



MAGNETOTHERAPY



User Manual

MAGNETOVET 4000 HORSE



DEAR CUSTOMER

THANK YOU FOR CHOOSING A GLOBUS PRODUCT. WE REMAIN AT YOUR DISPOSAL FOR ANY ASSISTANCE OR ADVICE YOU MAY NEED

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The device was manufactured in compliance with the applicable technical standards, in order to ensure product safety.

The dimensions, the features and the images in this manual are not binding. The manufacturer reserves the right to make changes without prior notice.

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TECHNICAL FEATURES

Device:

Dimensions: 170x220x60 mm

Peso: circa 1,37 kg

Casing material: ABS

Protection level of the case: IP 20

Output channels for diffuser connection: 4 channels

Adjustable frequency: from 5 to 200 Hz, steps of 5 Hz.

Storage and transport conditions:

Temperature: from -25°C to 70°C.

Max. relative humidity: 0% - 93%

Conditions of use:

Temperature: from 0°C to 35°C.

Maximum relative humidity: from 15% to 93%.

Atmospheric pressure: from 700 hPa to 1060 hPa.

Emitted magnetic intensity:

200 average Gauss per channel with flexible solenoids, 800 total average Gauss (for 4 channels). The declared powers refer to accessories with two coils. In the case of accessories with more coils, the power is evenly distributed.

Power supply:

Dongguan Shilong Fuhua Electronic Co

Plug: 5.5-2.5-11 STRAIGHT

Input: 100-240V~, 50-60Hz 1.5A

Output: 18Vdc 3.33Amax

**Battery pack:**

Type: Ni-MH

Capacity: 4000 mAh

Voltage: 12 V

EQUIPMENT



The MagnetoVet 4000 Horse magnetotherapy device includes different pieces of equipment depending on the purchase option chosen. When opening the packaging, please check that the equipment is complete. If any items are missing, contact your dealer immediately.

MagnetoVet 4000 Horse – Item code G6589

Quantity	Description	Item code:
1	MagnetoVet 4000 Horse device	G6589
1	4000 mAh battery pack (inside the device)	G6638
1	Power supply (see technical features)	G6710
1	Carrying bag	N.A.
1	MagnetoVet 4000 Horse manual	G6623

Kit MagnetoVet 4000 Horse Pro – Item code G6593

Quantity	Description	Item code:
1	MagnetoVet 4000 Horse device	G6589
1	Therapeutic blanket	G6530
1	Therapeutic neck cover	G6531
8	40x15 cm flexible solenoids for the blanket and/or the neck cover	G6629
2	Y cables	G6709
1	4000 mAh battery pack (inside the device)	G6638
1	Power supply (see technical features)	G6710
1	Magnum test	G6713
1	Case with shoulder strap for MagnetoVet 4000 Horse	G6533
1	Velcro band to attach the case	G6532
1	Protection bag for device transportation	N.A.
1	Large bag for kit MagnetoVet 4000 Horse Pro transportation	G6762
1	MagnetoVet 4000 Horse manual	G6623
1	Blanket_Neck cover manual	G6621

Check carefully that the device and the diffuser (if included) are intact.

All the information provided can be subject to modification without prior notice.

The device can be used with a few optional accessories (see features on the website <https://www.globuscorporation.com/en/professional-products/vet/magnetotherapy/>). To purchase these accessories, please contact your dealer.

Description of the accessories

MagnetoVet devices can be used with a few optional accessories:

G6638 Battery pack (Ni-MH, 4000mA): to use the device for a short time without connection to the mains.

G6713 Magnum Test



The Magnum Test is used to check that the solenoids work properly. Connect the solenoid to the device, start a program, put the box upon a coil and check that a vibration is felt.

G6632 2-coil flexible solenoid



Two-coil flexible solenoid, with easily cleanable and sanitizable fabric. Compatible with therapeutic front boots Dimensions 35 x 10 cm.

G6629 4-coil flexible solenoid



Four-coil flexible solenoid, with easily cleanable and sanitizable fabric. Compatible with therapeutic blanket, therapeutic neck cover and back boots. Dimensions 40 x 15 cm.

G6039 Therapeutic bed



The therapeutic bed is made up of a mat (or two, depending on the purchased option) covered with a waterproof washable lining containing 4 solenoids, which create a uniform electromagnetic field in the central areas of the bed.

To connect the accessory to the MagnetoVet device, insert the connector into the appropriate slot. For large animals, connect both the connectors of the mats that make up the bed. Dimensions: 44 x 70 cm.

G6530 Therapeutic blanket / G6619 Therapeutic blanket with solenoids



Therapeutic blanket with 8 flexible solenoid pouches (4 coils, dimensions: 40x15 cm) and 2 central cable pouches, suitable for magnetotherapy treatments along the horse's back. Resistant, washable. Equipped with 5 adjustable fastening straps, 3 straps for the connection to the therapeutic neck cover, 3 practical handles for positioning the blanket over the horse's back. Cables and extensions are included. One size fits all. Dimensions: length from withers (A) to tail (B): 142 cm. Weight (without solenoids): 1.80 kg; Materials: 96% polyester, 4% polypropylene.

G6531 Therapeutic neck cover / G6620 Therapeutic neck cover with solenoids



Therapeutic neck cover with 2 flexible solenoid pouches (4 coils, dimensions: 40x15 cm), suitable for magnetotherapy treatments along the horse's neck. Resistant, soft and washable. Equipped with 3 adjustable fastening straps and 3 straps for connection to the therapeutic blanket. One size fits all. Dimensions: length from ears (A) to withers (B): 121 cm. Weight (without solenoids): 0.56 kg. Materials: 94% polyester, 3% polypropylene, 3% expanded polyethylene.

G6256 Therapeutic front boot / G6591 Therapeutic front boot with solenoids



Therapeutic front boot with 2 flexible solenoid inner pouches (2 coils, dimensions: 30x10 cm), suitable for treating the horse's front legs. Internally padded, it is equipped with 3 adjustable Velcro closures. One size fits all. Dimensions: boot height (A-B) 56 cm; variable carpal circumference: 46-55 cm; variable metacarpal circumference: 38-49 cm; variable phalanx circumference: 46-55 cm. Weight (without solenoids): 0.26 kg; Materials: 88% polyester, 9% expanded polyethylene, 3% polypropylene.

The boot is supplied in a convenient case with shoulder strap, for an easier transport.

