



东莞市惠康传动科技有限公司
Dongguan Huikang Motor Mfg.Co.,Ltd

Important instructions. Retain for future use. PLEASE READ THESE INSTRUCTIONS THOROUGHLY BEFORE USING THIS PRODUCT.

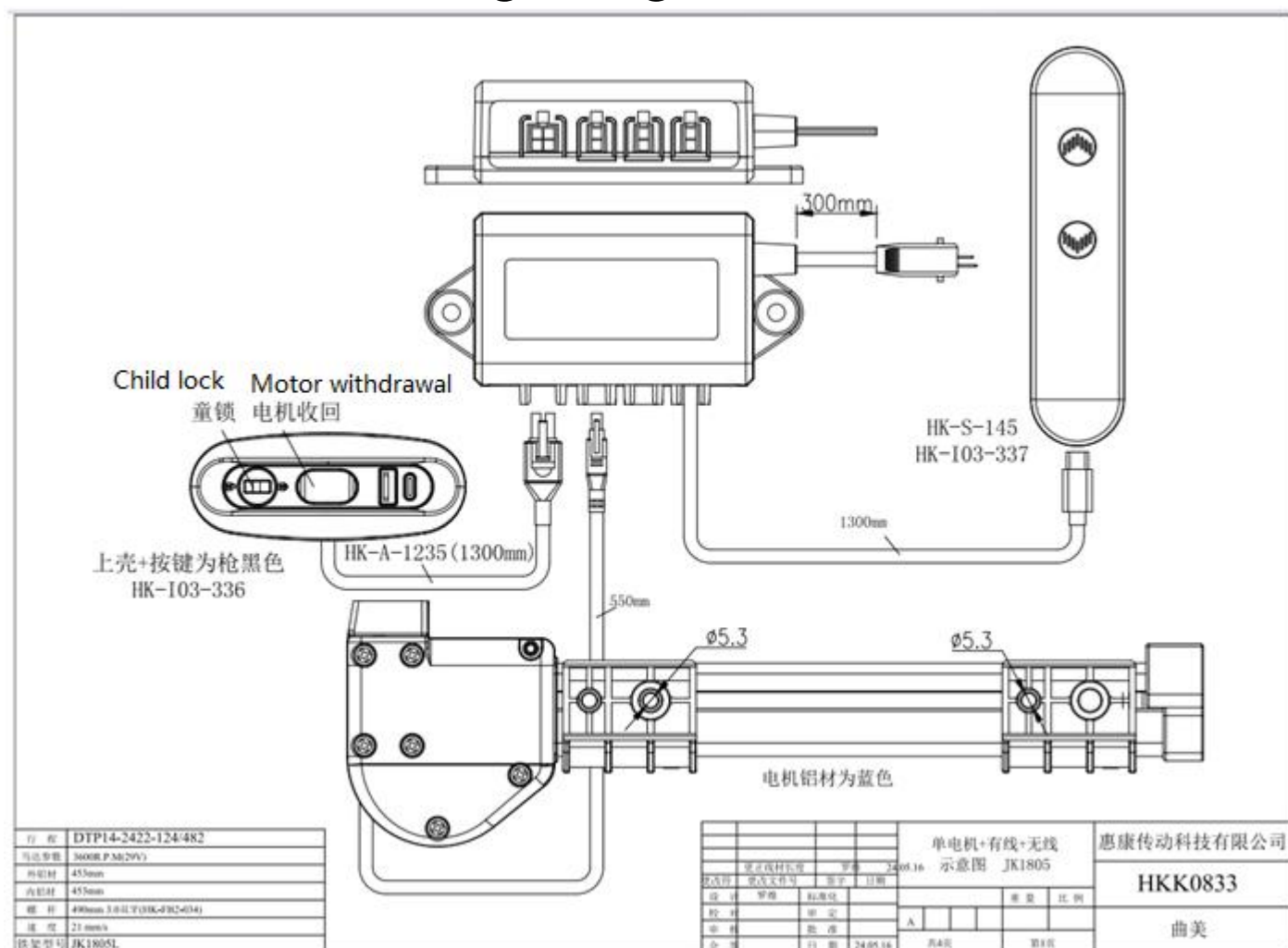
The current version of this instruction manual for future use can be found under website or contact us:

