JCB35K3 Control box

JCB35K3 is an advanced control box for patient lift. It is a part of the battery-driven modular system that consists of a control box and a lithium-ion battery.

JCB35K3 is highlighted with below functions and features:
` Compact and elegant design, with max. 4 channels for flexibility;
` Lithium-ion battery driven system with high performance;
` Environmental friendly with 0W standby power consumption;
` Data enabled to plan service improve and maintenance period;
` Easier customization with extended protocols.
` Easy to read: with 2.0-inchTFT colour display.



General Features

Power:	25,2V/3.25Ah or 25.9V/5.2Ah; Lithium-Ion battery
Output:	20~29.4V/0~13A
Actuator Ports:	Max. 3 channels, 6 Pin Mini-Fit elbow connector
Hand Control Port:	1 channel, 10 Pin RJ connector
Standby Power Consumption:	≤0.1W (0W after 30 minutes without use)
Colour:	Blue / White
Control Concept:	Relay. The life-time exceeds 10000 cycles.(signal switch)
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. off
Weight:	2.7kg
Protection Class:	Max.IPX6
Display Mode:	With 2.0 inch TFT colour display
Battery Status Display:	Simultaneously displayed on the hand control and on the control box screen
Low Voltage Alarm:	Buzzer alarm and display warning
Emergency Stop:	Yes
Safety Protection:	Single-channel over-current protection
Flame Retardant Grade:	UL94-V0
Pull-out Protection:	Yes
Approvals:	UN38.3 BY Air Certification for Safe Transport of Chemical Goods BY Sea Certification for Safe Transport of Chemical Goods BY Road Certification for Safe Transport of Chemical Goods IEC 60601-1:2005+A1:2012+A2:2020 EN 60601-1:2006+A1:2013+A12:2014+A2:2021+A13:2024

Special Function

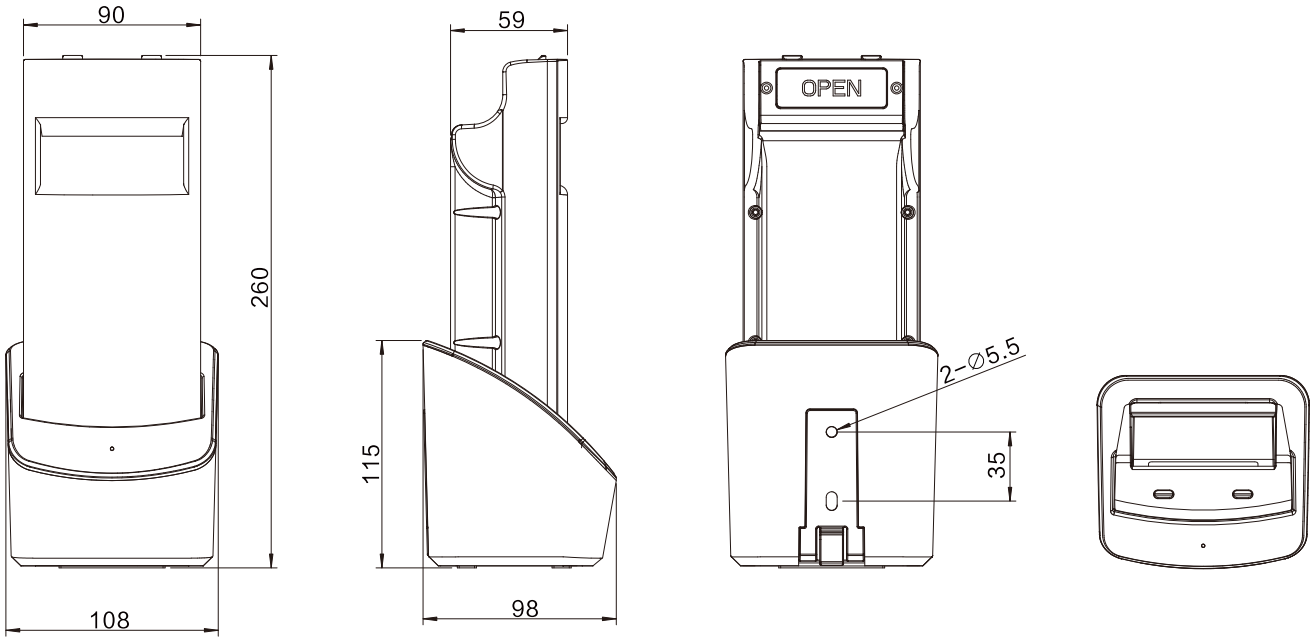
- Two ways of charging are available: internal charging of SMPS and external charger (charging time: approx. 3.5 hours for 3.25Ah, approx.5.5 hours for 5.2Ah).
- Low battery reminder: The indicator light flashing + the control box buzzer alarming + the display warning icon.
- Data enabled: you are ready to check the data, such as the battery status, the dynamic icon of the actuators, and the number of runs and overloads of the 1st channel, all of these can be used to plan service improve logistical deployment.
- Future maintenance: the period of regular maintenance of the system can be set as a plan. And a reminder will be issued after the expiration. The cycle number of actuator during each maintenance period can be recorded and saved for easy viewing.
- Easy customization: the over-current protection value of the 1st channel can be set following the operating instructions according to the load of different patient lift structures.