G6255 Therapeutic back boot / G6592 Therapeutic back boot with solenoids



Therapeutic back boot with 2 flexible solenoid inner pouches (4 coils, dimensions: 40x15 cm), suitable for treating the horse's back legs. Internally padded, it is equipped with 3 adjustable Velcro closures. One size fits all. Dimensions: boot height (A-B) 75 cm; variable tarsus circumference: 43-54 cm; variable metatarsal circumference: 41-50 cm; variable phalanx circumference: 45-56 cm. Weight (without solenoids): 0.26 kg; Materials: 88% polyester, 9% expanded polyethylene, 3% polypropylene.

The boot is supplied in a convenient case with shoulder strap, for an easier transport.

G6533 MagnetoVet 4000 Horse case



Padded protective device case with adjustable strap. Includes a practical loop for the Velcro band and a rear Velcro for the attachment to the therapeutic blanket. Dimensions: 26x21x8 cm. Weight 0.38 kg

G6532 MagnetoVet 4000 Horse case band



Velcro band for attaching the MagnetoVet 4000 Horse case to the horse. Ideal for treatments without a therapeutic blanket. Dimensions: 240x87 cm. Weight: 0.28 kg; Material: 68% SBR, 29% CR/neoprene, 3% polypropylene.

INTENDED USE

The product has an estimated usable life of 5 years. It is advisable to return the device to the producer and/or the authorized center to perform security and maintenance checks every 2 years.

The MagnetoVet 4000 Horse device has been designed to be used in the following areas:

- veterinary clinics;
- veterinary physiotherapy;
- veterinary rehabilitation of the musculoskeletal system;
- pain treatments of the musculoskeletal system in general.

CONNECTION



Device

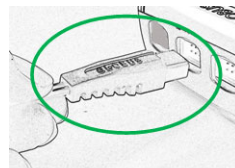
MagnetoVet 4000 Horse works both with batteries and in connection to mains. To connect the power supply to the connector, plug it as shown in the image. **Warning:** if the case, the cable or the connector of the power supply show signs of wear or damage, replace them immediately.

Connecting the solenoids: to connect the solenoids to the device, plug the connectors to the intended inlets in the upper part of the unit. **The cables must be inserted with the grooves facing downwards and the GLOBUS logo upwards** (see photo).



power













solenoids




OK

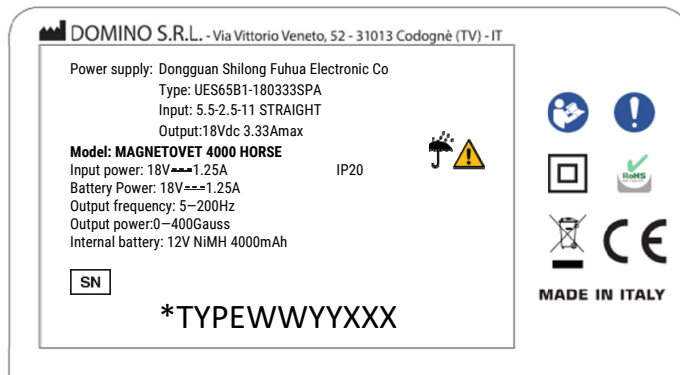
WARNING: do not unplug the solenoids (diffusers) if the unit is operating.

LABELLING AND SYMBOLS

	Warning
	This symbol on your device indicates that it complies with the requirements of the directives on electrical and electronic devices.
	Indicates that this is a II class device.
	WEEE symbol (Waste of Electrical and Electronic Equipment). Recycling symbol. The WEEE symbol used for this product indicates that the device may not be disposed of as a household product. The proper disposal of the product will contribute to protecting the environment. For further information on the recycling of this product, please contact the concerned office of your local body, the household waste management company or the store where the product was purchased. .
	It indicates that the product has been produced in compliance with the directive 2011/65/EEC.
	It indicates the intended temperatures for the storage and transportation of the product.
	It informs the operator that before using the device he must read the manual.
IP20	It indicates water protection.
	It indicates a compulsory behavior.
	It indicates the humidity of the environment where the device is used
	It indicates the humidity of the environment where the device and the accessories are used and stored.
	Indicates that the device and its accessories must be protected from humidity.
	It indicates the manufacturer.
LOT	It refers to the production lot.

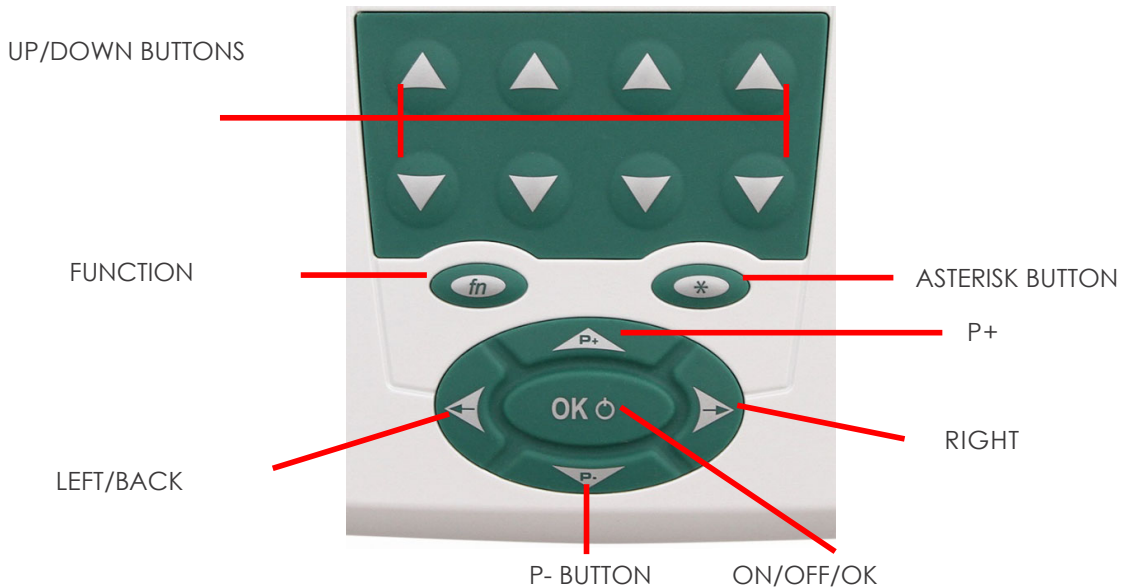
MAGNETOVET 4000 HORSE	
SN	Indicates the manufacturer's serial number, which identifies a specific device.
PRI	Mains voltage
SEC	Power supply voltage
Output	Output: - indicates the output voltage of the power supply - indicates the maximum power of the magnetic field emitted by the device - indicates the frequency range of the magnetic field emitted by the device
Power	It indicates the power supply model
Input	Input: it indicates the electricity mains voltage values for the power supply unit
	Indicates that the packaging material is recyclable.

