

ULTRASOUND THERAPY

 User Manual

ULTRASOUNDVET 4000



DEAR CUSTOMER

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

Ultrasound 4000 is manufactured and distributed by:

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The device was manufactured in compliance with the existing technical regulations which guarantee the safety of the product.

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

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TECHNICAL FEATURES

Device

Case:	ABS food grade
Protection level of the handpiece:	IP 20
Size:	170x220x60 mm
Weight:	approx. 1000 gr.

Use Conditions

Storage and transportation temperature:	From -10°C to 45°C
Max. relative humidity:	from 30% to 75%
Temperature:	From 0°C to 35°C
Max. relative humidity:	from 15% to 93%
Atmospheric pressure:	from 700 hPa to 1060 hPa
Diffuser emissions:	2 frequencies of emission 1 - 3 MHz

Diffuser

Diffuser:	Ø 4,2 cm Head.
Emission:	Continuous, pulsed
Duty Cycle:	10%-100%
Maximum power:	3 W/cm ² (+/- 20%)
Protection level of the handpiece:	IP 68

Power supply:

Dongguan Shilong Fuhua Electronic Co
Type AC/DC
Model: UES65B1-180333SPA
PRI: 100-240V~, 50-60Hz 1.5A
SEC: 18Vdc 3.33Amax



Battery (optional accessory)

Battery pack:	Ni-MH 12V 4 Ah
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EQUIPMENT

- Carrying case
- Ultrasound Gel
- Power supply
- Device
- Diffuser
- User Manual

The device is supplied along with ultrasound gel, transducer (handpiece), bag, power supply and user manual. When opening the package, please check that the standard equipment is complete. If some elements should be missing, contact immediately the authorized retailer where you purchased the product.

Control carefully the integrity of the device and its accessories.

All the supplied information can be modified without previous notice.

The device can be combined with some optional accessories (see the features on our website www.globuscorporation.com). To purchase these accessories, please contact your dealer.

Accessories that are not included in the equipment (to be purchased separately)

- rechargeable battery (Ni-MH 12 V 4Ah)

INTENDED USE

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

The device can be used continuously when connected to the mains. In case of battery use, the number of treatments depends on the battery charge. The duration of the battery is 6 months, we suggest replacing it after that period.

UltrasoundVet 4000 has been conceived to be used in the following operating environment:

- veterinary offices;
- veterinary physiotherapy and rehabilitation centers;
- general pain treatments (in the veterinary field);
- general pain treatments (in the veterinary field);

The use of the device is permitted to veterinarians only.

CONNECTIONS

Device

Power supply by electricity mains. UltrasoundVet 4000 has to be connected to the electricity mains (the rechargeable battery can be purchased separately). To connect the power supply to the connector, plug it as shown below.



Solenoid

To connect the solenoid to the device, plug the connector in the intended inlet in the back part of the unit (see picture).

WARNING: do not unplug the solenoid if the unit is working



Accessories (rechargeable battery)

The device can be charged with a set of rechargeable nickel-metal hydride batteries (7.2V, 4Ah), with high performances and without memory effect (the rechargeable batteries are optional).

It is advisable to recharge the batteries when the battery light on the display indicates $\frac{1}{4}$. To charge the batteries, turn off the device and disconnect the solenoid, then connect it to the power supply by inserting the plug in the appropriate inlet (see picture).

Do not use a power supply different from the one provided with the device. Contact the customer service to replace the battery pack.

LABELLING AND SYMBOLS

	Warning
	This symbol on your device indicates that it complies with the requirements of the directives on electrical and electronic devices.

	<p>WEEE symbol (Waste of Electrical and Electronic Equipment). Recycling symbol. The WEEE symbol used for this product indicates that the product cannot be treated as a household waste. 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.</p>
	<p>It indicates that the product has been produced in compliance with the directive 2011/65/EEC.</p>
	<p>It indicates the optimal temperature for the storage and transportation of the product.</p>
	<p>It informs the operator that it is compulsory to read the manual before using the device.</p>
<p>IP20</p>	<p>It indicates water protection</p>
	<p>It indicates a compulsory behavior</p>
	<p>It indicates the pressure of the environment in which the device and the accessories are transported and stored.</p>
	<p>It indicates the humidity of the environment where the device and its accessories are used and stored</p>
	<p>It indicates the manufacturer.</p>
	<p>It refers to the expiry date of the product</p>
<p>LOT</p>	<p>It refers to the production lot</p>
	<p>Symbol of polyethylene</p>
<p>Input</p>	<p>Input: it indicates the value of the mains voltage for the power supply</p>
<p>Output</p>	<p>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</p>
<p>Type</p>	<p>It indicates the device type</p>
<p>Power</p>	<p>It indicates the power supply model</p>

