucks, trailer pumps, drilling rigs, AGVs, sanitation vehicles, fire trucks, electric construction vehicles, agricultural equipment, special robots, engineering vehicles, train locomotives, special drilling equipment, and other remote-controlled devices.

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Protection Level	IP65
Transmitter Operation	Joystick, toggle switch, Push Button
Transmitter Power Supply	7.4VDC3000mAh
Transmitter Fault Alarm	Display screen or LED indicator
Transmitter Antenna	Built-in
Receiver Power Supply	12V-30VDC (other options available)
Receiver Rated Power	<10W
Receiver Fault Alarm	LED status indicator
Receiver Antenna	External suction cup antenna
Relay Contact Capacity	8A/250VAC
I/O Output	19-channel digital output, 32-channel digital output, 14-channel digital output + 8-channel digital input; customizable
Receiver Output Interface	Wiring / aviation connector
Safety Control	Dual CPU real-time control
Safety Standard	EN ISO13849-1:2015 PL d
Export Certification	CE, FCC

Load-sensitive PWM proportional valves

- ※ Durable, waterproof, dustproof, and ergonomic
- ※ Dual CPU encoding/decoding for reliable data communication
- ※ Well-designed joystick with a service life of up to 1 million times
- ※ Real-time active control, compliant with EU standards
- ※ Up to 32 I/O outputs and 10 AO outputs
- ※ Optional: display screen, fingerprint recognition, wire control

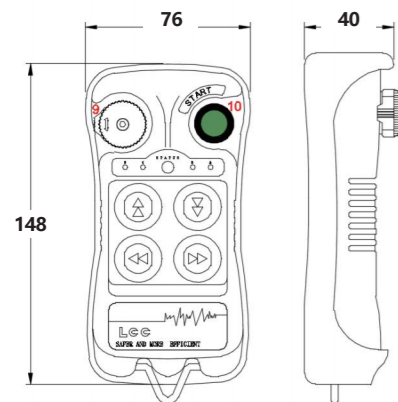
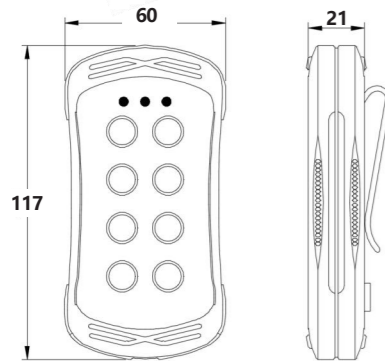


Application Scope

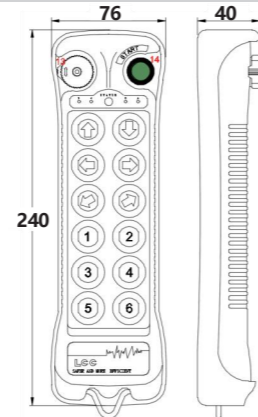
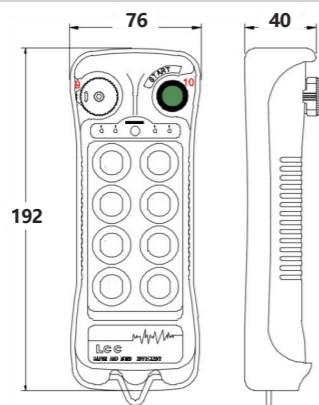
Truck-mounted cranes, aerial work platforms, crawler cranes, grinders, shotcrete machines, distributing machines, ship unloaders, agricultural tractors, track-laying machines, tower cranes, mobile crushers, pump trucks, trailer pumps, drilling rigs, AGVs, sanitation vehicles, fire trucks, electric construction vehicles, agricultural equipment, special robots, engineering vehicles, train locomotives, special drilling equipment, and other remote-controlled devices.

