MEDUP V2
ACTIVE PASSIVE
TRAINER
117-906

MedUp V2

User Manual



Xlent Care
PRODUCTS INC.

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FOREWORD

Thank you for purchasing the **MedUp V2** from Atlas Medic.

This manual has been written for owners and operators of the **MedUp V2**. It contains general information on safety instructions, intended use, the working principle, operation, maintenance, troubleshooting and warranty. In order to maximize the use, efficiency and working life of your unit, please read this manual thoroughly and familiarize yourself with the controls and accessories before operating the unit.

Specifications set out in this manual were in effect at the time of publication. However, due to the continuous improvement policy in place at Atlas Medic inc., these specifications may be changed at any time, with no obligation on the part of Atlas Medic inc.

Before administering any treatment to a patient, the user of this equipment should read, understand and follow the information set out in this manual for each mode of treatment available, as well as the indications, contra-indications, warnings and precautions.

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Operator Qualifications

The **MedUp V2** is intended for use by medical specialists exclusively, and can only be used by qualified and instructed medical personnel in a clinical environment. Specialists must have the basic physical and cognitive prerequisites, such as vision, hearing and literacy. Basic function in the upper extremities is also expected.

Operator Training

MedUp V2 operators must be trained adequately on how to use this system safely and efficiently before they operate the unit. A documented, complete technical review must be performed, as many times as necessary, in order to ensure that users are able to understand instructions. The operator must be trained in the following:

Operating instructions and designated use of the instrument with practical exercises

Different modes and features of the unit

Setup of all components

Indications for use of the unit

Contra-indications and side effects of the device

Explanation of the warning notes in each operating status

Instructions on how to perform maintenance of the unit.

Further training requirements vary from country to country. The operator is responsible for ensuring that training meets the requirements of all applicable local laws and regulations. Other information about training in the operation of this system can be obtained from Atlas Medic inc.

Product Description

The **MedUp V2** is a rehabilitative training device, suitable for active and passive movement of a person's lower and upper extremities. It has four training modes (Passive training, Constant speed training, Assisted training and Active training) and a spasticity control function. The system can automatically perform transition between three differents modes: Passive training, Assisted training and Active training - according to the patient's condition during training.

Clinical purpose: Therapeutic and rehabilitation

Suitable locations: Clinics and hospitals

SAFETY INSTRUCTIONS

Symbols

1. Symbols on the medical device

Symbol	Explanation
	Manufacturer

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2. Symbols on the package

Symbol	Explanation
	This side up The package must be vertical and upright while in transit.
	Fragile, handle with care The product inside the packaging could be easily damaged if dropped or handled without care and attention.
	Keep away from rain The product package should be kept out of the rain and not be stored in damp conditions.
	Temperature limits The product package should be stored at a temperature between -20 and 55 degrees (centigrade).
	Upper limit of humidity The product package should be stored at a humidity level of less than 93%.
	Atmospheric pressure limits The product package should be stored at an atmospheric pressure between 86 and 106 kPa.

Precautionary Definitions

The precautionary instructions found in this section and throughout this manual are indicated by specific symbols. These symbols and their definitions must be understood before operating this equipment. Following are the definitions of these symbols:

CAUTION

Text with a “CAUTION” indicator will explain possible safety infractions that could potentially cause minor-to-moderate injury or damage to equipment.

WARNING

Text with a “WARNING” indicator will explain possible safety infractions that could potentially cause serious injury and equipment damage.

Refer to instruction manual/booklet

NOTE:
The word “NOTE” may be found throughout this manual. These Notes provide helpful information for the particular area or function being described.

Type B applied part

The pedal and calf support combination, the padding on the training handle, and the handlebar are considered to be a single type B applied part.

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Warnings

Please read the user manual carefully before using the **MedUp V2** and observe the following:

⚠ WARNING

- Read, understand and practice the precautionary operating instructions. Know the limitations and hazards associated with using the **MedUp V2**. Observe the precautionary and operating decals placed on the unit.
- Note position and meaning of labels on the **MedUp V2**.
- Check the integrity of the power supply before use. Do not use if the case or the wire is damaged.
- To avoid the risk of electric shock, the **MedUp V2** must only be connected to a supply main with protective grounding.
- Avoid use of the **MedUp V2** by people who have not read through the manual.
- Do not exceed 20 minutes when administering the first training.
- Do not spill any liquids or substances on the device. Penetration of liquids could damage the device.
- In case of a suspected malfunction, do not open or repair the device.
- Do not plug in or unplug the device with wet hands.
- Before you plug the **MedUp V2** into a main socket, please check to ensure that the voltage marked on the device matches that of of the power supply.
- Do not press, bend or damage the electric cable.
- Avoid connecting other devices into the same multi-socket plug (risk of overheating).
- Do not use this device concurrently with other therapeutic devices (e.g., microwave), to avoid improper operation.
- Do not place or use the device near a radio, a television, a copy machine or a fax machine.
- Do not use in the following circumstances: mixture of flammable anesthetic gas and air; mixture of flammable anesthetic gas and oxygen or nitrous oxide.
- Please unplug the device before moving it and try to avoid vibration while moving the device.
- Improper installation, operation or maintenance of the **MedUp V2** may result in a malfunction of this unit or other devices.
- No modification of this equipment is allowed.
- Please turn off the power switch and unplug the power when replacing the fuse, to avoid electric shock.
- If experiencing any pain, nausea or circulatory weakness, stop training immediately and consult a doctor.
- Please stop the device if any abnormal circumstances arise during the training process. If the device emits smoke, please press the OFF button to turn it off, disconnect the power cord and contact the distributor as soon as possible.

