

FLY

USER MANUAL

USER MANUAL
Electric wheelchair
Product code: FLY

1. Security information

- Read the manual before first use.
- Do not use the wheelchair until fully assembled.
- Use of the wheelchair by people who are unable to operate it independently is not recommended.
- Maximum load capacity cannot exceed 115 kg.
- The wheelchair can only be used by one person at a time.
- It is recommended to keep your feet on the footrest and your forearms on the armrests when driving.
- Always check the battery level on the control panel before use.
- This electric wheelchair should only be used on a flat surface or at low elevations. It should not be ridden on a surface inclined at an angle of more than 6 degrees.
- Do not drive the wheelchair at maximum speed when going uphill or downhill.
- Do not use the wheelchair on soft and slippery surfaces such as mud, sand etc.
- Do not ride the wheelchair sideways on highly elevated areas.
- Do not put any additional load such as a trailer etc. on the wheelchair.
- Do not repair or modify the construction of the wheelchair by yourself. Use only original spare parts provided by the manufacturer.
- Do not stand up or sit down on the wheelchair when the control module is switched on.
- Do not use the wheelchair without anti-tip wheels.
- When the freewheel (manual) mode is on, do not get on or off the wheelchair without assistance.
- Do not lean forward to grab items laying in front, on the side or behind the wheelchair. Do not stand on the footrest. It might result in the wheelchair falling over.
- Avoid rapid changes of the direction while driving on elevations.
- Always slow down while driving downhill or making turns.
- Before use check if the wheels are correctly mounted.
- Do not make sudden moves while using the joystick.

- When storing, protect the wheelchair from rain and adverse weather conditions.
- Before turning on the wheelchair, make sure that the levers are set to electric mode.
- Avoid areas with horizontal gaps.
- If the wheelchair is not going to be used for a long period of time – remove the battery.
- Do not use the wheelchair on the road. It might result in a car accident.
- Do not store the wheelchair in places with high temperatures and humidity.

2. Product description and application

Electric wheelchair is designed for people who have problems with mobility, helping disabled patients with their everyday tasks. It can replace a standard wheelchair.

Electric wheelchair is suitable for patients with:

- disability, who have problems with unassisted movement,
- dysfunctions and reduced movement,
- heart and cardiovascular system diseases,
- weakening body due to advanced age.

Medical device incidents

Any serious incident involving a medical device must be reported to the manufacturer and to the competent authority of the European Union member state where the user or patient resides.

Icon description

Symbol	Meaning
	Safety Classification type B
	Important! Read the user manual
IP24	Protection against access to hazardous parts with finger and solid foreign bodies (12,5 mm and larger). Protection against water spray from any direction.
	Fragile
	This side up

	Protect from humidity and moisture

A. ELEMENTS OF THE WHEELCHAIR





1. Handle
2. Backrest
3. Armrest
4. Control module
5. Armrest flip-up button
6. Lithium battery
7. Control module length adjustment
8. Seat with padded cushion and security belt
9. Footrest locking clip
10. Solid, rear wheel 11”
11. Solid, front wheel 6”
12. Pocket for goods
13. Backrest folding clamp
14. Double crossbar
15. Engines and operation mode levers
16. Anti-tip wheels

B. PRODUCT CHARACTERISTICS

- Frame made of carbon fibre – solid and ultra-light material
- Foldable frame and backrest
- Solid rear 11” and front swivel 6” wheels
- Control module with LCD display
- Safe and reliable electromagnetic brakes
- Fully closed, maintenance-free battery
- Quick and easy assemble
- Brushless engines
- Anti-tip wheels
- Flip-up armrests and foldable footplates
- Security belts for waist and calves
- Pocket for small goods located at the back
- Two modes of operation: electric and manual
- Double crossbar for better stability

C. TECHNICAL PARAMETERS

1. **Product type:** for indoor and outdoor use
2. **Maximum speed:** ≤4,5 [km/h]
3. **Maximum capacity:** 115 [kg]
4. **Braking distance on horizontal surface:** ≤1 [m]
5. **Max. range:** 15 [km]
6. **Battery:** lithium, 24 [V] x 10 [Ah]
7. **Max. angle of elevation:** ≤ 6°
8. **Min. turning radius:** 1,8 [m]
9. **Wheelchair weight:** 11,95 kg
10. **Battery weight:** 1,80 kg

Note! Some parameters might vary depending on user weight, road conditions and battery usage.