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Transmitter Operation	Joystick, toggle switch, Push Button
Transmitter Power Supply	7.4VDC3000mAh
Transmitter Fault Alarm	Display screen or LED indicator
Transmitter Antenna	Built-in
Receiver Power Supply	12V-30VDC
Receiver Rated Power	<10W
Receiver Fault Alarm	LED status indicator
Receiver Antenna	External suction cup antenna
Relay Contact Capacity	8A/250VAC
PWM Output	16-channel PWM, 12-channel PWM + 4 AO; customizable
Receiver Output Interface	*Wirable (with heavy-duty HAN32 plug-in)
Safety Control	Dual CPU real-time control
Safety Standard	EN ISO13849-1:2015 PL d
Export Certification	CE, FCC

(Handheld Q Series)



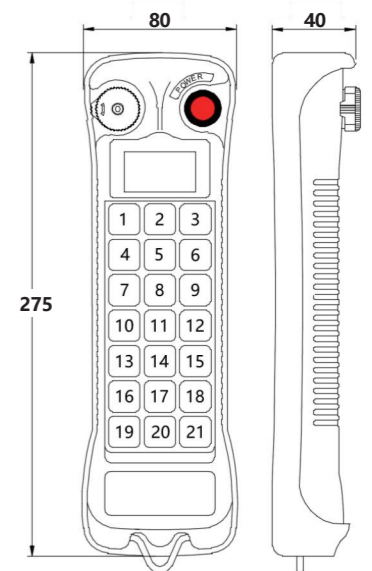
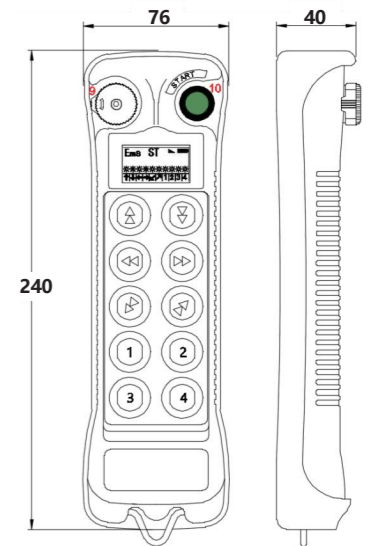
Model	A Series	Q400	Q600	Q1000
Size	60X21X117mm	76X40X148mm	76X40X192mm	76X40X240mm
Weight (without battery)	0.22kg	0.24kg	0.28kg	0.36kg
Number of Keys	2\4\6 keys (optional)	2\4 keys (optional)	6\8 keys (optional)	10\12 keys (optional)
Protection Class	IP65			
Material	Industrial PA6+30%GF			
Key Type	Self-resetting			
Power Supply	2 AAA batteries	2 AA batteries / Optional rechargeable version		
Wireless Range	≥100m; Other ranges optional			
Working Current	Standby current 5uA, Average current 20mA			
Transmit Power	≤100mW			
Frequency Range	420MHz ~ 450MHz band; Frequency bandwidth: 250Khz			
Antenna Type	Built-in			
Working Temperature Range	Temperature: -25°C ~ -70°C Humidity: 0% ~ 97%rh, Anti-condensation			
Optional Functions	Indicator light / Password power-on			



- Ergonomic and lightweight
- High safety and reliability
- Wireless remote control pairing

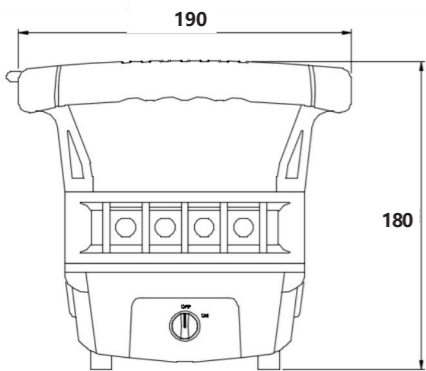
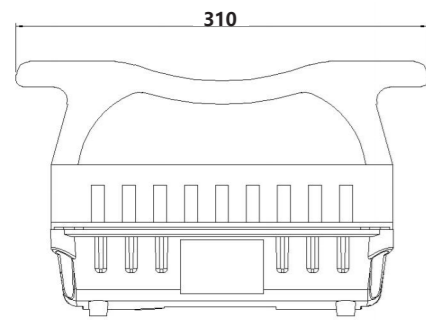