Cautions

⚠ CAUTION

- Use the device only for the prescribed purposes.
- Clean the device using a soft, dry cloth. To avoid any damage, do not use cleaning solvents or other chemical substances.
- While the device is in operation, watch the patient and the instrument case constantly, and always be attentive to the occurrence of abnormal conditions.
- The training parameters should be set by the doctor or under the doctor's professional guidance.
- The **MedUp V2** should be kept out of the reach of children.
- Do not use this device on infants or people who are incapable of expressing their intentions. Doing so may cause an accident or ill health.
- Do not use this device in places with high humidity, such as a bathroom or while taking a bath or shower.
- Do not use this device in places with a high-intensity magnetic field, an electromagnetic wave and impulse voltage.
- Do not use this device in the presence of corrosive gas and/or sunlight.
- Do not use this device where chemicals are present.
- Please make sure all electrical cables are properly connected and safe before use.
- Make sure there is enough space for the feet while adjusting the arm trainer height. When using the leg trainer, the legs must not collide with the arm trainer.
- Before the start of training, make sure that the supporting module of the handlebar or the arm trainer is tightened and that the user's legs or arms are properly secured.
- Ensure before each training session that the screws of all adjustable parts (handlebar, supporting module, calf support) are tightened and intact. If they get loose during operation, stop the training immediately and tighten the screws.
- Suitable clothing must always be worn. Avoid wide trousers, long towels and scarves that could get caught or tangled in the pedal crank (especially during leg training), as well as loose laces on shoes.
- Before starting leg training, the arm trainer should be swivelled back so the handlebar can be grasped.
- If the device is not used for a long time (≥2 weeks), please check to make sure the device and accessories are in good condition before use.
- Before every training, check to ensure the feet are in the correct position for pedalling and have secured them with straps.
- Only put feet into the pedals while seated. Do not put feet into the pedals while standing. Hands should not be put into the pedals.
- Neither the user nor any other person should make any mechanical alternations to the **MedUp V2** while the pedals are moving. Never try to grab hold of any moving parts.
- Please train only once the **MedUp V2** is switched on.
- Please avoid excessive vibration of the device, and operate the touch screen gently.
- The straps can be re-used – please disinfect them with 75% medical alcohol. Do not put the straps on to sterilize under high temperature or high pressure.
- The MAINS PLUG is used as insulation, to insulate from supply mains. Do not position the product so the mains plug is hard to operate.

EMC GUIDANCE

This product needs special precautions regarding EMC and should be installed and put into service according to the EMC information provided. This unit can be affected by portable and mobile RF communications equipment.

⚠ CAUTION

- Do not use a mobile phone, or any other device that emits electromagnetic fields, near the unit. This may result in improper operation of the unit.
- This unit has been thoroughly tested and inspected to ensure proper performance and operation!
- This machine should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, this machine should be observed to ensure normal operation in the configuration in which it will be used.

Guidance and manufacturer's statement – electromagnetic emissions		
The MedUp V2 is intended for use in the electromagnetic environment specified below. The customer or the device user should ensure that it is used in such an environment.		
Emission test	**Compliance**	**Electromagnetic environment – guidance**
RF emissions CISPR 11	Group 1	Since the MedUp V2 uses only RF energy for its internal function, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class A	The MedUp V2 is suitable for use in all establishments, other than places directly connected to the public low-voltage power supply network.
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	

Guidance and manufacturer's statement – electromagnetic immunity			
The MedUp V2 is intended for use in the electromagnetic environment specified below. The customer or the device user should ensure that it is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment – guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile.If the floor is covered with a synthetic material, relative humidity should be at least 30%.
Electrical fast transient/ burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/ output lines	±2kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to ground	±1 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 sec	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 seconds	Mains power quality should be that of a typical commercial or hospital environment. If the user of the MedUp V2 requires continued operation during power mains interruptions, it is recommended that the MedUp V2 be powered from an uninterruptible power supply or a battery.
Power frequency (50Hz/60Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE: U_T is the a.c. mains voltage prior to application of the test level.			

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Guidance and manufacturer's statement – electromagnetic immunity			
The MedUp V2 is intended for use in the electromagnetic environment specified below. The customer or the device user should ensure that it is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment – guidance**
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2.5 GHz	3 Vrms 3 V/m	Portable and mobile RF communications equipment should be used no closer to any part of the MedUp V2, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. **Recommended separation distance** *d=1.2 √P* *d=1.2 √P 80 MHz to 800 MHz* *d=2.3 √P 800 MHz to 2.5 GHz* Where *P* is the maximum output power rating of the transmitter in watts (W), according to the transmitter manufacturer, and *d* is the recommendedseparation distance in meters (m).
			Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,[a] should be less than the compliance level in each frequency range.[b] Interferencemay occur in the vicinity of equipment marked with the following symbol:
NOTE 1: The higher frequency range applies at 80 MHz and 800 MHz. NOTE 2: These guidelines may not apply in all situations.Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast, cannot, theoretically, be predicted with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the MedUp V2 is used exceeds the applicable RF compliance level above, the MedUp V2 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the MedUp V2. b. Over the 150 kHz to 80 MHz frequency range, field strengthsshould be less than 3 V/m.			

Recommended separation distances between portable and mobile RF communications equipment and the MedUp V2			
The MedUp V2 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the device user can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the MedUp V2 as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter (W)	**Separation distance, according to frequency of transmitter (m)**		
	150 KHz to 80 MHz *d = 1.2 √P*	**80 MHz to 800 MHz** *d = 1.2 √P*	**800 MHz to 2.5 GHz** *d = 2.3 √P*
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
For transmitters with a rated maximum output power not listed above, the recommended separation distance (d) in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W), according to the manufacturer of the transmitter. NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

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CLINICAL INSTRUCTIONS

Indications

Before a session with the Active Passive Trainer for upper and lower limbs, examination and diagnosis should be performed correctly.

Please stay current on latest developments and medical publications dealing with Active Passive Training, for details on contra-indications and side effects not known at the time of manufacture.

The Active Passive Trainer for upper and lower limbs is a rehabilitative training device, suitable for the active and passive movement of a person's lower and upper extremities.

