

InMotor

Intelligent Motor with Remote control Instruction Manual

非常感谢贵客选购 InMotor 智能助推器，本产品是一款简易式辅助动力装置，能简便、快捷地安装在适合的移动运输平台上（比如商场购物车、手拉平板车、手推车、康复代步轮椅、准运动型轮椅等），在您简易的操作下，InMotor 智能助推器会向以上的运载工具及平台输出恰当的动力，令您轻松、从容地驾驭它，使您的工作和生活得心应手。本产品肯定会成为您在工作和生活上的好帮手，由于为了避免说明内容篇幅过长而不容易理解，为使您详细明白地了解 InMotor 智能助推器的主要特性和有关操作，本说明就以有安装和操作代表性的康复代步轮椅搭载 InMotor 智能助推器组合作详细的阐述，通过系统性的解述，能令您进一步明白本产品的实用性和方便性，祝您使用 InMotor 愉快。

Thank you very much for purchasing InMotor intelligent booster. This product is a simple auxiliary power device that can be easily and quickly installed on a suitable mobile transportation platform (such as shopping carts, hand-pulled flats, trolleys, rehabilitation wheelchairs), quasi-sports wheelchairs, etc.) In your simple operation, InMotor intelligent booster will output the appropriate power to the above vehicles and platforms, allowing you to easily and calmly manage it and make your work and life easy. This product will surely become a good helper for your work and life. Because it is not easy to understand in order to avoid the explanation of the content, you should understand the main features and operations of the InMotor intelligent booster in detail. A detailed description of the installation and operation of a representative rehabilitation wheelchair equipped with InMotor intelligent boosters is provided. Through systematic explanations, you can further understand the practicality and convenience of this product. I wish you a happy InMotor use. .

重要声明：

- ★敬请使用本产品前，务必仔细阅读本使用说明书。
- ★本产品是为使用者提供方便和帮助而设计制造，非标准配件。
- ★本产品非标准医疗康复配件，使用本产品可能会产生一定的风险，在明白自愿承担因而引起的所有后果的前提下自行考虑所有安全因素而慎重操作和使用。
- ★请务必遵守当地法律法规的前提下合理地使用本产品。
- ★在正常使用的情况下，产品出现故障，请联系当地经销商以得到及时的帮助和解决方案。
- ★本产品的的设计、生产商保留对该产品的最终法律解释权。
- ★由于产品随市场及广大客户需求而升级改良，部分说明可能会滞后公告，外观及性能以实物为准，敬请谅解。

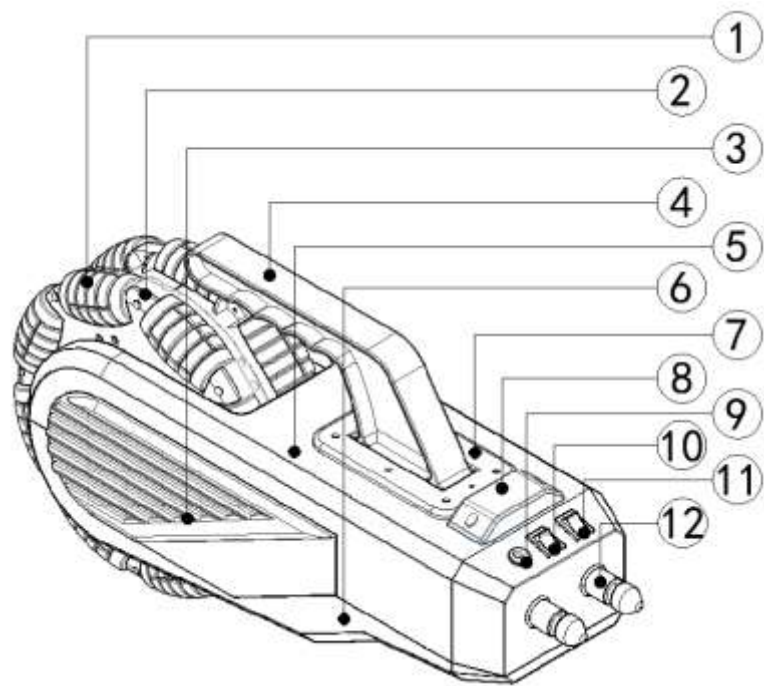
Important statement:

Please read this manual carefully before using this product.

- ★ This product is designed and manufactured for the user's convenience and help, non-standard accessories.
- ★ This product is a non-standard medical rehabilitation accessory. Using this product may cause certain risks. Under the premise of understanding all the consequences caused by voluntary commitment, all safety factors should be taken into consideration and operated with caution.
- ★ Be sure to use this product reasonably under the premise of local laws and regulations.
- ★ In case of normal use, the product malfunctions, please contact your local dealer for timely help and solutions.
- ★ The design and manufacturer of this product retains the final legal interpretation right of the product.
- ★ As the product is upgraded with the market and the needs of our customers, some of the instructions may lag behind the announcement. The appearance and performance are based on the actual product. Please understand.