Device labeling



SN The first 4 digits of the serial number (SN) indicate the week and year of production of the device (for example, if the code is ***0124 *****, the device was manufactured in the first week of 2024).

Dashboard/Keyboard



ON/OFF/OK button: turn on, turn off, confirm selection, pause treatment.

LEFT/BACK button: Moves the selection to the left. To go back to the previous selection. Press for 3" while the program is running to return to the previous step.

P+ button: to scroll up the menu or to increase the power (Gauss) delivered on all 4 channels simultaneously.

P- button: to scroll down the menu or to decrease the power (Gauss) delivered on all 4 channels simultaneously.

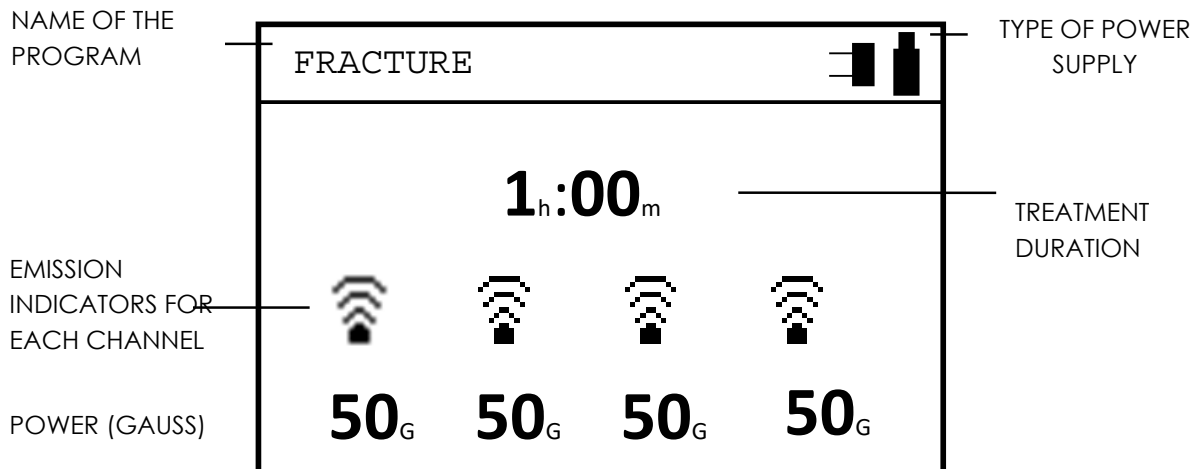
Right button: Moves the selection to the right. Press for 3" while the program is running to go to the next phase or end the treatment.

*** button:** shows the intensity emitted as peak Gauss.

Fn button: allows to change the parameters (Gauss, frequency, duration, duty cycle) of the program being used.

UP/DOWN button: allows to increase/decrease the power (Gauss) delivered to each single channel.




Display/Interface



ALARMS

Open circuit

The device is equipped with a power emissions control. Before starting any treatment, make sure that the diffuser is connected to the device and placed on the area to be treated.

	Correct power emission: the treatment proceeds correctly.
	Cable not connected. Check that the cable is connected to the proper output.
	Device paused: Press OK to continue the treatment.

NOTE:

If the "Unplugged cable" message appears, ensure that the device, the cables and the diffuser are intact and correctly used. If the problem persists, please contact the customer care.

WARNINGS AND CONTRAINDICATIONS



Mandatory behavior

For maximum safety, the device must be used respecting the rules and the limitations indicated by the user manual.

The manufacturer declines any responsibility due to a different use from what it is indicated in this manual.

The full or partial reproduction in any form and by any electronic or mechanical means of the texts and/or pictures contained in this manual without the written authorization of the manufacturer is forbidden.

if the case, the cable or the connector of the power supply show signs of wear or damage, replace them immediately.

The device should be connected to the mains with its power supply. Before starting this operation, make sure that the power system complies with the directives in force in your country. Make sure that the power supply will be easily unplugged from the mains.

Warnings before the use

Do not use the device with other electronic devices simultaneously, especially if they maintain vital functions.

If you have to use the device near or upon other devices, pay attention to how it is working.

- It is recommended to read carefully the entire operating manual before using the device; keep this operating manual with care.

-The unit must be used only with the diffusers provided with the original equipment (Globus brand) and according to the therapeutic modalities described in this manual.

- Before every use, always check the integrity of the device. This is a fundamental requirement for carrying out the therapy; do not use the device if the buttons or the cables are defective or malfunctioning.

The device:

- Should be used only by people over 18 and, in any event, who are able to understand and take action.

- Must be used following the indications and under the strict control of a certified veterinary physician or physiotherapist;
- Must be kept out of the reach of children.
- Should not be used without the veterinarian's prescription, in case of health problems;
- as you turn the device on, make sure that the software version and the model of the device appear on the screen, which means that the device is working and ready to be used. If it does not show that information or it does not show all the segments, turn it off and on again. If the problem persists, contact the service center and do not use the device.

Warnings during the use

The device is intended for continuous operation.

While using MagnetoVet 4000 Horse, please comply with the following rules:

- The cables of the diffusers and of the power supply must not be wound up around the neck of people to avoid all risk of strangulation or suffocation.
- Mobile and fixed radio communication devices may influence the operation of the device.

Side effects

General intolerance to magnetic field therapy have been reported, such as: somnolence, restlessness and nausea. According to our experience, these effects are very rare. They have been observed especially in the treatment of the cervical spine; in this body area, it is advisable to avoid treatments over thirty consecutive minutes.

Contraindications

Absolute contraindication: treatment of patients with cardiac pacemakers or other permanent electrostimulators.

Contraindications:

- patients with cardiac rhythm disorders;
- pregnant mares and foals;
- open wounds, dermatitis and fungal infections;
- tendency to bleed;
- do not carry out this therapy at the same time as TENS and/or HOLTER;
- on noble organs (ovaries, heart, head, etc.);
- on feverish subjects;
- in case of neoplastic diseases, consult the vet doctor before using magnetotherapy.