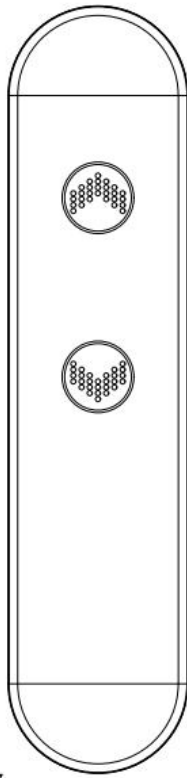
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User Guide

一、Overall wiring diagram





S-145 Wireless remote



S-146 Wired remote

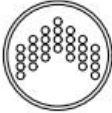
二、 Operation instruction

Preparation: Connect all parts according to the Overall wiring diagram.

1. Operation instruction of S-145:

According to “四、 **Pair wireless remote with the control box**

”, Perform the following operations by pressing the button

Button	Press Model	Function
	Long press	Button to extend the actuator: 1. Long press the button, the actuator is extended, release button to stop.
	Long press	Button to retract the actuator: 1. Long press the button, the actuator retract, release button to stop.

- The backlight lights up during press any buttons. The backlight will automatically turn off about 3 seconds after all buttons are released.

2. Operation instruction of wired remote S-146:

Button	Press model	Function
	Long press	Button to retract the actuator: 1.Long press the button to retract actuator, release button to stop.
	Long press	Button to extend the actuator: 1.Long press the button to extend the actuator, release button to stop.
	Slide	Button to unlock actuator: 1.Slide the switch to unlock icon, buttons to control actuator work
	Slide	Button to lock actuator: 1.Slide the switch to lock icon, buttons to control actuator stop working.
	TYPE-C Output: DC 5V/3A ,9V/2.22A,12V/1.67A	
	TYPE-A Output: DC 5V/3A ,9V/2A,12V/1.5A	

Attention:

1. Type-A (USB) / Type-C (fast charging) When using the power supply to supply power, the Type-A (USB) / Type-C port (fast charging port) has more heat generation, and the installation position space of the handset controller is relatively closed. For safe use, set up the following protection measures in the handset controller:

✧ When the internal temperature control protection exceeds the protection value, the USB



port will stop charging and automatically resume charging when the internal temperature drops below the protection point.

三、 Technical parameters

1. S-145 Wireless remote:

- 1) Input: DC 3.7V 800mAh rechargeable battery built-in
- 2) Rated current: 25mA
- 3) Frequency: 2.4GHz

2. S-146 Wired remote:

- 1) Input: DC 29V
- 2) Rated current: 1.8A
- 3) TYPE-A:

Output: DC :5V/3A ,9V/2A,12V/1.5A; 18W MAX

✧Fasting charging specification:

- * Supports BC1.2, Apple protocols
- * Supports Qualcomm fast charge protocols QC2.0 and QC3.0
- * Supports MTK PE+1.1 and PE+2.0
- * Supports Huawei Fast charge protocols FCP and SCP
- * Supports for Samsung Fast Charge Protocol AFC

TYPE-C:

✧ Output: DC :5V/3A , 9V/2.22A, 12V/1.67A;20W MAX

✧ Fasting charging specification:



- * Supports PD2.0/PD3.0 (PPS) output protocols
- * Supports BC1.2, Apple protocols
- * Supports Qualcomm fast charge protocols QC2.0 and QC3.0
- * Supports MTK PE+1.1 and PE+2.0
- * Supports Huawei Fast charge protocols FCP and SCP
- * Supports for Samsung Fast Charge Protocol AFC

Note: When the two charging ports are used at the same time, the maximum output of a single port is 5V/3A, the total power of the two ports is 5V/4A, and the two channels are limited separately.