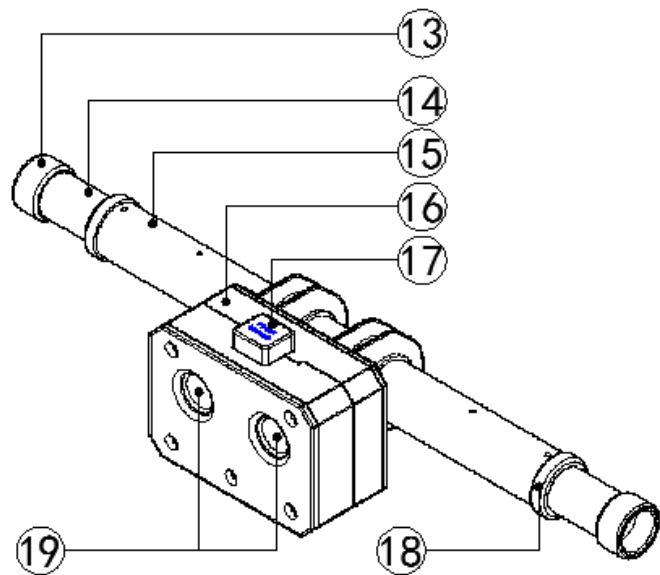
产品信息

product information



InMotor 主机体 InMotor main body

编号 Numbering	1	2	3	4	5	6	7	8	9	10	11	12
名称 name	橡胶滚轮 Rubber roller	滚轮支架 Roller bracket	装饰片 Decorative sheet	手柄 handle	机体上盖 Body cover	机体下盖 Lower body cover	手柄固定环 Handle fixing ring	电量显示器 Power monitor	充电插座 Charging socket	电源开关 Power switch	转换开关 Transfer switch	连接器 Connector

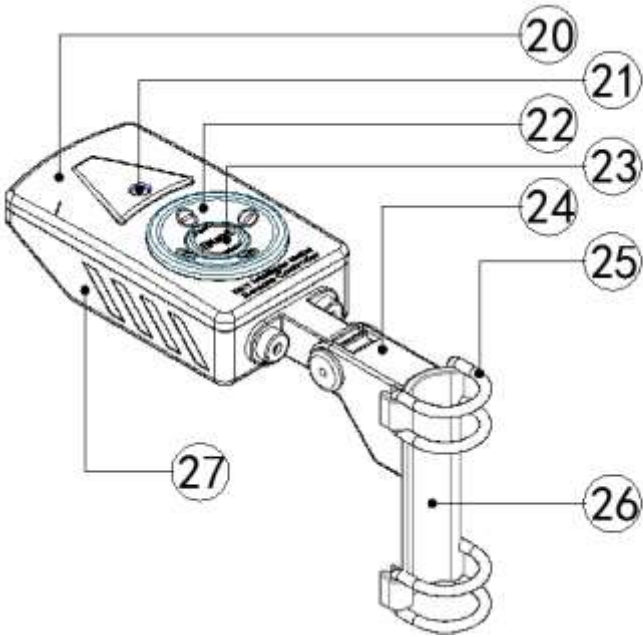


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连接扣+连接横杆

Connection buckle + connecting bar

编号 Numbering	13	14	15	16	17	18	19
名称 name	连接套 Connection sleeve	连接横杆 B Connecting bar B	连接横杆 A Connecting bar A	锁扣总成 Locking assembly	锁扣按钮 Lock button	管口套环 Pipe collar	连接孔 Connection hole



RF 遥控器+固定支架

RF remote control + fixed bracket

编号 Numb ering	20	21	22	23	24	25	26	27
名称 name	遥控器上 盖 Remote control cover	指示灯 LED	停止按钮 stop button	启动/调速按钮 Start/Speed button	摇臂支架 Rocker bracket	硅胶固定圈 Silicone fixing ring	固定靠板 Fixed back plate	遥控器下盖 Remote control cover