MAINTENANCE AND CLEANING

Maintenance and cleaning of the device and the diffusers

- In case of actual or alleged malfunctioning, do not tamper with the device and do not try to repair it by yourself. Do not try to repair the device and do not open it. Only specialized and authorized centers can repair it.

- Avoid violent impacts that may damage the device and cause malfunctioning, also not immediately detectable.

Use this device in a dry, open-space environment (not wrapped in any materials).

- Clean the device and the accessories only with disinfectant with sodium hypochlorite or quaternary ammonium salt diluted with distilled water (percentage: 0.2-0.3%). After cleaning/disinfecting the device and its accessories, dry them perfectly with a clean cloth.

- Always use the device and the accessories with clean hands.

- It is recommended to use the device and the accessories in a clean environment to avoid contamination with dust and dirt.

- It is recommended to use the device in a ventilated, well-aired space.

- The parts should be cleaned/disinfected after every use, unless otherwise indicated.

Disposal of the device

Do not throw the device or parts of it into the fire; dispose of the product in the specialized centers and respecting the regulations in force in your country.

When the product has to be disposed of, the user can give it back to the retailer when purchasing a new device.

Correct waste separation or following the above-mentioned procedure contribute to avoiding possible negative effects on environment and health and promote the reuse and/or recycle of the materials that compose the device. The illegal disposal of the product entails the application of administrative fines in accordance with applicable regulations.

USER MANUAL

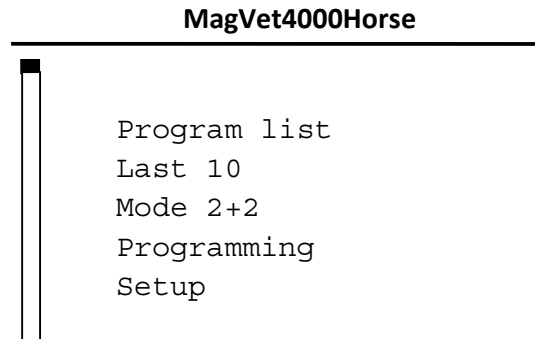
Turn on/off

Connect the device to the mains or make sure that the battery has been inserted.

To turn on or off, press and hold the On/Off (OK) button until an acoustic signal is heard. When turning the device on, the animation indicating the model will be displayed on the screen. Confirm with OK to access the subsequent menus.

Start menu

Use P+ and P- to select and confirm with OK.

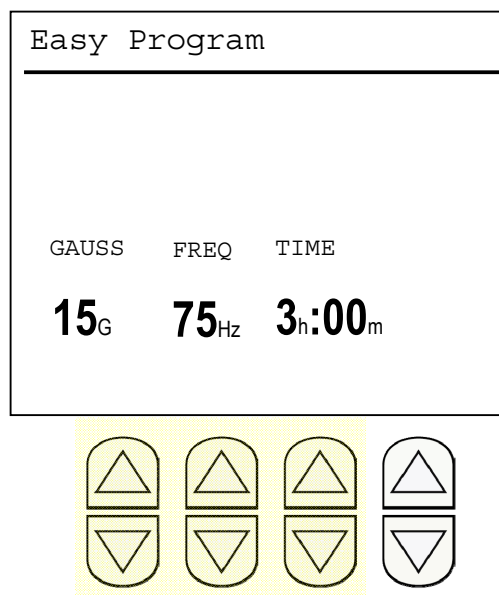


EASY PROGRAM

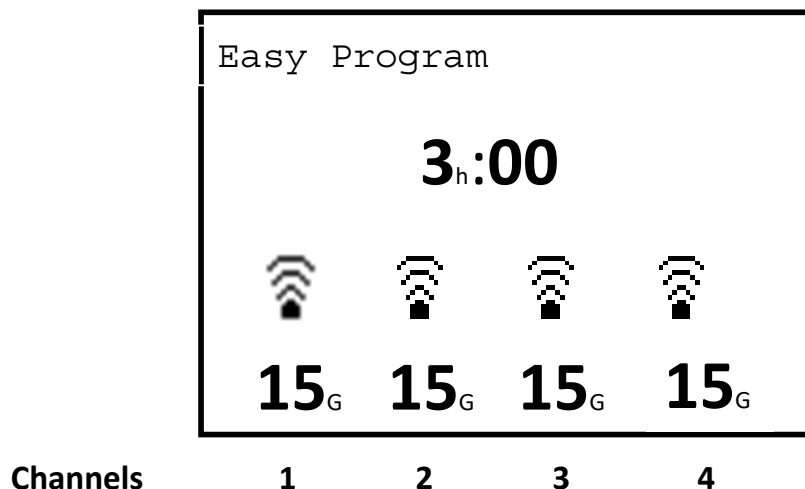
This function can be used to perform a specific treatment when you already know the parameters to enter. The Easy program is set to 50 Gauss for each channel by default.

Quick parameter editing in Easy Program

The parameters stored in this section are suitable for treating the joint pain and arthrosis of the animal. To change the Gauss, if needed, use the Up/Down buttons under the indication of each channel to make the change only on that specific channel. To change the frequency and the duration of the therapy as well, press the fn button and use the first three pairs of increase/decrease buttons (highlighted in yellow in the picture below). Each button edits the corresponding parameter on the screen.



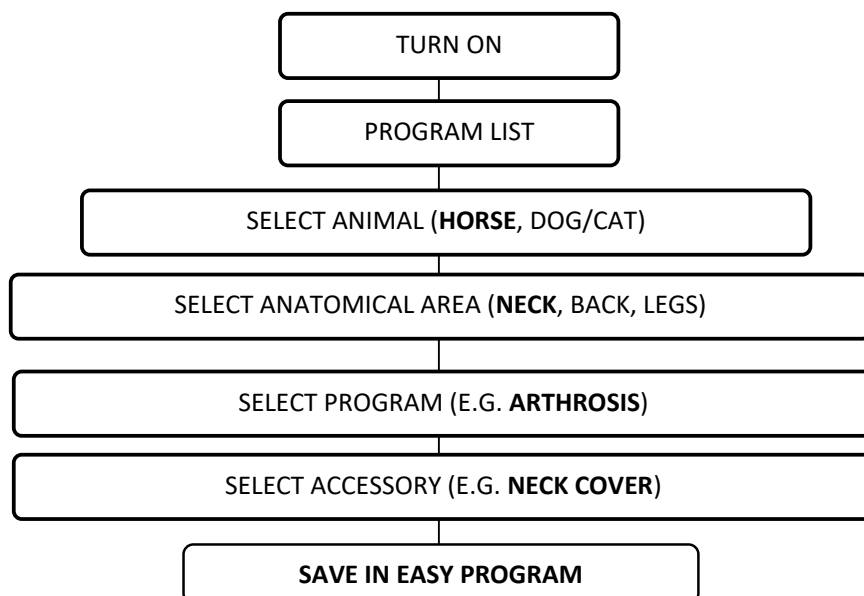
After modifying the data, the screen returns to the previous area and you can start the treatment by clicking OK.