Contra-indications

Patients with the following conditions should not use the **MedUp V2**:

1) Ruptured ligaments, knees or joints
2) Advanced stage of Osteoporosis
3) Stiff knee joints
4) Acute thrombosis
5) Pregnant women
6) Clinical vital signs are unstable - e.g., patients with severe pulmonary dysfunction
7) Tumors in the extremities
8) Fracture, unstable internal fixation
9) Mental disorder
10) Other patients deemed unsuitable for using this device by doctors
11) Severe arthrosis (knee, hip)
12) Risk of joint dislocation
13) Recently replaced hip or knee

TECHNICAL SPECIFICATIONS

Width 710mm
Length 760mm
Height 1072mm
Standard weight. 55kg
Power consumption 160VA
Fuse (Mains part) F2AL250V
Power supply . . . . . AC 100-240V, 50-60Hz

Rotating speed . . . . . 5-60rpm (1rpm increments)
Resistance level 0-24
Timer . . . . . 1min-120min (steps of 1min)
Adjustable range
  Supporting module 0-150mm
  Handlebar . . . . . 180°
  Display (max.) . . . . . 270°- 360°
Safe working load
  Training handle (total) 5kg
  Pedal (total) 10kg
  Handlebar 20kg
Operation type . . . . . Continuous
Interface . . . . . 8" touch screen

Protection system: I, Type B
Ingress Protection: IPX0

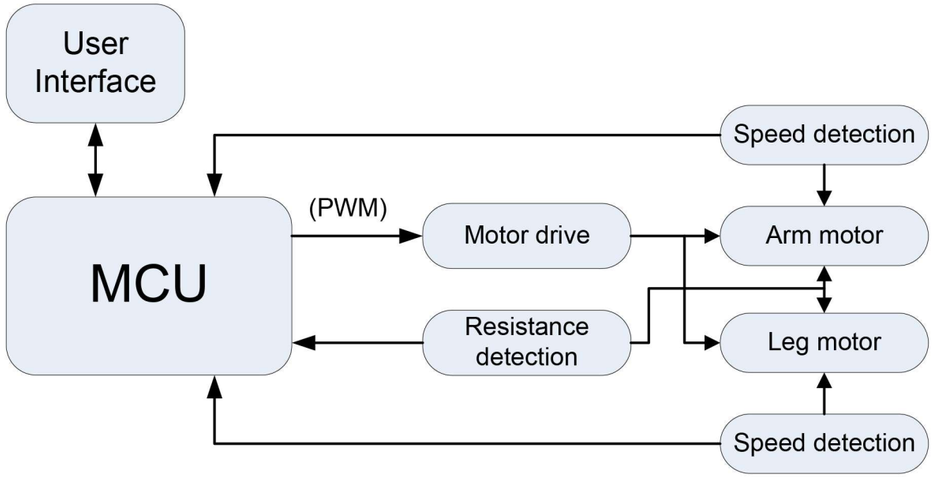
Ambiant operating conditions:

- Temperature: 5 to 40 degrees centigrade
- Relative humidity: ≤80%
- Atmospheric pressure: 86 to 106kPa

Storage and transport ambiant conditions:

- Temperature: -20 to 55 degrees centigrade
- Relative humidity: ≤93%
- Atmospheric pressure: 86 to 106kPa

WORKING PRINCIPLE



INSPECTION OF GOODS

Unpacking the Unit

The unit is generally delivered with the packaging material supplied by the manufacturer. Proceed as follows:

- Position the shipping package so the arrows are pointing upward.
- Remove the shipping packaging by lifting it.
- Remove the remaining foam material.

Inspections

Perform the following steps immediately, once you have unpacked the unit:

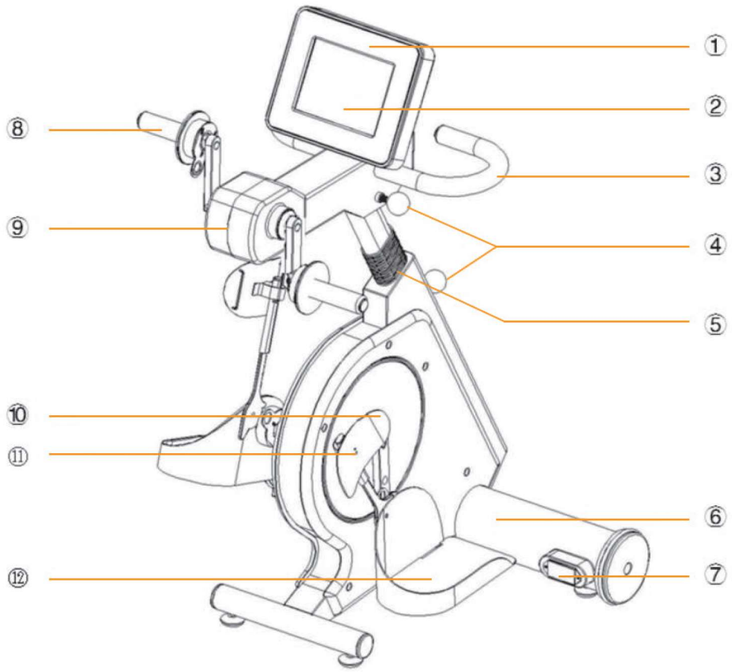
1. Verify the delivery documents and make sure they are completed correctly
2. Check the LCD touch screen of the unit when unpacking the device and make sure it is in good condition. Any scratch on the surface during use will not be covered by the warranty.
3. Check the external components and accessories for possible damage while in transit.
4. Verify that the package contains the following:

NO.	Item Name	Quantity	Unit
1	**MedUp V2** main unit	1	piece
2	Power cord	1	piece
3	Display	1	piece
4	Hand straps	1	piece
5	Certificate of quality	1	piece
6	Warranty card	1	piece
7	Installation checklist	1	piece
8	User manual	1	piece

Other parts for the **MedUp V2** are available as accessories, upon request.
Visit **www.atlasmedic.com** to obtain more information.