Usage

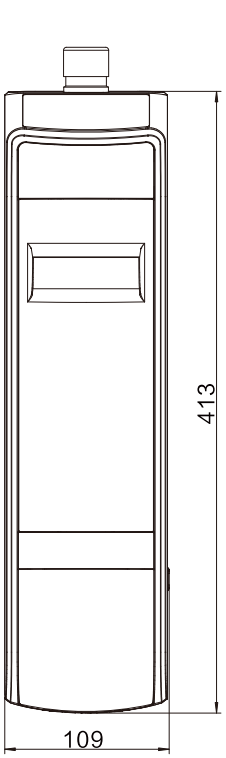
Operating Temperature:	+5 °C to +40°C
Storage Temperature:	-10°C to +50°C
Relative Humidity:	20% to 80%, non-condensing
Atmospheric Pressure:	700 to 1060 hPa
Altitude:	Max. 3000m

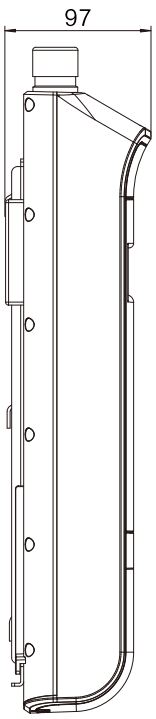
Dimensions

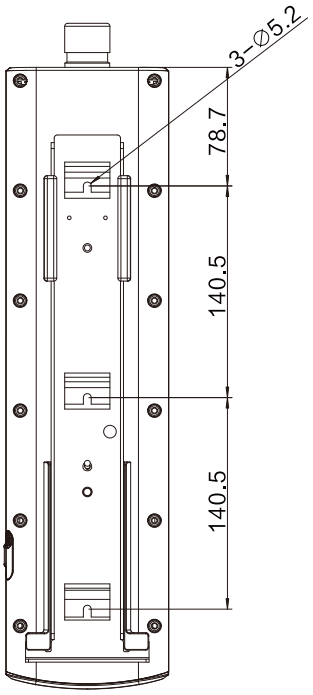
External Charger

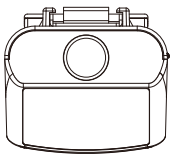


Control box







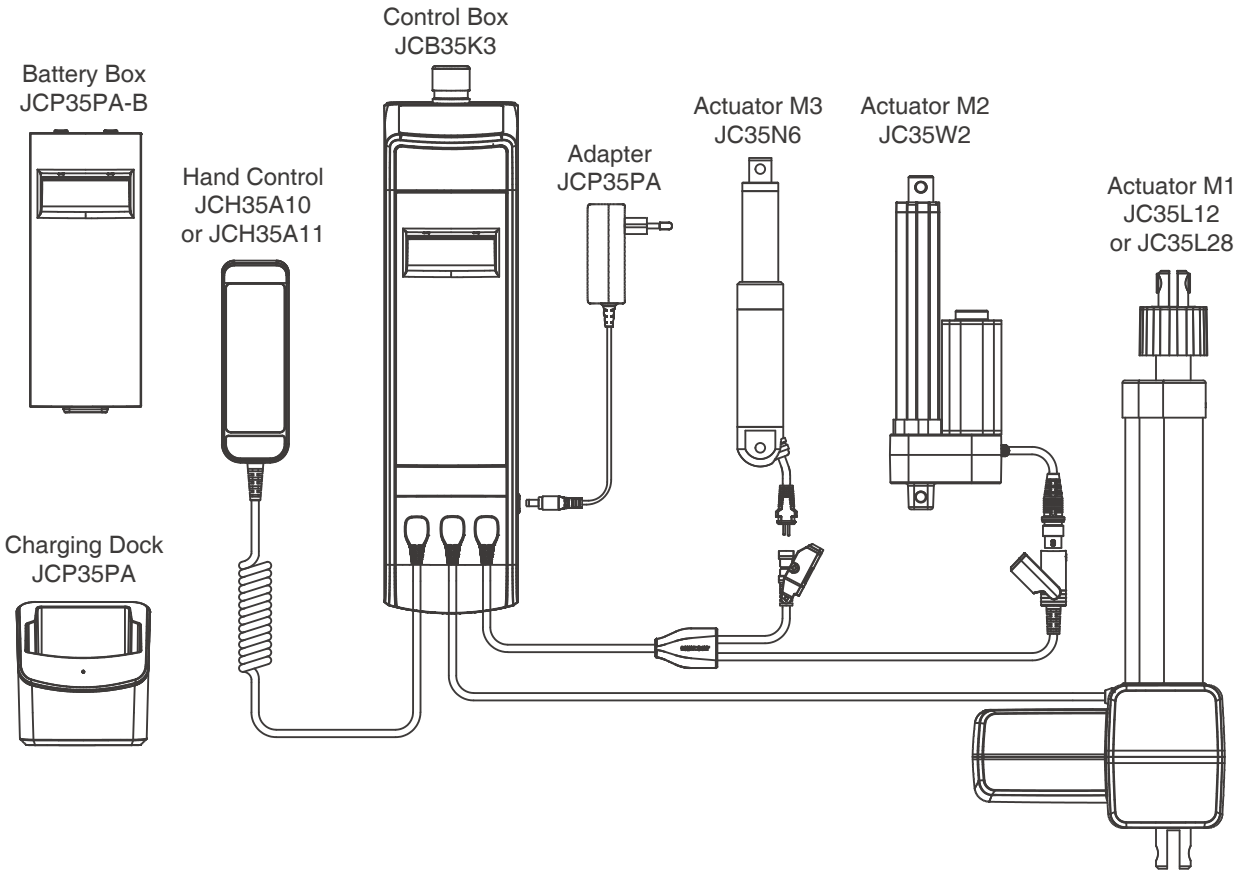


Ordering Key

Take **JCB35K3M35G/B1K00123D2500** as an example