The modified parameters are stored in memory (after the treatment has been performed or by pressing and holding the right button) after turning the machine off or by exiting the screen with the back button. After the first setup, every time the device is turned on, the treatment can start in two clicks by going to Easy Program. NOTE: if the set Gauss are different for each channel, the device will store the power you've set on the first channel.

Saving a program quickly from Program List to Easy Program

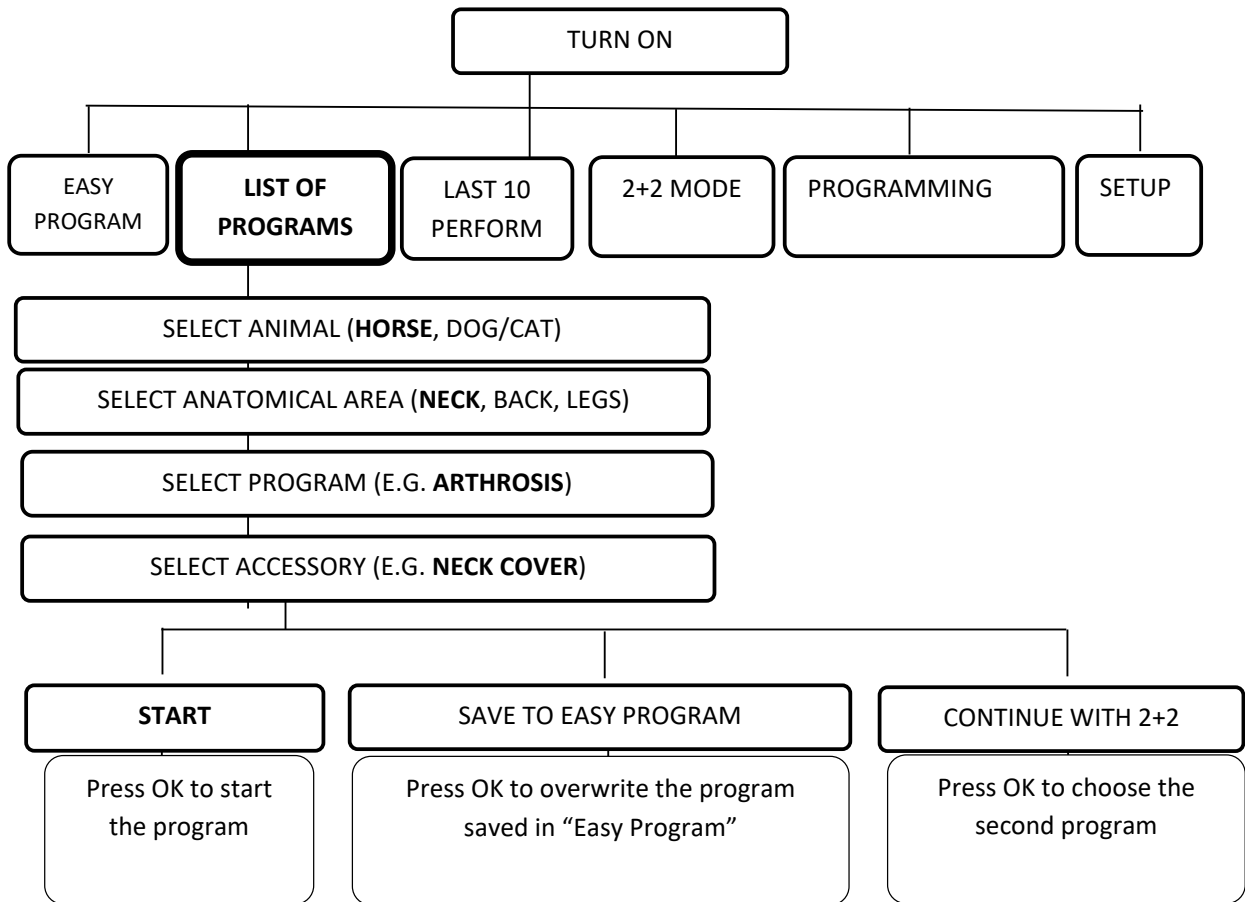
If the vet doctor has prescribed a duration and/or power different from those of the listed programs (e.g. horse arthrosis), follow these steps:



After the acoustic signal, press the back button to go back to the starting menu and select Easy Program (a screen with the pre-set parameters for the previously selected program appears). Edit the parameters and perform the treatment (or press and hold the right button to end the treatment). The edited program will always be available in Easy Program.

PROGRAM LIST

From the starting menu, it is possible to go to the list of pre-set programs. The following flowchart shows an example of how to select an Arthrosis program for a horse, to be performed with a Globus therapeutic neck cover.



Program List menu

By confirming the program list menu, the following animal options appear:

- **HORSE**
- **DOG/CAT**

With the P+ and P- buttons, place the cursor on the area to select and press OK to confirm.

When choosing **HORSE**, the next screen asks what anatomical part to treat:

- **NECK**
- **BACK**
- **LEGS**

By confirming the area to be treated with the OK button, the device will ask you to choose the program first and then the accessories you want to use (different accessories will be recommended based on the anatomical area chosen):

- **SOLENOIDS** (see "Accessory descriptions")
- **NECK COVER** (see "Accessory descriptions")
- **BLANKET** (see "Accessory descriptions")
- **BOOTS** (see "Accessory descriptions")

After selecting **DOG/CAT**, you will access the program list and then you will be asked about the accessory:

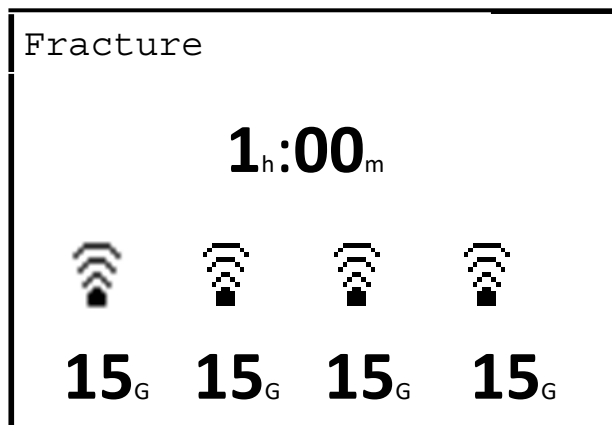
- **BED** (see "Accessory descriptions")

- **SOLENOIDS** (see “Accessory descriptions”),

except for the “Cicatrizization” program, where solenoids are mandatory, as this localized problem does not require larger accessories.