UNIT OVERVIEW

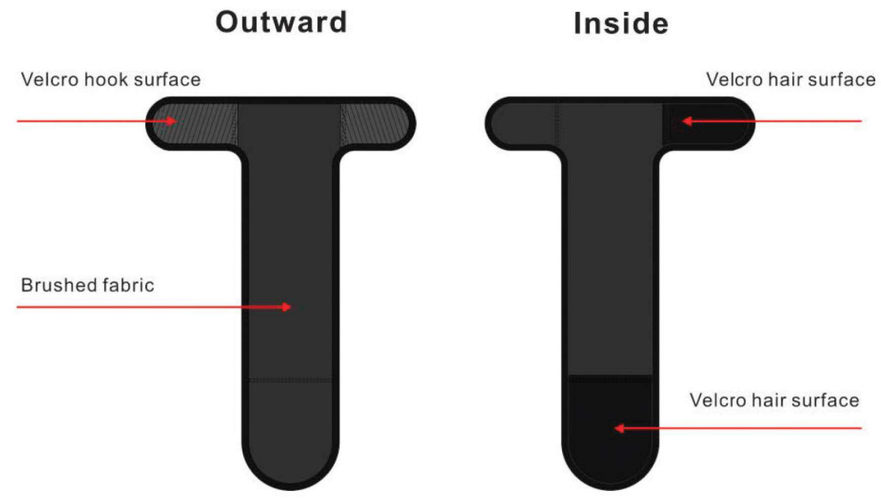
Nomenclature



A	Host	① Control system
		② LCD display
B	Main structure	③ Handlebar
		④ Large screw knobs
		⑤ Supporting module
		⑥ Pedestal
		⑦ Power switch, power socket and fuse
C	Arm trainer	⑧ Training handle
		⑨ Upper limb turntable
D	Leg trainer	⑩ Lower limb turntable
		⑪ Calf support
		⑫ Pedal

Accessories

Hand straps



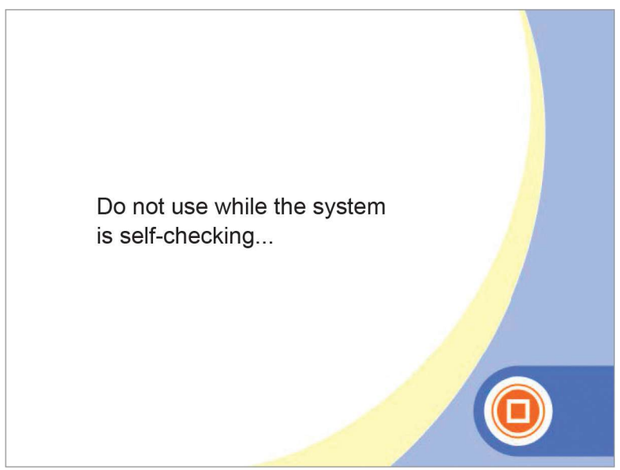
Please purchase accessories from **Atlas Medic inc.**

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INTRODUCTION TO INTERFACE

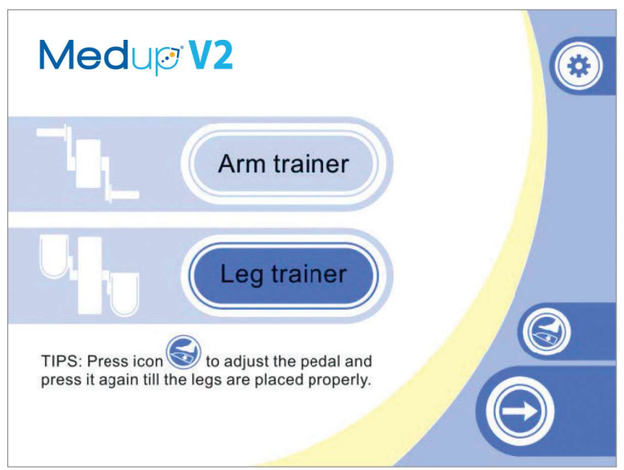
Self-inspection

Insert the power supply and turn on the switch button in the pedestal of the machine. The system will enter the self-inspection interface.



Main Interface

Within a few seconds, the main interface appears.



Icons

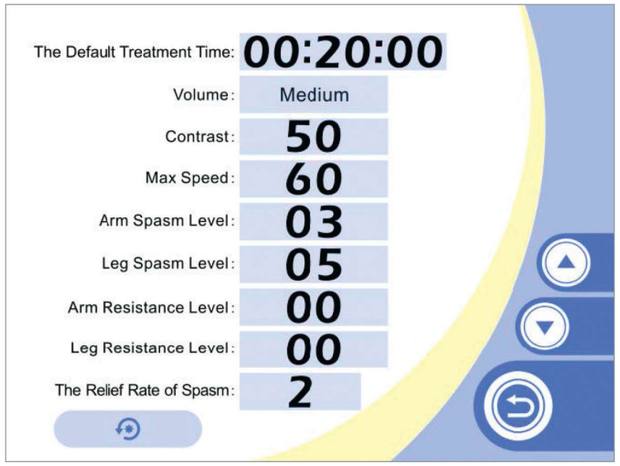
Arm trainer	Arm trainer	You have selected the arm trainer – box changes from light blue to dark blue
Leg trainer	Leg trainer	You have selected leg trainer – box changes from light blue to dark blue
	System setup button	Press to enter Parameter setting interface
	Pedal adjust button	Press to adjust pedal and press again until the legs are properly placed
	Enter button	Press to enter Passive Training interface

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Parameter Setting Interface

Press the icon in the main interface. It will enter the Parameter setting interface (see below), where the training parameters can be reset.