Model	XDB200	LDA600	X1010	QM2100
Size	76X40X192mm	76X40X240mm	76X40X240mm	80X40X275mm
Weight (without battery)	<0.40kg	<0.40kg	<0.40kg	<0.50kg
Number of Keys	Customizable number of keys		10keys (optional)	21 keys
Protection Class	IP65			
Material	Industrial PA6+30%GF			
Key Type	Buttons / Toggle Switches / Knobs			
Power Supply	4.2V Lithium Battery	Two AA dry batteries		4.2V Lithium Battery Pack
Wireless Range	≥100m; Other ranges optional			
Working Current	Standby current 5uA, Average current 20mA			
Transmit Power	≤100mW			
Frequency Range	420MHz ~ 450MHz band; Frequency bandwidth: 150Khz			
Antenna Type	Built-in			
Working Temperature Range	Temperature: -25°C ~ -70°C Humidity: 0% ~ 97%rh, Anti-condensation			
Optional Functions	Indicator light / Password power-on / Data Feedback			



- ※ Durable, waterproof, dustproof, and ergonomic
- ※ Narrow wireless frequency design (no adjacent frequency interference); switching power supply system (resistant to instantaneous line voltage drop); programmable output settings
- ※ Replaceable channels; built-in high-grade EU-standard keys (up to 10 million presses)
- ※ Multiple safety protections (fault self-diagnosis, automatic frequency locking and tracking)

(Strap Series)



Model	L300 Series	Q5000 Series
Size	310 X 190 X 180mm	240 X 140 X 180mm
Weight (without battery)	2.13kg	1.38kg
Material	Engineering Plastic	
Protection Class	IP65	
Power Supply	4.2V/8.4V/2200mAh	
Wireless Range	≥100; Other ranges optional	
Working Current	≤50mA	
Transmit Power	≤10mW	
Frequency Range	433MHz band-420 ~ 450, bandwidth 125k	
Antenna Type	Built-in	
Working Temperature Range	Temperature: -25°C ~ -70°C Humidity: 0% ~ 97%rh, Anti-condensation	
Optional Display	2.5/2.8"	3.5/4.3"
Optional Functions	Fingerprint Power-on, Data Feedback Display	Fingerprint Power-on, Data Feedback Display, Three-axis Sensor Video Feedback

※ Super safety design (over 4.3 billion unique security codes; fault self-diagnosis)

※ Dual CPU encoding/decoding (reliable data communication)

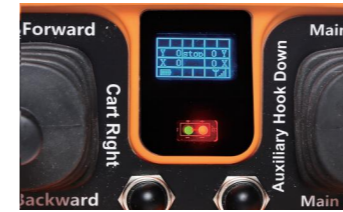
※ Well-designed joystick with a service life of up to 1 million times

※ Real-time active control (compliant with EU standards)

※ Up to 60 I/O inputs and 10 AO outputs

※ Optional: display screen, fingerprint recognition, wire control

(Optional Display Screen)



1.3-inch



1.54-inch



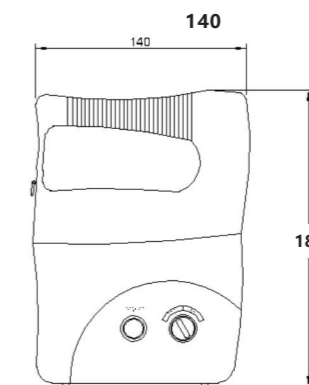
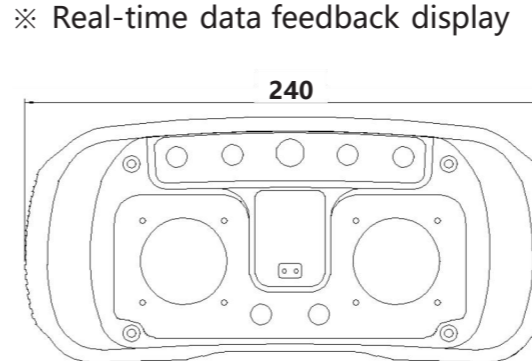
3.5-inch