Start program

To start the program, **select Start** and press OK. The screen will show: the program name, the connected solenoids, the total duration of the treatment and the emitted Gauss for each channel.



How to pause/stop the program

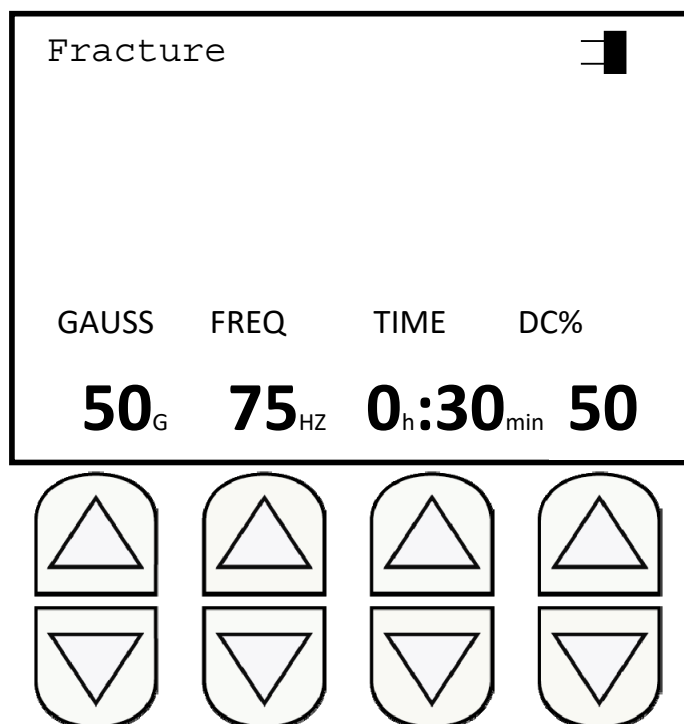
To pause the program, press OK. Press OK again to go back to the program execution. During the pause, pause icons appear on the screen. To end the program in advance, press the right button (to return to the screen which appears before the start of the program) or OK until you hear a continuous beep (the device turns off).

Display peak Gauss

While the device is operating, it is possible to display the maximum intensity of the field by pressing *. This value indicates the intensity peaks of the magnetic field. Press * again to go back.

Adjusting program parameters (Runtime function)

To edit the default parameters in a program press fn. A summary of the program parameters will appear: Gauss (field), frequency (measured in Hz), time (indicated in h:min) and duty cycle (DC %). To increase or decrease the values, use one of the four pairs of arrows on the keyboard located just below, corresponding to the parameter you want to change.



The maximum duration of the treatment is 9 hours 59 minutes.

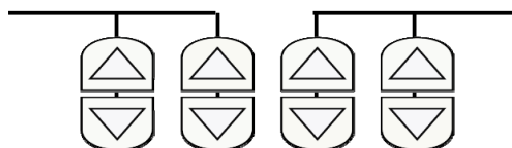
The duty cycle can be adjusted from 5% to 50% in steps of 5.

After adjusting the parameters, wait a few seconds until the current program appears again.

Increase/decrease default power

The power can be adjusted for each channel by using the Up and Down buttons or on all channels simultaneously with P+ and P-.

Channel 1 and 2
power adjustment



Channel 3 and 4
power adjustment

"Last 10" menu

MagnetoVet 4000 Horse keeps track of the last ten programs performed. This way, these are available for a quick and very easy execution.

The programs are automatically stored at the end of the execution. If the memory is full, the "oldest" program is automatically deleted.

To start one of the last 10 programs executed, from the main menu, select "Last 10" and confirm with the OK button.

Select the program you want to run with the OK button. If there are no programs in this menu, the word "EMPTY" will appear.

After confirming your choice, you can launch the program or delete it from the list. By placing the cursor on "Start" and pressing OK it is possible to execute the selected program. By pressing "Delete from list", instead, the program will be deleted from the "Last 10" list.

Last 10 executed 1-10

- ✓ Horse
- Solenoids
- ▶ Fracture

In the example image: the position (in this case the program is the first in the list) where the program is stored is displayed in the top right, out of a total of 10 possible saves.

Important: if during the execution of a program the duration of treatment and/or the emitted field are modified, the program stored among the "Last 10" will maintain the duration and Gauss changes.

This function can be particularly useful if the user has to carry out a treatment cycle with a program which needs a duration longer than the default one.

Quick save of a program in the "Last 10"

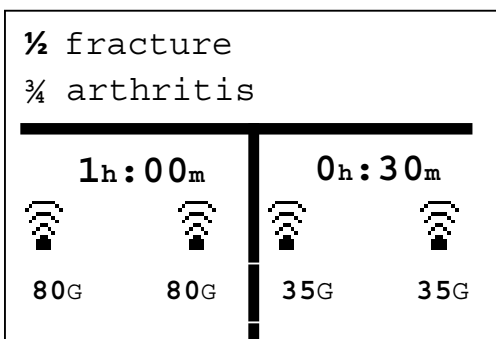
Sometimes, there may be a need to change the duration and the emission field of a treatment and find the changes made in the last 10 programs, but you don't have the time to wait for the end of the program. By pressing the Right button for a few seconds, the program ends and is stored in "Last 10" along with the changes (duration and field, while duty cycle and frequency stay as in the default program).

"2+2 Mode" menu

The device allows to run two different programs simultaneously to treat multiple subjects or body areas at the same time or use multiple accessories.

To execute two different programs simultaneously, choose the first desired program in the "Program list". At this point, select "Continue in 2 + 2" and choose the second program.

When running programs in "2+2 Mode" the following screen appears (for example):



The program on the left side of the screen will work on channels 1 and 2, while the one on the right on channels 3 and 4.