Once you have set the parameters, press the back key to return to the main interface.



Icons

	Up	Press to adjust parameters
	Down	Press to adjust parameters
	Back	Press to return to the main interface
	Restore defaults	Press to restore to factory settings

Table 1: Parameter settings

Parameter	Range	Default
Default treatment time	1-120min	20min
Volume	Low, medium, high	Medium
Contrast	0-100	50
Maximum speed	5-60 rpm	60
Arm spasm level	1-10 or OFF*[1]	03
Leg spasm level	1-10 or OFF	05
Arm resistance level	0-24	00
Leg resistance level	0-24	00
Spasm relief rate	1-5	2

NOTE: If you want to close the spasm level, select the Spasm Level box, then click the "down" button until "OFF" is displayed. This means you have closed the spasm level. Close Spasm Level settings are only maintained during the session, after which it reverts to the default setting.

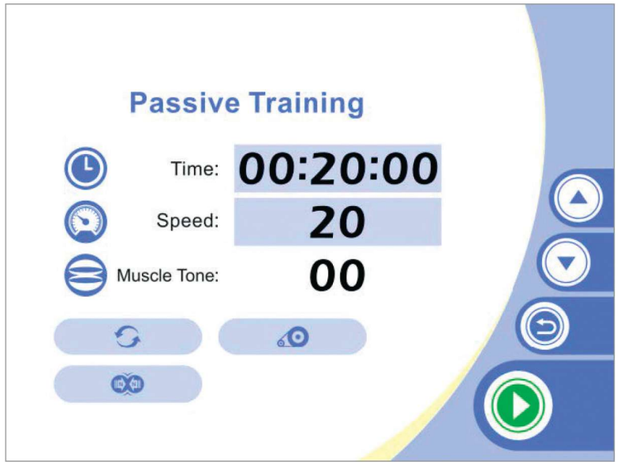
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Training interface

The **MedUp V2** has four training modes: Passive training, Constant speed training, Assisted training and Active training. The system can automatically perform transition between three modes – Passive training, Assisted training and Active training – according to the patient's condition during training.

Passive Training

Select Arm trainer or Leg trainer, and press the Enter button. The system will move into the Passive training interface, where you can only set speed and training time.



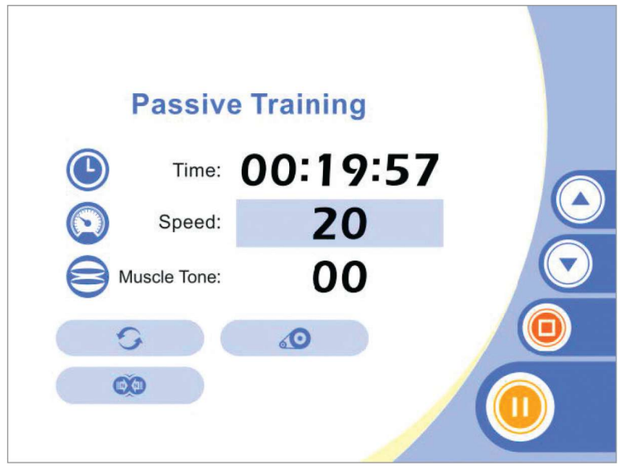
Icons

	Training time	Range from 1 to 120 minutes
	Speed	Range from 5 rpm to 60 rpm
	Muscle tone	Based on your actual muscle tone in real time, to show values
	Rotation direction	Press to change the rotation direction of the training handle or pedal
	Assisted training	Press until you reach the Assisted training interface
	Constant speed training	Press until you reach the Constant speed training interface

	Up	Press to adjust parameters
	Down	Press to adjust parameters
	Back	Press to return to the main interface. When the training starts, it will become the Pause icon.
	START	Press to start training. When the training starts, it will become the STOP icon.

NOTE: 1) When the parameter box is light blue, you can set the parameter.
2) The number in the box changes (blue) to indicate that you have selected the item.

Once you have set the speed and training time, press the START button to start your training.

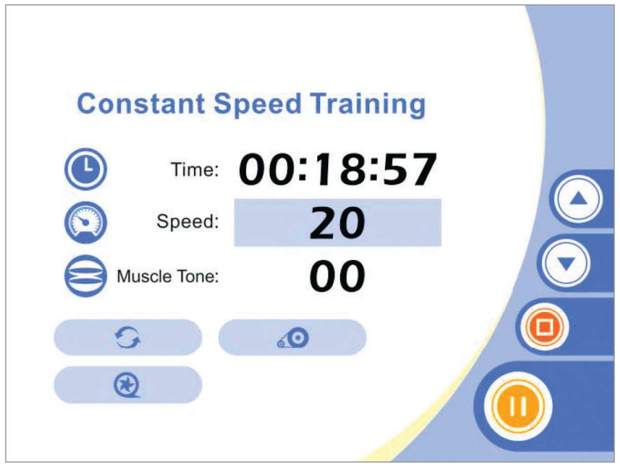


Icons

	Pause	Press to pause training
	STOP	Press to stop training

Constant Speed Training

Press the Constant Speed Training button in the Passive Training interface. The device will switch to the Constant Speed Training interface. The speed of the training handle or pedal is constant.



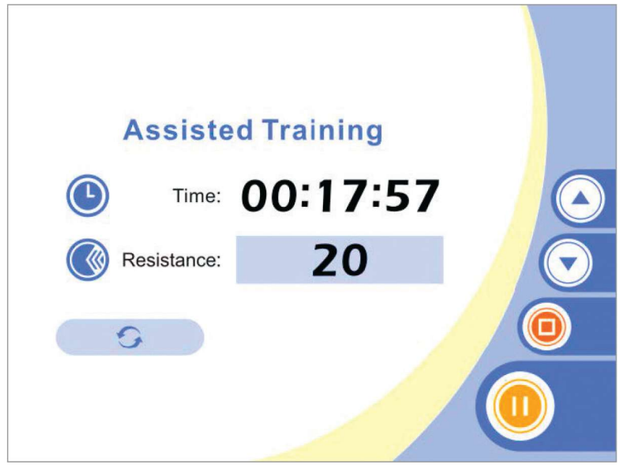
Icon

	Passive training	Press until you reach the Passive Training interface

Assisted Training

Press the Assisted Training button in the Passive Training interface. The device will switch to the Assisted Training interface.

