



**Empulse R10**

**-Push Assistance Device**

# Product Description

Empulse R10 push device is designed to support the attendant pushing the wheelchair.

Whether uphill, or for long trips, R10 can help in various situations. The newly designed folding mechanism provides easy operation as well as fast docking & undocking. The folding ability and lightweight of R10 allow a smooth transport attached or separate from the wheelchair.

In addition, R10 push device fits on almost any wheelchair (box frame, tube diameter 20-28mm).

R10 also offers two types of push assistance mode - ***Automatic Assistance Mode & Constant Speed Assistance Mode.***

## Automatic Assistance Mode

The system is automatically unlocked when the user holds the push handle, at which point there is no need to press the touch button to push the wheelchair, the system will generate a boost effect according to the current speed of the wheelchair; the faster the user walks, the bigger the boost effect, thus enabling the matching of different step rates to meet different user needs. By adjusting the gears, the booster effect can be changed to meet the needs of different loads.

## Constant Speed Assistance Mode

When pressing the button, the chair will move at the current selected speed, beneficial for the uphill movement



## KEY FEATURES

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**Easy Handling:** R10 can remain on the chair when folded.



**Quick Release of Control Unit:** the quick release function ensures an easy and safe transport without disconnecting cables.



**Easy to Mount and Dismount:** the docking system allows easy docking and the R10 can be removed completely.



**Motorised Wheel:** a powerful 250 W Brushless motor with mudguard; contains a solid, robust and long-lasting tyre.



**Modern Backpack:** the lightweight of the R10 and the stylish backpack allows easy handling, transport & easy adaptation to nearly any wheelchair.



**Lithium Ion Battery:** the 5 Ah provides a range of up to 14km. It has a low weight and is easy removable. Charging time: 2.5 -3H.

## Technical Data

|                      |  |   |  |
|----------------------|--|---|--|
| Total Weight         | 6.9 kg   | Wheel size  | 6 inch   |
| Weight of drive unit | 3.7 kg   | Weight of battery pack  | 1.2kg  |
| Motor                | 250 W, 36 V/15 A, brushless motor with gearing | Estimated range   | up to 12 km*   |
| Motor brake          | None, no rearward drive                        | Charging time   | 2.5-3 h (approx. at 2 A charging current)                    |
| Battery              | 36 V, 5 Ah Li-Ion                              | Max. slope  | 8°   |
| Max.user weight/load | 130 kg   | Warranty  | 2 year battery, 3 year motor                                 |
| Number of Gears      | 3 levels: 01, 02 and 03                        | Speed limitation for both Automatic Assistance & Constant Assistance Mode | Gear 01-1.5 km/h;<br>Gear 02 -3.0 km/h;<br>Gear 03 -4.5 km/h |

\*The testing environment is in level 3, using the Assist button, on flat ground, with a load capacity of 115KG. Depending on the wheelchair - pushing device combination values can vary e.g. surface conditions, user weight, driving capability, add-on weight, topography.



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