- **Safety Classification:** type B
- **Electric shock protection:** class II
- **Ingress protection level for engine:** IP24
- **Engine power level:** 2x150[W]
- Wheelchair cannot be used in areas with flammable gas mixed with air, oxygen or nitrous oxide.

3. Assembly and adjustment

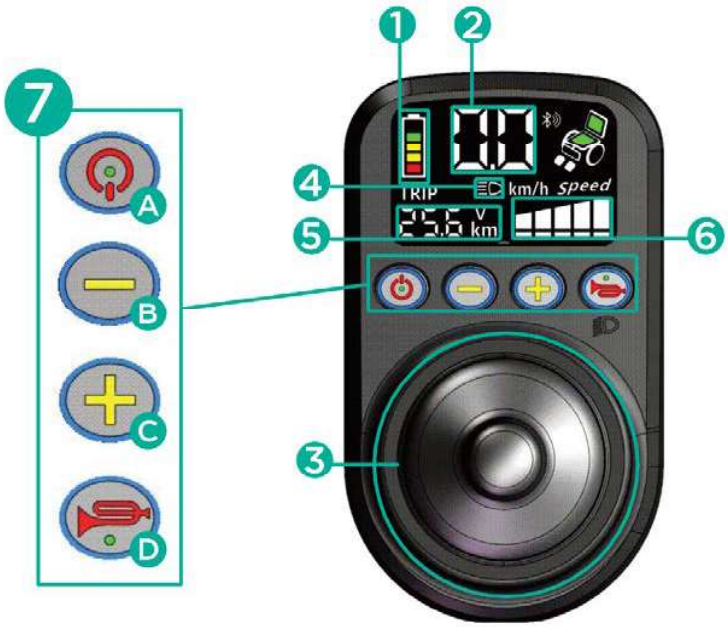
- **Unfolding:** Take the wheelchair out of the box. Unfold it by armrests and press lightly seat on its sides, till you hear a “click” sound. Mount battery on the slot on the side. Mount the control module by sliding the joystick arm into opening at the front of the armrest and securing it with mounting knob underneath. Connect the module to the power cable. Turn on power by pressing button located on battery (“**I**” for switch ON, “**O**” for switch OFF). Mount cushion and padded backrest with velcros. Install footrests on the front of the wheelchair and secure them with locking clip.
- **Folding:** Take off the wheelchair upholstery (cushion and backrest), grab two handles located on the seat and pull them. Press the sides of the wheelchair (using armrests) to ensure the wheelchair is properly folded. Press the folding clamps on the backrest to fold it.

Note! Remove the battery before folding a wheelchair.

- **Control module adjustment**: Adjustment should be done while seated. Untighten mounting knob under the armrests and adjust the position or length of the module. Tighten the screw and buckle afterwards.
- **Armrest tilting**: Press the buttons located on the outside of the wheelchair to lift the armrests. To lower the armrest, pull them down until you hear a “click” sound.
- **Removing the battery**: To remove the battery, press two buttons located on right and left side of the battery.