产品基本参数

Product basic parameters

产品型号 Product number	IM-1	IM-2
使用电压 Use voltage	DC-36V	DC-36V
电池容量 battery capacity	4.4A/158Wh	8.8A/317Wh
电机功率 Motor Power	250W	250W
工作频率 Operation frequency	434.022MHz	
续航里程（在电池完好及满电的前提下） Range of voyage (under the premise of intact and full battery)	20-25km（因路况与行驶习惯而有差异） (due to differences in road conditions and driving habits)	45-50km（因路况与行驶习惯而有差异） (due to differences in road conditions and driving habits)
工作适应温度 Working temperature	-25°C-50°C	-25°C-50°C
爬坡能力（负重 80Kg 或以下） Gradeability (weight 80Kg or less)	≤15°	≤15°
轮径 Wheel diameter	φ22.8cm	φ22.8cm
速度 speed	高速 1.7M/S 低速 0.85M/S High speed 1.7M/S Low speed 0.85M/S	高速 1.7M/S 低速 0.85M/S High speed 1.7M/S Low speed 0.85M/S
机体重量 Body weight	7.8kg	8.8kg
连接杆长度调节范围 Connecting rod length adjustment range	34.5cm-48.5cm	34.5cm-48.5cm
充电时间 Charging time	2 小时 2 hours	4.5 小时 4.5 hours
行进声响警示 Advancing alert	有 Have	有 Have
电量监测 Electricity monitoring	有 Have	有 Have
遥控手柄 Remote control handle	有 Have	有 Have
机体外壳材质 Body shell material	铝合金（压铸成形）Aluminum alloy (die casting)	铝合金（压铸成形）Aluminum alloy (die casting)
适应行进路面 Adapt to the moving pavement	混凝土、柏油、大理石、瓷砖、硬地毯 Concrete, asphalt, marble, tiles, hard rugs	混凝土、柏油、大理石、瓷砖、硬地毯 Concrete, asphalt, marble, tiles, hard rugs
主机体外形尺寸 Main body size	508mmX143mmX268mm	508mmX143mmX268mm
遥控器控制范围 Remote control range	≤7M	≤7M
零启动/非零启动转换 Zero Start/Non-zero Start Conversion	no	有 Have
一键启动/速度切换 One-button start/speed switch	有 Have	有 Have
一键停止 One-click stop	有 Have	有 Have
一键装拆 One-button assembly and disassembly	有 Have	有 Have

InMotor 安装步骤（以康复代步轮椅作搭载平台为例）

1. 打开包装后，取出连接扣和连接横杆组合（出厂时已经安装好在一起），①⑨连接孔向后，①⑦锁扣按钮向上。拧松①⑤连接横杆 A 上

的四颗定位螺丝，将在两端的⑭连接横杆 B 适当抽出且注意两端伸出的长度基本相等，让两端的⑬连接套可靠地套在轮椅车轮的固定螺丝上并刻意用⑬连接套顶紧，将⑮连接横杆 A 上的四颗定位螺丝拧紧锁定。

2. 用手握起④手柄，使⑫连接器对准⑰连接孔，按下⑰锁扣按钮，连接器插入连接孔，松开⑰锁扣按钮，用力回拉主机体以检查连接稳妥，若发现容易松脱，请重新以上安装步骤至连接稳妥为止。

3. 将 RF 遥控器+固定支架总成取出，按规定方向装入四颗“AAA” 1.5V 电池（建议使用碱性高能电池）并把电池仓盖关闭，使两条⑳硅胶固定圈绕过轮椅靠手下的金属管并回扣到固定支架的槽内，调整遥控器安装位置和摆动角度以使符合你的操作舒适感。

InMotor installation steps (taking rehabilitation wheelchair as loading platform as an example)

1. After unpacking, take out the combination of connecting buckles and connecting crossbars (already installed together at the factory), ⑰ the connecting holes are backwards, ⑰ the latch button is upwards. Loosen ⑮ the four set screws on the connecting rod A, and properly pull out the ⑭ connecting rods B at both ends and note that the lengths of both ends are substantially equal, so that the ⑬ connecting sleeves at both ends can reliably Put on the set screw of the wheelchair wheel and carefully tighten the⑬ connecting sleeve and tighten the four set screws on the ⑮ connecting rod A.

2. Hold the ④ handle with your hand, align the ⑫ connector with the ⑰ connection hole, press the ⑰ lock button, insert the connector into the connection hole, release the ⑰lock button, and use force Pull back the main body to check that the connection is secure. If it is found to be easy to loosen, please repeat the above steps until the connection is safe.

3. Take out the RF remote control + fixing bracket assembly, and put four “AAA” 1.5V batteries in the specified direction (alkaline high-energy battery is recommended) and close the battery compartment cover to make two ㉔ silicone fixing rings. Bypassing the metal tube under your wheelchair and retracting it into the groove of the fixing bracket, adjust the installation position and swing angle of the remote control so as to meet your operating comfort.