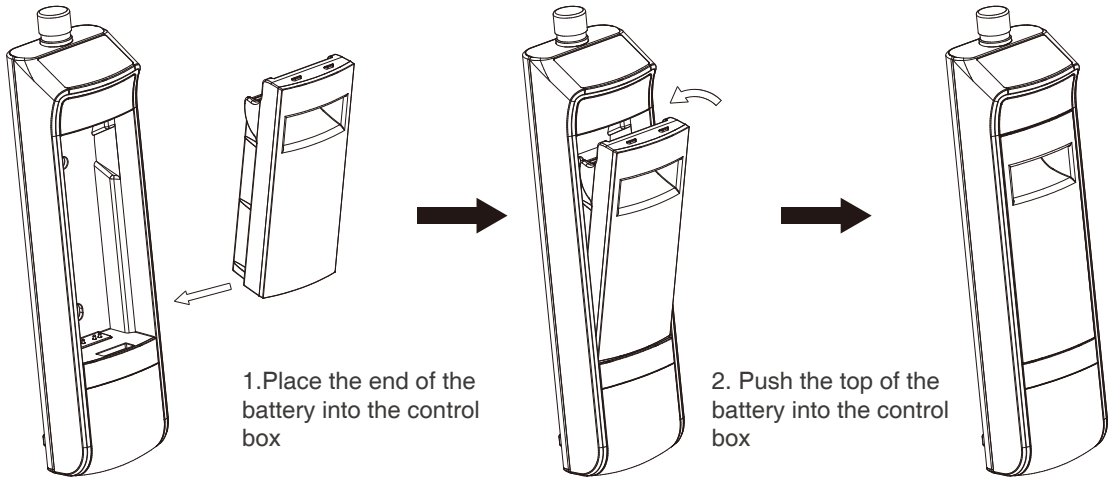
Model	**JCB35K3**	
Extension features	**X**	A = With Battery / M = With microchip / Y = Remote control
Actuator channel	**X**	3 = 3 Channels
Input voltage	**X**	1 = 110VAC 2 = 220VAC or 230VAC or 240VAC 3 = 110VAC-240VAC 4 = 10-20VDC (including 20) 5 = 20-30VDC (including 30) 6 = 30-42VDC (including 42)
Colour	**X**	G = Gray / B1 = Blue B1
PCB code	**XX**	K0012 = Specific code
Battery capacity	**XX**	3D25 = 3.25Ah / 5D2 = 5.2Ah
Optional features	**XX**	0 = Standard