It is possible to change the duration of the two programs by pressing fn and Up/Down at the same time (the first pair of arrows modifies the hours of the program of the first and second channel, the second pair of arrows is for the minutes).

To adjust the Gauss, use the Up/Down buttons corresponding to the channel for which you need to modify the field.

Important: In "2+2 mode", you can only change the duration of the single program, but neither the frequency nor the duty cycle.

The "2+2 mode" is very useful if you want to use different accessories at the same time. The example in the figure shows the treatment of a horse neck fracture with the neck cover (program delivered on channels 1 and 2) and at the same time of a leg arthritis with the therapeutic boot (channels 3 and 4).

“Programming” menu

MagnetoVet 4000 Horse offers the possibility of creating new programs.

From the “Programming” menu, it is possible to create new programs (when the word “EMPTY” appears it means that there are no saved programs) or run previously stored ones. These can be modified at any time (see “Edit program”).

Important: The programs created in the “Programming” menu will not be stored in the last 10.

How to create a new program

With P+ or P-, select the spot where you want to create the program and confirm with OK.

How to type the name of the program

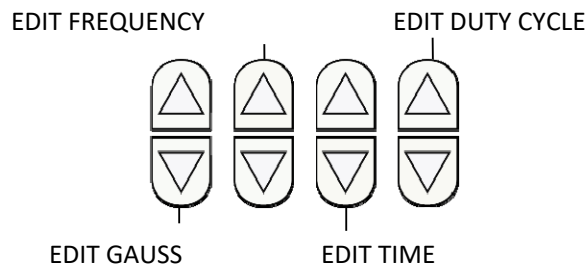
Use the joypad buttons to select the letters and confirm with the OK button. To delete a letter, select “Delete”. After inserting the name of the program select “OK”.

Set the parameters

After performing these steps, a screen to modify the four necessary parameters as needed appears: field (Gauss), frequency (Hz), time (h, min) and duty cycle (%).

After entering all the parameters, press OK and confirm or discard the saving of the program just created.

Programming		1-10	
New program name			
GAUSS	FREQ	TIME	DC%
15_G	100_{Hz}	0_h:30_m	50



Running a new program

The programs created and saved in Programming can be run by clicking OK => “Run”, which will be followed by the options:

- Start
- Save to Easy Program

Edit or delete a program

Within the “Programming” menu it is possible to modify or delete previously stored programs. Press “fn” + “P+” to edit or “fn” + “P-” to delete the program.

“Setup” menu

In the setup menu it is possible to edit some of the following fields:

- Lighting time
- Contrast
- Auto shut-off time
- Language selection
- Sounds of Service
- Battery management
- System info

Lighting time

It allows to adjust how long the display will remain lit after the last command given to the device, during its operation.

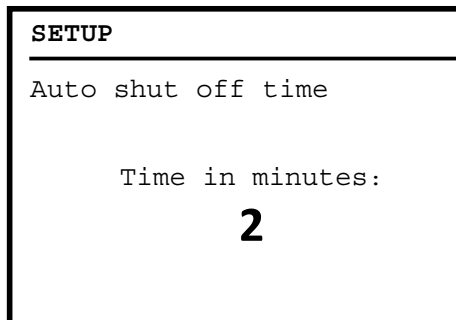
Contrast

It allows to adjust the display contrast to better see the characters.

Auto shut-off time

It allows to set the time after which, if not used, the machine switches off. It is possible to select from 2 to 9 minutes. Use P+ and P- to select and confirm with the Ok button.

This special function is only active in the case of use with battery.

**Language selection**

It allows to modify the language of the menus.

Use P+ and P- to select and confirm with the Ok button.

It is possible to choose among the following languages:

- | | |
|------------|---------------|
| 1. Italian | 4. French |
| 2. English | 5. German |
| 3. Spanish | 6. Portuguese |

Sounds of Service

It allows to enable (YES) or disable (NO) the acoustical beeps the device emits.

Battery management

The values shown in this menu allow the manufacturer to verify the charge state of the battery, if the device has a one. For the User, instead, it is possible to view the battery charge status directly on the display at the top right, for the entire duration of the treatment, thanks to the specific battery symbol, and during the charging of the device, thanks to the charging symbol and the message “Charge Completed”.

System info

Information for the manufacturer.

ACTION PRINCIPLE AND APPLICATION METHODS

What is magnetotherapy

Magnetotherapy is a type of physiotherapy that uses electromagnetic energy to stimulate tissue regeneration.

It uses the action of a magnetic field induced by the electric current flowing through a coil (solenoid). Magnetotherapy facilitates tissue-repairing processes and stimulates the natural organic defenses.

Based on their biological effects, magnetic fields perform two main therapeutic actions:

1. Antiphlogistic and antiedemigenous.
2. Stimulation of tissue-repairing processes.

Cell membranes are like "tiny batteries" with a measurable tension. More precisely, in healthy nerve cells the potential difference between the core and the external membrane is 90 millivolts, while it is about 70 millivolts in the other cells.

When the tension inside the cells tends to wind down, the organism feels the effects of that through inflammations, bone, joint and back pain or wounds that do not heal.

When these cells become ill, due to an infection, a trauma or any other cause, they lose their energy reserve.

A cell that should have a voltage of 70 millivolts if healthy, only measures 50/55 millivolts when sick. When voltage drops below 30 millivolts necrosis, i.e. the death of the cell, occurs.

The aim of magnetotherapy is to recharge and regenerate the cells which have lost their vital energy.

Magnetotherapy effects

Musculoskeletal pathologies are the most specific field of application of magnetotherapy.

All traumas, from small sprains to serious fractures, may benefit from this therapy, sometimes with a very fast recovery. Even bone pathologies had shorter repair processes and recovery times when treated with magnetotherapy.

Magnetotherapy, through low frequencies, may be considered as a first-choice therapeutic method, especially in the treatment of inflammatory, traumatic and degenerative pathologies of the osteoarticular and musculotendinous system.

- EFFECTS ON BONE TISSUE

Pulsed magnetic fields improve osteogenesis. The vascular supply increases (hypervascularization) as well as bone resistance.

- TISSUE ANTI-AGING

Action on collagen. Vasodilation. Improvement of skin and connective tissue metabolism.

- EFFECTS ON THE CENTRAL AND PERIPHERAL NERVOUS SYSTEM

Increase in ion exchange in the cellular membrane. Membrane stabilization with hyperpolarisation linked to the influence on the sodium/potassium pump and the ion exchanges. Electrical conductivity normalization. Analgesic effect. Better mental and individual performance. Neuroregulating effects on the diencephalon, the reticular substance, the hypothalamus, the adrenal gland, the liver and the spleen.