InMotor 启动操作步骤

1. 打开⑩电源开关，检查⑧电量显示器指示的当前电量，建议保持电量在 80%以上，若低于这个数值，请你在出发前将电池充电。养成使用后补充电量的习惯，使 InMotor 时刻为你准备着。

2. 将⑪转换开关切换到你所需要的零启动或非零启动状态（IM-2 专配），安全、稳妥地坐上轮椅并检查没有影响行驶的情况发生方可准备启动 InMotor。

3. 启动 InMotor 有两种方式：

A-当⑪转换开关设置是零启动状态时，点按㉓启动/调速按钮一次，有间歇鸣响警示，InMotor 马上启动，以低速 0.85M/S (约 3km/h) 的速度行进，如果想提高行进速度，再点按㉓启动/调速按钮一次，InMotor 立即以高速 1.7M/S (约 6km/h) 的速度行进，这按钮可以由低速到高速循环调节。

B-当⑪转换开关设置是非零启动状态时，点按㉓启动/调速按钮一次，有间歇鸣响警示，用手一起稍微转动一下轮椅的车轮，InMotor 马上启动，以低速 0.85M/S (约 3km/h) 的速度行进，如果想提高行进速度，再点按 ㉓启动/调速按钮一次，InMotor 立即以高速 1.7M/S (约 6km/h) 的速度行进，这按钮可以由低速到高速循环调节。

4. 在行进间若要停止前进，可点按㉔停止按钮圆圈任意位置一次，InMotor 和间歇鸣响警示立即一并停止，若由于惯性作用而未能使轮椅完全停驻，可采取使用轮椅自带的机械辅助刹车完成。

InMotor startup procedure

1. Turn on the ⑩ power switch and check the current power level indicated by the ⑧ power indicator. It is recommended to keep the power level above 80%. If it is lower than this value, please charge the battery before starting. Get into the habit of recharging after use, and make InMotor ready for you.

2. Switch the ⑪ switch to your desired zero-start or non-zero start (IM-2 specific), sit safely in the wheelchair and check that there is no impact on the situation before you are ready to start InMotor.

There are two ways to start InMotor:

A - When the ⑪ changeover switch is set to the zero start state, tap the ㉓ Start/Speed button once and an intermittent alarm sounds. InMotor activates immediately, at a low speed of 0.85M/S (approx. 3km/h). If you want to increase the speed, if you want to increase the speed, press the ㉓ Start/Speed button once. The InMotor immediately travels at a high speed of 1.7 M/S (about 6 km/h). This button can be adjusted from low speed to high speed.

B-When the ⑪ switch setting is non-zero start state, click ㉓ Start/Speed button once, there is an intermittent ringing

warning. Turn the wheel of the wheelchair slightly with your hand and InMotor will start immediately, at a low speed of 0.85 M/S (approx. 3km/h) speed travel. If you want to increase the traveling speed, click ㉓ Start/Speed button once and InMotor will immediately travel at a high speed of 1.7M/S (about 6km/h). This button can be adjusted from low speed to high speed.

4. If you want to stop advancing during the marching, you can click ㉒ stop button once at any position. InMotor and intermittent alarms will stop immediately. If the wheelchair cannot be completely parked due to inertia, you can use it. The mechanical auxiliary brake provided on the wheelchair completes.

注意事项:

- ★建议不要在下雨天和在湿滑的路面使用本产品，以免产生影响产品可靠性的不良状况。
- ★坚持使用原厂标配的充电器向 InMotor 充电，否则可能会影响内部电池组寿命。
- ★不得擅自拆解或改装 InMotor 主机体或附属任何零件，否则可能会发生安全事故或使产品报废。
- ★使用或存放时，儿童避免触及并保持一定的安全距离。
- ★视、听、触觉正常，双手、双臂功能正常，心智健全的人士方能使用本产品。
- ★每次使用前，必须检查所有装备的完好状态，发现隐患必须修复或完善后才能继续使用。

Precautions:

- ★ It is recommended not to use this product on rainy days and on slippery roads to avoid adverse conditions affecting product reliability.
- ★ Insist on charging the InMotor with the original charger. Otherwise it may affect the life of the internal battery pack.
- ★ Do not dismantle or modify the InMotor main body or any attached parts. Otherwise, safety accidents may occur or the product may be scrapped.
- ★ When using or storing, children avoid touching and maintaining a safe distance.
- ★ Normal visual, hearing, and tactile sense, normal hands and arms, and mentally competent persons can use this product.
- ★ Before each use, you must check the complete condition of all equipment and find that the hidden trouble must be repaired or perfected before continuing to use it.

FCC and CE :**FCC Statement:**

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.

Important: 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 complies with EU EMF Directive 1999/519/EC can be used in the European Community.

“Hereby, (WEYTHRON INTERNATIONAL TRADING LIMITED) declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.”

This device’s carrier frequency is 434.022MHz and use a PCB antenna.

The transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. This equipment complies with the RF radiation exposure limits set forth for an uncontrolled environment.

Note: There are no restrictions of use in EU country.

End of the user' s Manual