Size	1.3"	1.54"	3.5"
Resolution	128 x 64	128 x 64	320 x 480
Brightness	500nit	180nit	600nit
Communication Method	SPI	SPI	
Operating Temperature	-20 ~ +70°C		
Applicable Series	Q5000 Series	L300 Series	L300 Series

※ High-brightness international standard display (clear visibility in strong light)

※ High protection and high resolution (suitable for various working conditions)

※ Real-time data feedback display



Applicable engineering vehicles include:



(10-inch Image Transmission Series)



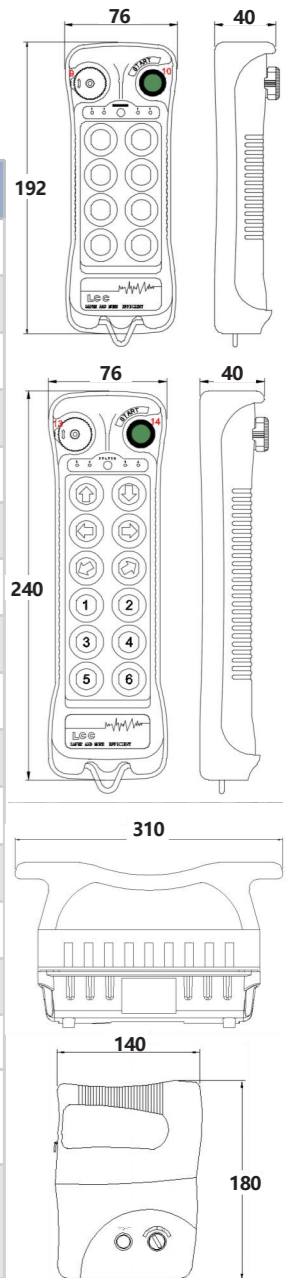
- ※ 10-inch high-definition display (2-megapixel video quality)
- ※ 4-channel 30x optical zoom cameras
- ※ Real-time display of equipment operation data on the remote control
- ※ Wireless transmission distance: 100m/500m/1000m
- ※ Overall video delay: <200ms
- ※ Operating temperature: -20°C~+70°C



(Explosion-proof Series)



Model	BQ600 Series	BQ1200 Series	BQ1800 Series	BL300 Series
Size	190X72X40mm	190X72X40mm	320X72X40mm	310X190X180mm
Weight (without battery)	0.28kg	0.36kg	0.50kg	1.94kg
Material	Fire-resistant Conductive Engineering Plastic			
Protection Class	IP66			
Power Supply	2 AA batteries		8.4V Lithium Battery/ 2200mAh	
Wireless Range	≥100m (Other ranges optional)			
Working Current	≤20mA	≤50mA		
Transmit Power	≤100mW			
Frequency Range	420MHz ~ 450MHz band; Frequency bandwidth: 125Khz			
Antenna Type	Built-in			
Transmitter Operation Type	Button Type	Joystick, Toggle Switch, Push-pull Button Switch Combination Type		
Working Temperature Range	Temperature: -25°C ~ -70°C Humidity: 0% ~ 97%rh, Anti-condensation			
Explosion-proof Mark (EX)	Ex ia I Ma II CT4 Cb			
Explosion-proof Type	Intrinsically Safe Type			
Safety Mark Number (MA)	MA220020349320			
Optional Functions	Fingerprint Recognition / Password Power-on			
Implementation Standards	GB/T3836.1-2021 "Explosive Atmospheres - Part 1: Equipment - General Requirements", GB/T3836.4-2021 "Explosive Atmospheres - Part 4: Equipment Protected by Intrinsic Safety "i" "			



(Truck-mounted Crane Series)

Core Technology: Exclusive invention patent: Stepping motor clutch Hall feedback technology.