Diagram-system overview



Installation

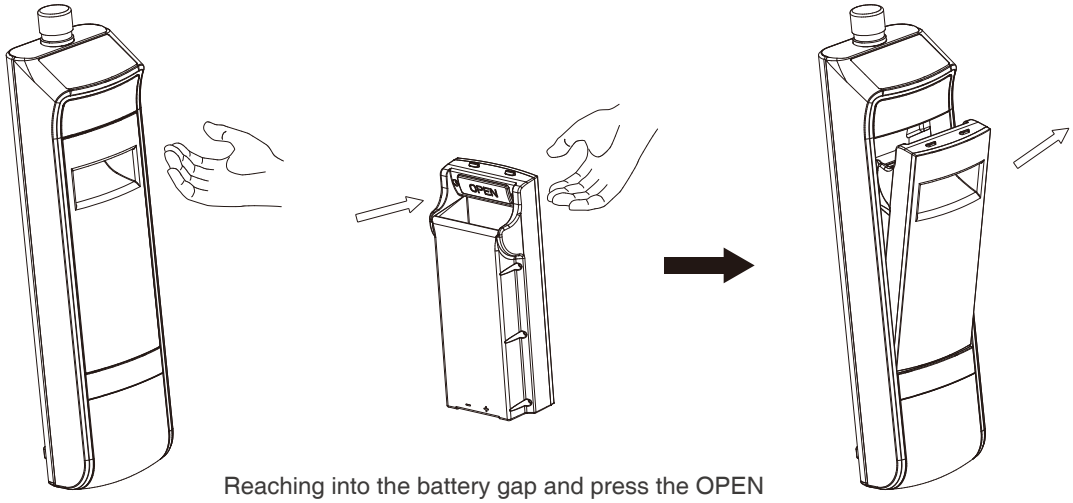
Battery installment steps



1.Place the end of the battery into the control box

2. Push the top of the battery into the control box

Battery removal steps

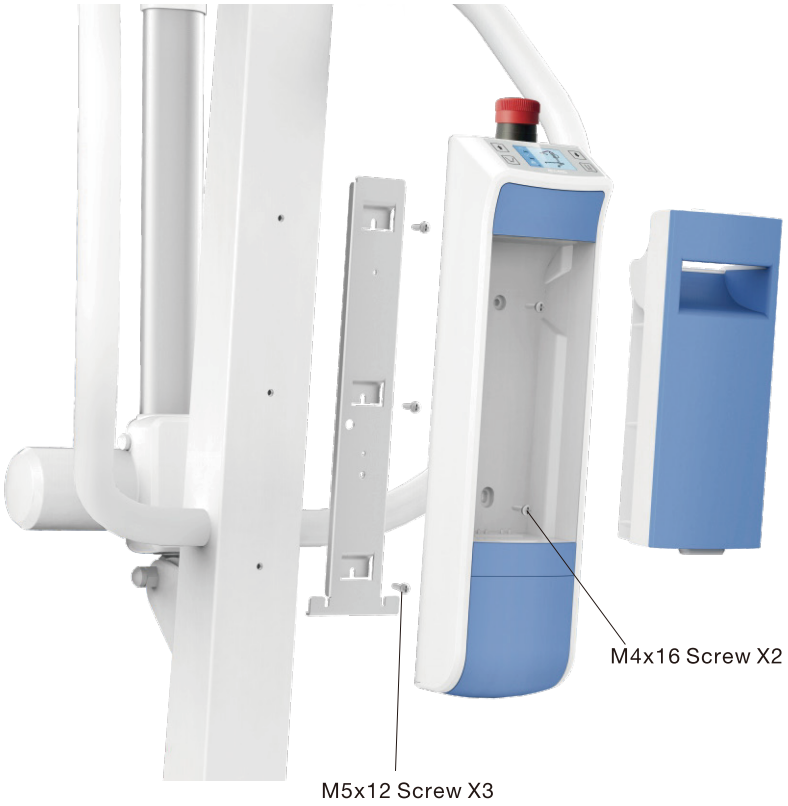


Reaching into the battery gap and press the OPEN button, then the lock button will be released and the battery can be taken out.

Installing JCB35K3 to the frame

The control box can be installed on the patient lift or any other application according to the following steps.

1)Fix the mounting plate on the patient lift frame with M5*12 screws;
2)Insert the control box onto the mounting plate, and fix it on with M4*16 screws;
3)Installing the battery.