4. Operation

A. CONTROL MODULE FUNCTIONS

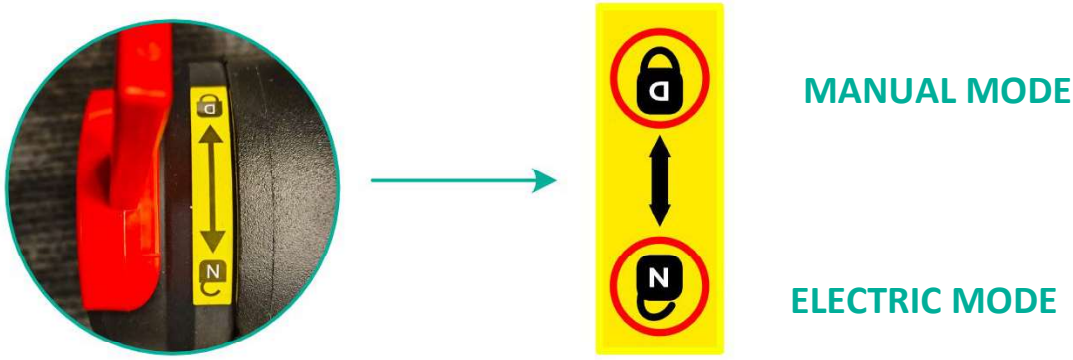


1. Battery level
2. Current speed display
3. Joystick
4. Flashlight on/off
5. Drive distance
6. Speed levels
7. Operation buttons
   - A. Power on/off
   - B. Speed level down (press)
     Warning function (hold)
   - C. Speed level up (press)
     Voice assistant on/off (hold)
   - D. Light on/off (press)
     horn (hold)

- **Joystick (3)** – used to control the speed and direction. The further the joystick is pushed away from the middle, the faster the wheelchair will move. It will lose speed automatically after the joystick is released.
- **Speed adjustment buttons (7 B/C, press) -** press +/- to increase or decrease the speed.
- **Horn button (7 D, hold)** – hold button to use the horn.
- **Voice assistant off/on (7 C, hold) –** hold button for more than 5 seconds to turn on/off the voice assistant.
- **Warning function (7 B, hold)** – hold button to activate warning function. To turn it off, press any other button.

B. MANUAL AND ELECTRIC MODE SWITCHING

To use the wheelchair in electric mode, move down the left and right engine levers located at the back. To use it in manual mode, move the levers up.



C. CHARGER

- Set includes a charger dedicated to the battery.
- Battery charging time is around 6-8 hours.
- **Battery must be always turned ON during charging.**
- **Important:** if charging battery through joystick, make sure that joystick is turned off.
- **Battery charge:** to ensure that battery is charging, check the LED light on the charger. If it's red – it means that battery is charging (battery must be turned on), if it's green – battery is either fully charged or battery is turned off. Battery must be always turned on while charging.
- Plug the charger into the charging port located in the control module (remove flashlight module before charging) or on the battery.
- Connect the charger to power supply.
- Check the connection.
- To avoid the risk of fire, do not modify or disconnect the charging circuit while charging the battery.

D. DIRECTIONS FOR USE

- Select the desired driving mode.

Note! Do not switch ride mode while driving on elevation.

- Tilt the footrest and sit comfortably on the seat. Lower the footrest back to horizontal position.

Note! Do not use the footrest as a support when sitting down or standing up from the wheelchair. This may cause the wheelchair to tilt and fall.

- Sit on the wheelchair and turn the control panel on. The LCD panel will light up. Joystick should be in neutral position.
- Take caution when using for the first time. Control the speed and direction carefully. The electromagnetic brake will get released only after pushing the joystick (electric mode). To speed up, push the joystick further away from its neutral position. To slow down – do the opposite.
- To stop the wheelchair, release the joystick. Pressing the power button will also stop the wheelchair.
- Using dedicated buttons on the control panel, adjust the wheelchair's speed according to user's physical state and road conditions.
- Wheelchair should only be used on flat surfaces. Driving on muddy or uneven surfaces can cause control system damage.

5. Technical data

Product code	**FLY**
Overall height	87 cm
Overall width	59 cm
Overall length	89 cm
Seat height from the ground	51 cm
Seat dimension	39 x 41 cm
Seat cushion dimensions	43 x 43 cm
Battery weight	1,80 kg
Maximum capacity	115 kg
Wheelchair weight	11,95 kg

Wheels	front: solid, swivel 6’’ rear: solid, 11’’
Folded size	72 x 27 x 69 cm

6. Cleaning and maintenance

- It is recommended to regularly inspect the construction and its elements (wheels, frames, cables, control module, brakes etc.).
- Any used or damaged wheelchair parts need to be replaced (in such case, please contact the Seller).

7. Battery maintenance and cleaning:

1) Regularly check the battery level displayed. If the level is very low, charge it immediately to avoid a voltage drop (which may affect battery life).
2) If wheelchair won’t be used for longer period of time, charge battery at least once a month.
3) Battery has a certain lifespan. Exchange your battery if it wears out.
4) Battery should be kept clean and away from kids. Avoid causing any shock or damage to the battery.
5) Charge it regularly to expand its lifespan.
6) Used batteries should be utilized according to local environmental regulations.