System Features:

- ① Wireless control complies with EU standards (real-time communication, real-time monitoring; automatic emergency stop mode when communication is interrupted)
- ② Uninterrupted communication in any environment: wireless remote control (100m distance; optional distances)
- ③ Long-life components (maximum reliability)
- ④ Comfortable operation (adjustable parameters, micro-motion function)
- ⑤ Precise positioning, full safety protection, full-proportion efficient operation (high linearity, smooth movement)



BT400






BT500



BT600

Model	BT400	BT500	BT600
Emergency Stop	*	*	*
Slewing	*	*	*
Luffing	*	*	*
Telescoping	*	*	*
Main Hook Lifting/Lowering	*	*	*
Auxiliary Hook Lifting/Lowering		*	*
Main Hook Lifting/Lowering		*	*
Remote Start-Stop	*	*	*
Lighting	*	*	*
High/Low Speed	*	*	*
Horn	*	*	*
Remote Throttle	*	*	*
*Single Extension of Second Boom	Optional	Optional	Optional
*Slewing Switching	Optional	Optional	Optional
*Radiator Switch	Optional	Optional	Optional
*Torque Display	Optional	Optional	Optional

Batteries				
Real exterior photo				
Model	Li2200	Li4400	Li2200S	Li4400S
Type	Polymer Lithium Battery	Polymer Lithium Battery	Low-temperature Polymer Lithium Battery	Low-temperature Polymer Lithium Battery
Capacity	2200mAh	4400mAh	2200mAh	4400mAh
Voltage	7.4V DC	3.7V DC	7.4V DC	3.7V DC
Maximum Charging Time	2hours	4hours	2hours	4hours
Applicable Transmitters	Q5000Series,L300Series	Q5000Series,L300Series	Q5000Series,L300Series	Q5000Series,L300Series
Applicable Chargers	L0L01S	L0L02A	L0L01S	L0L02A
Weight	100g	100g	100g	100g
Charging Temperature	0°C ~ +45°C			
Operating Temperature	-20°C ~ +60°C		-40°C ~ +60°C	











Precautions

- ※ Do not subject to strong impact
- ※ Do not heat or place near open flames
- ※ Use a dedicated adapter for charging










Chargers			
Real exterior photo			
Model	L0L01S	L0L02A	L0L03A
Applicable Battery Type	Rechargeable Lithium Battery	Rechargeable Lithium Battery	Rechargeable Lithium Battery
Output Current	1.5A	1A	1A
Output Voltage	8.4V DC	4.2V DC	8.4V DC
Input Interface	DC	DC	DC
Applicable Battery Models	Li2200, Li2200S	Li4400, Li4400S	Li4400, Li4400S
Size (with plug)	86x47x67mm	86x47x56mm	215x63x42mm
Weight	76.3g	68.7g	320g

Antennas			
Real exterior photo			
Model	ATS-69	AF2	AS1
Name	Fixed Long-rod Antenna	Large Suction Cup Foldable Antenna	Large Suction Cup Antenna
Interface Type	BNC	BNC	BNC
Cable Length (Optional)	200mm, 300mm	200mm, 300mm	200mm, 300mm
Fixing Method	Interface Fixing	Interface Connection + Suction Cup Fixing	Interface Connection + Low-position Suction Cup Fixing
Size	150x30mm	246x60mm	246x60mm
Weight (with cable)	39g	167g	167g

LCC provides customized development of various industrial remote controls according to customer requirements ;Typical application cases involve .

Coalmining machines 	Pump trucks 
Loaders 	Large cranes 
Crane 	AGVS 
Mowers 	High-pressure cleaners 
Truck-mounted crane 	Driving 

LCC provides customized development of various industrial remote controls according to customer requirements ;Typical application cases involve .

Firefighting equipment 	Photovoltaic cleaning machines 
Crawler cranes 	Large crane 
Bulldozers 	Excavators 
Fire trucks 	Pile drivers 
L300 	Ten-Inch Map Transmission 