- EFFECT ON INFLAMMATIONS

Anti-edema effect. Effect on the sodium/potassium pump. Membrane permeability modification. Bacteriostatic activity. Muscular spasm resolution. Analgesic action. Faster soft tissue recovery processes.

Normalization of the potential difference between the damaged and the normal area of the cellular membrane (many pathologies have a potential imbalance).

General application methods

During magnetotherapy, the patient has no direct perception of the field being applied. The action is strictly connected to the reaction ability of the tissue components to the phenomena of magnetic induction.

Moreover, the duration of the exposition to the field plays a critical role and will vary depending on the age and the speed of the biological rhythm of the patient. The gradual action and the effectiveness of the treatment can be fully observed over a long time. This treatment is to be preferred for chronic diseases but the acute trauma can benefit from it with a reduction of the recovery time. In the symptomatic treatment of pain in the acute phase, other forms of physical therapy can be added for a more immediate response (IR laser, TENS).

The polarity of the magnetic field is indicated on the diffusers so that these can be used either individually or with a coherent concatenated field (i.e. one diffuser above the part to be treated and one below, the diffusers oriented with the same polarity) in order to combine the fields produced. The diffuser must be placed in contact with the body part to be treated. There is no need to shave the hair. To clean and disinfect the diffuser, use a cloth dampened with water.

Example of flexible solenoid connection

Place the solenoids on the part to be treated and, if needed, use elastic bands to keep them attached to the body.



Use of the two diffusers to create a coherent concatenated magnetic field. Indicated for deep treatments (e.g. fractures).



Use of the two diffusers for therapies on large parts like a whole limb or the back.

For more information on the use of the other accessories in the Globus Vet line, see the relevant user manuals.

PROGRAM LIST

HORSE program list

Treatment with flexible solenoids

Name of the program	Recommended power Neck	Recommended power Back	Recommended power Legs	Suggested treatment duration
Arthrosis	35 Gauss	35 Gauss	20 Gauss	30 min
Arthritis	35 Gauss	35 Gauss	20 Gauss	30 min
Fracture	50 Gauss	50 Gauss	40 Gauss	60 min
Delayed fracture consolidation	40 Gauss	40 Gauss	30 Gauss	60 min
Edema	N.A.	N.A.	20 Gauss	45 min
Discopathy	30 Gauss	30 Gauss	N.A.	45 min
Wound/Ulcer	30 Gauss	30 Gauss	30 Gauss	35 min
Anti-inflammatory	30 Gauss	30 Gauss	30 Gauss	60 min
Trauma/Contusion	35 Gauss	20 Gauss	20 Gauss	20 min
Muscle relaxation	35 Gauss	N.A.	N.A.	40 min
PRE-competition activation	20 Gauss	20 Gauss	20 Gauss	15 min
Post-competition recovery	40 Gauss	40 Gauss	40 Gauss	60 min
Muscle Injuries	20 Gauss	20 Gauss	20 Gauss	30 min
Decontracting	N.A.	20 Gauss	N.A.	40 min
Tendinopathy	N.A.	N.A.	20 Gauss	60 min

Treatment with therapeutic blanket, neck cover and boots:

Name of the program	Suggested neck cover power	Suggested blanket power	Recommended power Boots	Suggested treatment duration
Arthrosis	40 Gauss	60 Gauss	35 Gauss	30 min
Arthritis	40 Gauss	60 Gauss	35 Gauss	30 min
Fracture	80 Gauss	80 Gauss	60 Gauss	60 min
Delayed fracture consolidation	60 Gauss	60 Gauss	50 Gauss	60 min
Edema	N.A.	N.A.	40 Gauss	45 min
Discopathy	60 Gauss	60 Gauss	N.A.	45 min
Wound/Ulcer	30 Gauss	30 Gauss	30 Gauss	35 min
Anti-inflammatory	30 Gauss	60 Gauss	30 Gauss	60 min
Trauma/Contusion	40 Gauss	60 Gauss	40 Gauss	20 min
Muscle relaxation	35 Gauss	N.A.	N.A.	40 min
PRE-competition activation	40 Gauss	60 Gauss	40 Gauss	15 min
Post-competition recovery	80 Gauss	100 Gauss	80 Gauss	60 min
Muscle Injuries	40 Gauss	60 Gauss	40 Gauss	30 min
Decontracting	N.A.	60 Gauss	N.A.	40 min
Tendinopathy	N.A.	N.A.	40 Gauss	60 min

DOG-CAT program list

Name of the program	Recommended power with bed	Recommended power with solenoids	Recommended treatment duration with bed/solenoids
Fracture	60 Gauss	40 Gauss	60 min / 25 min
Arthrosis	50 Gauss	30 Gauss	60 min / 30 min
Discopathy	45 Gauss	30 Gauss	45 min / 20 min
Cicatrization	N.A.	20 Gauss	N.A. / 15 min
Inflammatory pain	50 Gauss	30 Gauss	30 min / 15 min

WARRANTY CONDITIONS

The device is guaranteed to the first user for 24 months from the purchase date against defects in materials or manufacturing, provided that it is used properly and kept in normal conditions of efficiency.

In order to take advantage of the warranty service, the user must comply with the following warranty clauses:

1. Products must be sent for repairs by and at the expenses of the Customer in their original packages.
2. The product's warranty is subject to the production of a fiscal document (fiscal receipt, receipted bill or sale invoice), attesting the product's purchase date.
3. The repair work shall have no effect on the original expiry date of the warranty and shall neither renew nor extend it.
4. If no defects are found, during the repair work, the costs related to inspection times shall in any case be charged.
5. The warranty becomes void where the fault has been caused by: impacts, falls, erroneous or improper use of the product, use of non-original power supplies or charger, accidental events, alteration, replacement/detachment of the warranty seals and/or tampering with the product. The warranty does not cover damages caused during transportation when unsuitable packages are used (see point 1).
6. The warranty does not cover the inability to use the product, other incidental or consequential costs or other expenses incurred by the purchaser.

NOTE: Before returning the device for repairs, we recommend to read carefully the user instructions contained in the manual.

In case of any faults caused to the device, refer to your retailer.

The manufacturer reserves the right to make any changes necessary to improve the aesthetics and quality of the product at any time.



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