When the patient is no longer able to pedal or gets tired, the trainer automatically switches to the passive training mode. If the actual speed of the motor is greater than the set speed, the trainer will automatically switch to the active training mode.



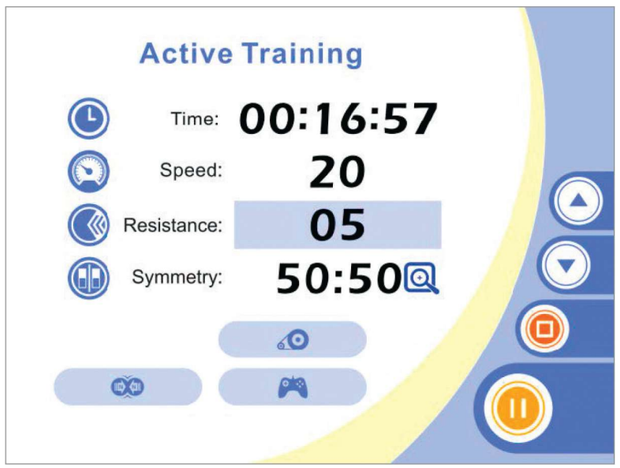
Icon

	Resistance	Range from 0 to 24. The higher the value, the greater the resistance.

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Active Training

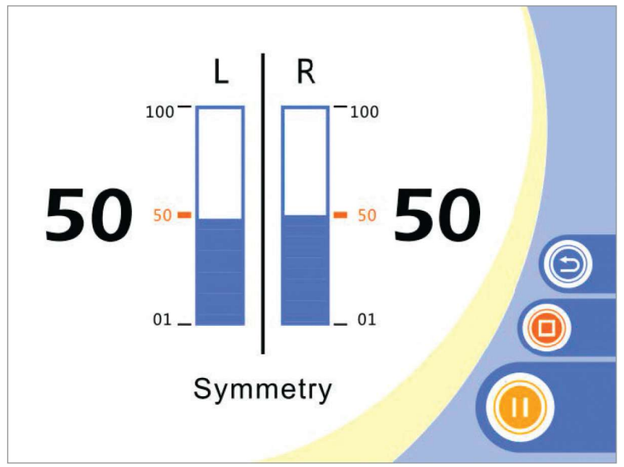
If the actual speed of the motor is greater than the set speed in passive training, the device will automatically switch to the Active Training mode, as shown in the following figure. In this interface, the only thing you can set is the Resistance revel (range from 0-24). The Resistance Level you set in this interface can be maintained until the end of this training.



Icons

	Enlarge	Press until you reach the Symmetry training interface
	Symmetry Game	Press until you reach the Symmetry Game interface

Press the Enlarge button to enter the Symmetry Training interface, which helps train your coordination. The two bar graphs show the activity of your arms / legs in two bars with the respective percentages.



Press this button to enter the Symmetry Game interface.



Balanced muscle activity on both sides

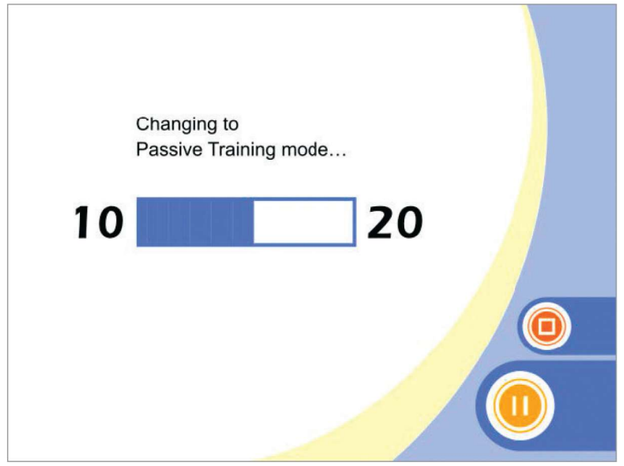


Left muscle activity is too high



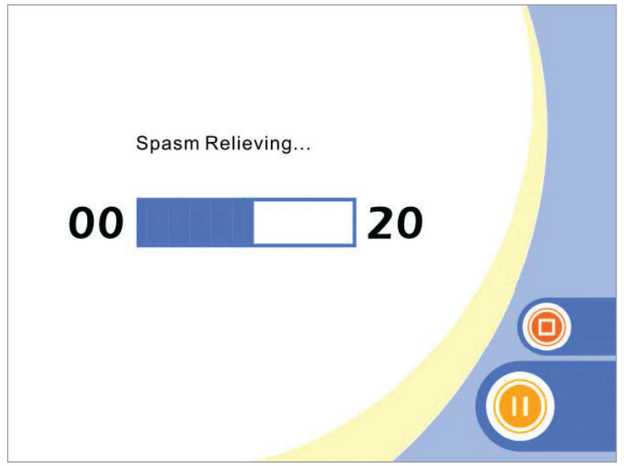
Right muscle activity is too high

If the actual speed of the motor is less than the set speed, the training device returns to the passive training mode.



Spasm Control

If a spasm occurs during training, the trainer can identify this and activate “spasm relief”. The speed of the motor slows down to a stop and the direction of the rotation changes, followed by a slow increase to the original speed to relieve the spasm and the system automatically enters the passive training mode. The spasm relief interface is shown below.



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Pause or end training

If you want to pause during the session, press the Pause button. The system will beep at the end of the training, this sound automatically stops after three beeps. The trainer will automatically stop and display the analysis data, as shown in the figure below.