3. Control box:

- 1) Input: DC 29V
- 2) Rated current: 1.8A

4. Power supply:

- 1) Input: AC100~240V 50/60Hz
- 2) Output: DC 29V
- 3) Rated current: 1.8A

5. Actuator:

- 1) Input: DC 29V
- 2) Rated current: 1.8A
- 3) Operation mode: S3 /18 2min ON 18min OFF



6. Working environment::

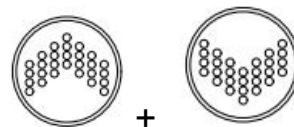
1. Ambient temperature: $-10^{\circ}\sim+60^{\circ}$
2. Relative humidity: 20%~80%
3. Class of protection: IP20
4. Operation mode: intermittent work, S3 10%•MAX: 2 min/18 min

四、 Pair wireless remote with the control box

Operation instruction:

Step 1: Power on the control box (Preparation: power on after the actuator is connected according to the overall wiring diagram).After power on the system, the control box enters the pairing mode and the time is within 60S.

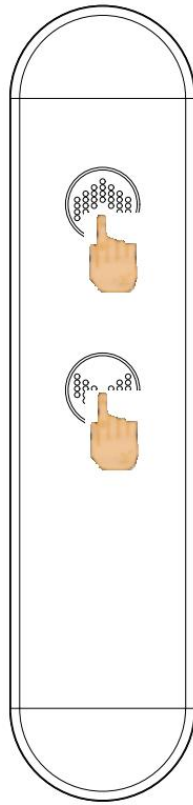
Note: If you do not enter the second step after 60 seconds, remove the power supply and wait until 60 seconds to power it on again , then follow up Step 1.



Step 2: Pick up the wireless remote and press buttons at the same time and hold for more than three seconds until you hear a "beep" from the control box, indicating that the pairing is successful. Otherwise, repeat all the steps above.

Note:

1) If the wireless remote is lost, replace the new remote control and repeat the above steps 1 and 2.



五、 Common fault and solution

Fault phenomenon	Possible causes	Solution
Product does not work	1. The motors are connected correctly or not 2. Power plug cable is good or not. 3. Use suitable power supply or not	1. Check the connection according to the specification 2. Check that the power plug is good or not, whether it is plugged in or not. 3. Output of power supply should be 29V/1.8A. (If Use the backup battery alone, please check whether its power is sufficient.)
Chair suddenly stops or fails during operation	1. The backlight of the wireless remote is blinking, means the battery is insufficient. 2. Check whether the load exceeds the standard 3. Program confusion caused by incorrect operations 4. The connection is loose	1. Please charge the wireless remote 2. Use as required 3. Power off the actuator, then connect again after 2 minutes. 4. Check the relevant connectors and reconnect them 5. Follow up the “四. Pair wireless remote with the control box”



六、注意事项

1. Use indoors as far as possible, avoid sun exposure, rain and moisture, and use in extreme temperature.
2. If the surface is wet and stagnant, disconnect the power supply and stop using it immediately.
3. Children must be used under adult supervision.
4. To avoid electric shock, do not remove the skin of the power cable.

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical furnishing, basic precautions should always be followed, including the following: Read all instructions before using (this furnishing).

DANGER – To reduce the risk of electric shock:

1. Always unplug this furnishing from the electrical outlet before cleaning or servicing.

WARNING – To reduce the risk of burns, fire, electric shock, or injury to persons: Unplug from outlet before putting on or taking off parts.

2. Close supervision is necessary when this furnishing is used by, or near children, invalids, or disabled persons.
3. Use this furnishing only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.
4. Never operate this furnishing if it has a damaged cord or plug, if it is not working



properly, if it has been dropped or damaged, or dropped into water. Return the furnishing to a service center for examination and repair.

5. Keep the cord away from heated surfaces.
6. Never operate the furnishing with the air openings blocked. Keep the air openings free of lint, hair, and the like.
7. Never drop or insert any object into any opening.
8. Do not use outdoors.
9. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
10. To disconnect, turn all controls to the off position, then remove plug from outlet.
11. For chairs and similar furnishings with movable parts such as foot supports the following statement:

"WARNING: Risk of Injury – Keep children away from extended foot support (or other similar parts)."
12. Each surface intended to support a load shall have a corresponding statement in the use instructions specifying the maximum intended load for that surface in pounds (kilograms),
13. Mount furnishings at the correct height.
14. Mount only approved work surfaces and secondary surfaces (shelves) in accordance with instructions. Failure to do so may cause instability, collapse, or fail instructions. Do not use attachments not recommended by the manufacturer.



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FCC Caution.

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.