8. Storage and transport conditions

A. TRANSPORTATION

Take caution during transportation. Do not throw, turn over or put pressure on the product and its packaging.

- For wheelchair folding, check ,,Assembly and adjustment”.

B. STORAGE

Wheelchair should be kept in dry and well-ventilated space. **Avoid:** high temperature and its rapid changes, acids, alkalis and corrosive chemicals.

C. STORING CONDITIONS

Temperature: -25[°C] ~+70[°C]
Humidity: ≤90%
Air pressure: 86 ~ 106 kPA

9. Troubleshooting

In the event of a malfunction, the control module will indicate it with voice notification, sound and warning appearing on the screen:

ISSUE INDICATOR	CAUSE	POSSIBLE SOLUTION
Module doesn't turn on after pressing power button	A. Battery: isn't connected to power cable / isn't charged / power button is off / is damaged. B. The power button is damaged / control module is damaged.	A. Check if battery: is charged / power button is on / power cable is correctly mounted / isn't damaged. B. Contact the seller to replace damaged parts.
After turning on, the red warning appears on screen, with ring alarm and voice notification. 	The battery level is low.	Charge the battery for minimum 30 minutes before turning it on.
After turning on, the red warning appears on screen, with ring alarm and voice notification: left brake fault. 	Left brake is on manual mode / is damaged.	A. Switch left brake to electric mode. B. Check if engines or power cords are damaged. If yes – contact seller. C. Pull off left brake connecting cable and connect to right brake connector. Do the same for right brake connector. If problem still appears then its connected to controller. Contact seller for more information.
After turning on, the red warning appears on screen, with ring alarm and voice notification: right brake fault. 	Right brake is on manual mode / is damaged.	A. Switch right brake to electric mode. B. Check if engines or power cords are damaged. If yes – contact seller. C. Pull off right brake connecting cable and connect to right brake connector. Do the same for right brake connector. If problem still appears then its connected to controller.

		Contact seller for more information.
After turning on, the red warning appears on screen, with ring alarm and voice notification.  **EA/E9**	Right/Left-side engine cable connector felt off or is damaged.	A. Check if the right/left connector cable is lose. B. If the error still occurs despite of both cables being properly mounted, change the right side cable connection with left side. If the sound notification still appears 9/10 times, its problem with control panel. Turn on the controller. If the notification still appears, the source of problem is in left (10 times – EA)/right (9 times – E9) engine. Contact seller for more information.
After turning on, the red warning appears on screen, with ring alarm and voice notification.  **E6**	Problem with signal transmission between control module and control box.	Contact seller to exchange control module and controller box.
After turning on, the red warning appears on screen, with ring alarm and voice notification.  **E8**	Control module issue	Contact seller to exchange control module (or both control module and controller box in case of more sever issue).

10. Warranty information

- All products distributed by our company are covered by a warranty, the terms of which are described in the warranty card available on our website. Please contact the retailer from whom you purchased the product. Please, keep in mind that for warranty purposes, the proof of purchase (receipt or invoice) should be retained. As user-friendly company, we provide only tested products, in terms of material, quality and functionality. If you have any other question regarding service procedures, contact us.
- **<u>Warranty does not covers:</u>**
  - **wearable parts:** upholstery, tire, armrests, battery
  - **damages resulted from:** self-repairs, changes in product construction, drop, transport, inappropriate usage, noncompliance to the instruction, natural disasters (fire, earth shake, floods)
- Product code is located on wheelchair frame label.



Zhejiang Feilechi Medical Health Equipment Co., Ltd.
Building 3&4, No. 4 Xinyuan Road, Xinbi Street, Jinyun County, Lishui City, Zhejiang Province, China



SUNGO Cert Gmbh
Harffstr. 47, 40591, Düsseldorf, Germany



Timago International Group
Ossowski Sp. k.
ul. Karpacka 24/12
43-316 Bielsko-Biała, Poland
T.: +48 33 499 50 00
E.: info@timago.com

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