To stop the training, press the Stop button.

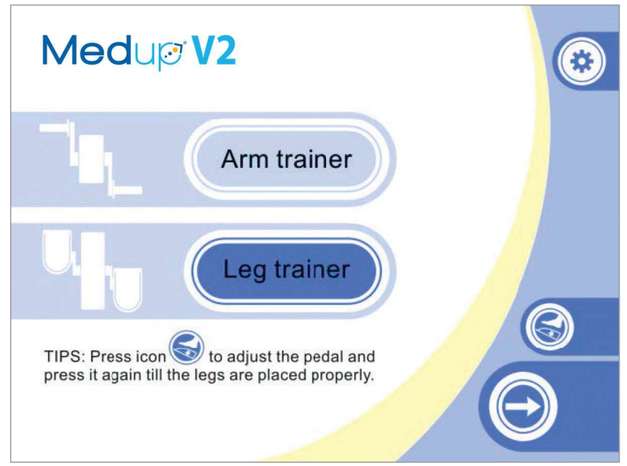
Press the back button to exit analysis and return to the main interface. The data will be cleared.

NOTE: The training data analysis will show after at least 1 minute of training.



Manufacturer's information

Press the MedUp logo button in the upper left corner of the main interface to show the manufacturer's information. The software version will be displayed in the lower left corner of the screen.



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OPERATING STEPS

Preparation before Training

1) Make sure the trainer is on a stable surface
2) Connect the power cord: plug the male end of the cord into an appropriate electrical outlet, and plug the female end into the socket on the unit.
3) Press the Power switch to start the unit.

⚠ WARNING

Before you plug the MedUp V2 into a socket, please check that the voltage of the device stated on the marking corresponds to the power supply voltage. The MedUp V2 is grounded through the wire in the mains cable.

Adjusting the Trainer

1. Adjusting the arm trainer height

The height of the arm trainer is adjusted using the large screwknobs on the supporting module. It is adjusted to the proper position based on the patient's condition, so it is suitable for training patients of varying heights.

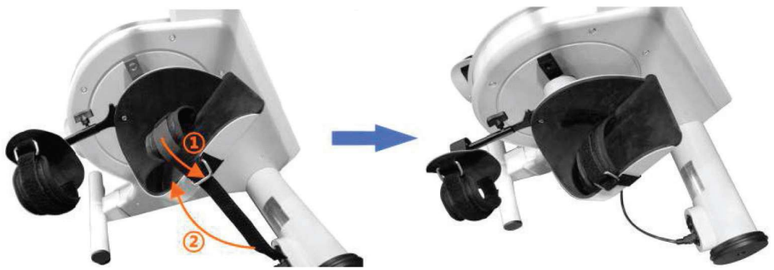
2.Adjusting calf support (leg training)

The calf support helps protect the patient's legs. Use the knob toadjust the calf support height so it fits the calf.

3. Fixing feet and lower legs (leg training)

Use the straps to quickly and securely attach the feet and lower legs to pedals or calf supports.

In the user interface, press the button to activate the pedals. When they reach the right place, press the button again to stop the pedals. Place the patient's feet on the pedals. Follow the steps in the figure below to secure the feet, and adjust the length of the strap so it can hold the feet securely. The calf support works the same way as the foot attachment.



⚠ CAUTION

Before each training, you must check to ensure the feet are in the correct pedal position and are secured with straps.

⚠ CAUTION

Put your feet into the pedals only while seated. Do not put your feet into the pedals while standing. Your hands should not touch the pedals.

4. Adjusting arm trainer direction

Before training, the arm trainer can be adjusted to 180 degrees, based on the patient's training, using the large screw knob beside the handlebar. The process is shown in the figure below.



5. Fixing hand straps (arm training)

Attach the patient's upper limbs using the hand straps. The process is shown in the figure below.



Interface Operation and Parameter Settings

See the chapter titled “Introduction to Interface” for details.

STEP 1: PARAMETER SETTINGS

Press the icon in the main interface to enter the parameter setting interface. The appropriate training parameters should be set by a health professional, according to the patient’s actual condition. Once you have set the parameter, press the back key to return to the main interface.

1) **Default treatment time setting:** Choose the Default treatment time box, then press the or button to adjust. The default treatment time falls in a range from 1 to 120 minutes.

2) **Volume setting:** Choose the Volume box, then press the or button to adjust. There are three volume options: Low, Medium and High.

3) **Contrast setting:** Choose the Contrast box, then press the or button to adjust the screen contrast. The contrast ranges from 0 to 100.

4) **Max speed:** Choose the Max speed box, then press the or button to adjust the maximum speed during training. The maximum speed ranges from 5 rpm to 60 rpm.

5) **Spasm Level setting:** Choose the Arm spasm level or Leg spasm level box, then press the or button to adjust. Spasm level ranges from 1 to 10. To close Spasm Level, select the Spasm Levelbox, then click the down button until “OFF” is displayed. This means you have closed Spasm Level. Close Spasm Level settings are only maintained during the session, after which it switches to the default setting.

6) **Resistance Level setting:** Choose the Arm Resistance Level or Leg Resistance Level box, then press the or button to adjust. Resistance Level ranges from 0 to 24.

7) **Relief Rate of Spasm setting:** Choose the Relief Rate of Spasm box, then press the or button to adjust. Relief Rate of Spasm ranges from 1 to 5.

8) **Restore Defaults:** Press to restore the factory settings.

STEP 2: SELECT TRAINING AREA (ARM OR LEG)

Press Arm trainer or Leg trainer to select the correct training area. Press the Enter button; the trainer will enter the Passive training interface.