Note:	1. It is recommended to install the control box vertically for easy viewing of the screen display. 2. Recommended torque: 0.6Nm +/-0.1

Installing external charger on the wall

The external charger can be installed on the wall or any other application according to the following steps.

1) Fix the mounting plate to the wall with ST4.9*25 screws;
2) Insert the external charger onto the mounting plate.



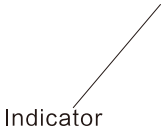
ST4.8 × 25 Screw X2

External charger on the table



External charger status

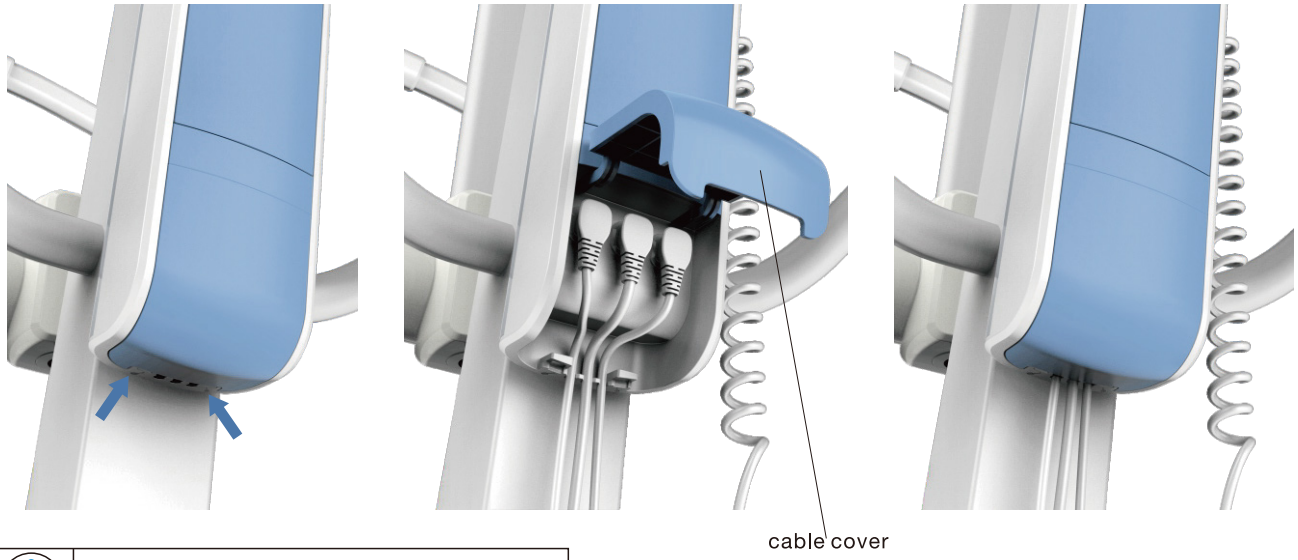
1) The external charger has an indicator light. The orange means charging and green means fully charged. Indicator will turn from orange to green when battery is fully charged.
2) During the charging process, the operation buttons are invalid, and the display shows the charging interface



Note:	The external charger is not waterproof and not washable, please use it in a dry indoor environment.

Cable management

The control box JCB35K3 has a uniquely designed cable cover. The cable cover acts as an integrated lock when it is closed.
1)Use a flat-blade screwdriver tool to open the cable cover;
2)Connector into the control box;
3)Close the cable cover until it snaps into place.



Note:	Please use the suitable tools to open the cable cover (length*width:8mm×3mm)

Emergency stop

In an emergency, press the emergency stop button to quickly cut off the power supply. The screen turns off and all actions stop.

According to the arrow on the button, turn the emergency stop button clockwise, the control box will be powered on and it can be operated normally.



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Passed EMC tests. To ensure our products pass all kinds of tests domestic or abroad.

Communication protocol development

Aiming at different applications, develop more extensive functions for control system.

Professional customization

Powerful R&D strength, fully satisfy customers' needs. Development cycle is about 10 days, seizing more market opportunities

Intelligent Control of Bluetooth

Mobile phone as the remote, applying in home care. Market pioneer, Jiecang provides better choices

Wireless Communication

Controllers adopt high-frequency wireless system. It can avoid interference mixing with signal receivers, assisting in remote control over medical equipment.

Latest Weighing System

Designed for physiotherapy beds and medical care beds. Cantilever carrying weighing sensor, it is applicable to different bedsteads dispensing with any adjustment

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Notes for mounting and usage can be found in the corresponding mounting manual

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