- **Passive Training Mode**
  In this interface, you can only set speed and training time. After setting up the parameters, press the Start button in the lower right corner of the interface to start training.
- During the training process, Passive training mode will be displayed. The system can automatically perform the transition between three modes: Passive Training, Assisted Training and Active Training, depending on the patient’s condition during training.
- If the training process has to be suspended, please click the Pause button; if you need to stop training while the device is in use, please click the STOP button.
- If you want to pause during training process, press the Pause button. If you need to stop training, press the STOP button.

1) **Time setting:** Ranges from 1 to 120 minutes, in 1-minute increments.

2) **Speed:** Ranges from 5 rpm to 60 rpm (maximum speed in this interface is no greater than the maximum speed you set in the Parameter setting interface), in 1-rpm increments.

3) **Muscle tone:** Values shown are based on your actual muscle tone in real time.

4) **Rotation direction:** Press to change the rotation direction of the training handle or pedal.

- **Constant Speed Training Mode**

Press to enter the Constant Speed Training mode.

- **Assisted Training Mode**

  Press to enter the Passive Training mode. In this interface, you can only set the Resistance Level. When the residual muscle strength disappears, the trainer will automatically switch to the Passive Training mode.

- **Active Training Mode**

  If the actual speed of the motor is greater than the set speed in Passive Training, the device will automatically switch to the Active training mode.

1) **Resistance Level setting:** Ranges from 0 to 24.

2) Press the button to access the Symmetry Training interface.

3) **Symmetry Game:** Press this button to access the Symmetry Game interface.

End of Training

1) At the end of the training, the system will beep. Training will stop automatically and the analysis data will display. Press the back button to exit analysis and return to the main interface. The data will be cleared.

NOTE: Training data analysis will show after at least 1 minute of training.

2) Turn off the power and unplug the power cord.

3) Release the hand/foot straps and remove both hands/feet from the training handles or pedals.

CARE AND MAINTENANCE

Cleaning

1. Please turn off and unplug the device before cleaning and disinfecting it.
2. For cleaning the main unit, we recommend a clean, soft, damp cloth for stains and a clean, soft, dry cloth for dust on the surface.
3. Hand wash the surfaces of straps, using a soft cloth moistened with water; clean the key parts with 75% alcohol, then air-dry for about 30 minutes.

⚠ CAUTION

- **Do not clean the main unit with an organic solvent such as gasoline or a diluent; otherwise damage, such as deformation and peeling paint, will occur.**
- **Do not use bleach to clean the straps.**
- **Do not expose the straps to high temperature or high pressure when sterilizing.**

Routine Maintenance

If the device is used in accordance with the instructions in the user manual, no particular regular maintenance is required. The manufacturer will provide circuit diagrams, component part lists, descriptions and calibration instructions to assist service personnel with parts repair.

The unit and accessories must be checked at regular intervals.

1) Before you plug the **MedUp V2** into a main socket, please ensure that the device voltage stated on the marking corresponds with the power supply voltage.
2) Check the cord to ensure there is no distortion, fracture, etc. These circumstances may cause a fire hazard. If applicable, please replace with a new power line immediately.
3) Please have professional maintenance personnel clean the dust inside the device after one year of use.
4) Please have professional maintenance personnel remove the batteries in the display if the device is not in use for a long time (more than 6 months).
5) Please store the device in a dry, ventilated place, and cover with a dust blanket when not in use.

⚠ WARNING

Never perform unauthorized maintenance. All maintenance should be performed only by service technicians who have been authorized by the manufacturer.

Fuse Replacement

1) Fuse specification: F2AL250V (Ø 5 × 20mm)
2) When replacing the fuse, please follow the steps below:
   a) Turn off the power switch
   b) Unplug from the power source
   c) Use a screwdriver to unscrew the fuse shell
   d) Remove the bad fuse and replace with a new fuse (see figure below)
   e) Load fuse shell back into original position
   f) Plug into power source.



WARNING

Please turn off the power switch and unplug the device from the power source when replacing the fuse, to avoid electric shock. Use a screwdriver to remove the fuse.

TROUBLESHOOTING

NOTE: If the following measures fail to alleviate the problem, please call the distributor.

Problem	Possible cause(s)	Solutions
1.No response after starting the device	1.Lack of power 2.Fuse may be burned out.	1.Check to ensure the device is connected in two places (power plug and socket of instrument) 2.Replace the burned fuse with a new one (Specifications: F2AL250V)
2.The training handles cannot be rotated.	1.The START button is not pressed 2.Leg trainer has been selected	1.Press the START button 2.Select the Arm trainer.
3.The pedals cannot be rotated.	1.The START button is not pressed 2.Arm trainer has been selected	1.Press the START button 2.Select the Leg trainer
4.Excessive noise during operation.	1.Trainer is not in a stable position 2.Large screw knob not tightened.	1.Place the trainer in a stable position 2.Tighten the large screw knob.

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ASSISTANCE AND SPARE PARTS

Every intervention on the device must be performed by the manufacturer. For any intervention assistance and for original spare parts, please contact the manufacturer at the following address:

Atlas Medic inc.

80, rue de Sydney
St-Augustin-de-Desmaures
Quebec, Canada G3A 0P3

www.atlasmedic.com

To preserve the product warranty, functionality and product safety, we recommend using original spare parts only.

WARRANTY

The Manufacturer warrants that the **MedUp V2** is free of material and workmanship defects in the main unit. This warranty shall remain in effect for two years (24 months) from the date of the original consumer purchase. If this product fails to function during the two-year warranty period due to a defect in materials or workmanship, the Manufacturer or the authorized dealer will, at the Manufacturer's discretion, repair this Product without charge.

This warranty does not cover:

- Replacement parts or labour provided by anyone other than the Manufacturer, the authorized dealer or a certified Company service technician.
- Defects or damage caused by labour provided by someone other than the Manufacturer, the authorized dealer or a certified Company service technician.
- Any malfunction or failure in the Product caused by product misuse,including, but not limited to, the failure to provide reasonable and necessary maintenance, or any use that is inconsistent with the User Manual.

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