PRI	Mains voltage
SEC	Power supply voltage

Accessories

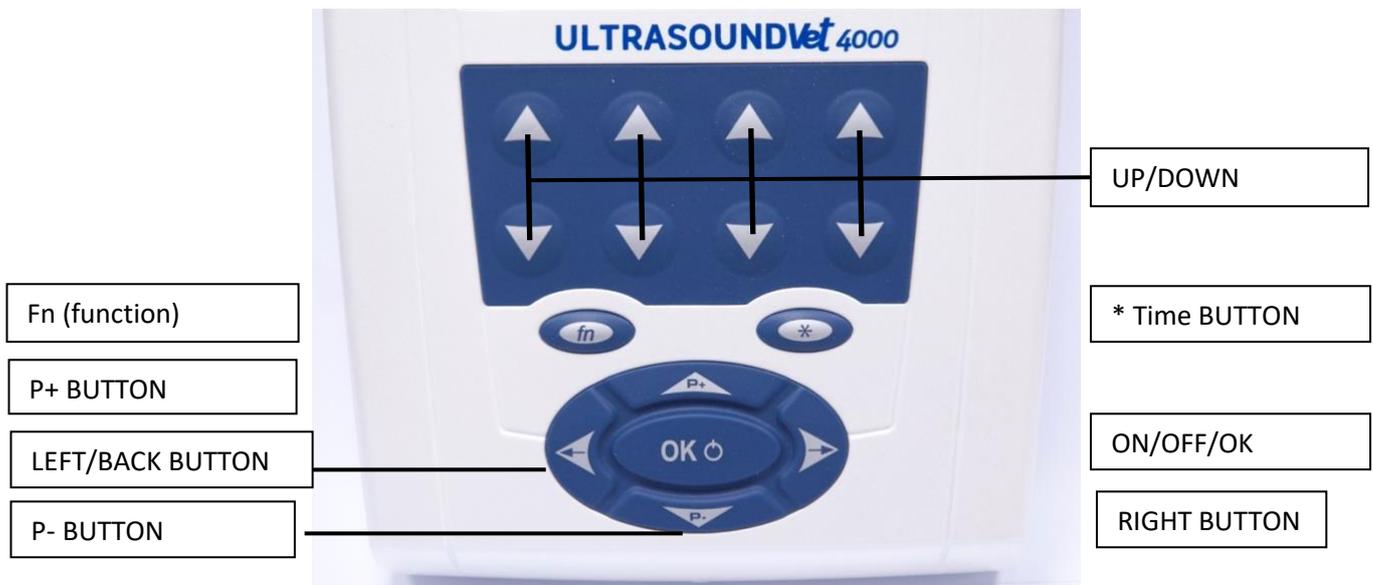


Device

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<p>Input PWR: Dongguan Shilong Fuhua Electronic Co Model: UES6581-180333SPA PRI: 100-240V~, 50-60Hz 1.5A PIN 1,3: + V SEC: 18Vdc 3.33Amax PIN 2,4: GND Acoustic Working Frequency: 1MHz / 3MHz Output: 3W/cm2 +/- 20% Pulse Duration: 100ms - 900ms Waveform: Continued - Pulsed Duty factor: 10% to 100%</p> <p>*MS3191701234</p> <p>SN: MS3191701234 Internal battery: 12V 4000mAh Ni-MH</p>	 MADE IN ITALY
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Panel and keyboard



UP/DOWN buttons: to increase and decrease the power.

ON/OFF/OK button: to switch on, off and to confirm the treatment

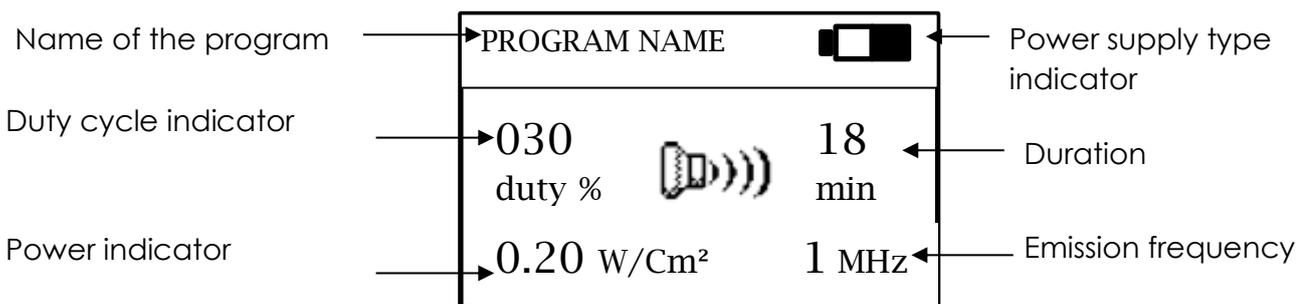
Fn (Function) button: to change the power visualization

* Time Button: To modify the duration of the treatment

LEFT/RIGHT button: Buttons to navigate/ to return to the main menu

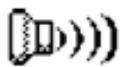
P+/P- Button: Button to select the menu, the area and the program

Display



ALARMS

Meaning

	Correct power emission	The treatment proceeds correctly
	Cable not connected	Ensure that the cable is connected to the correct output.
	Paused device	Press Ok to continue the treatment.
	No contact	Check that gel is present on the hand of the handpiece
	No contact disabled	It indicates that the contact control has been disabled

NOTE:

If the unplugged cable message appears, verify that the device, the cables and the diffuser are intact and correctly used.

If the problem persists, please contact the customer care.

Contact control (no contact)

Hold the "fn" button down for about 3 seconds to disable the contact control (the symbol appears on the top-right of the screen) until the end of the ongoing treatment. To enable the control again, press the "Fn" button for more than 3 seconds.

Overheating alarm (hot)

Red led on + message "Hot" + 3" beep. It indicates a overheating problem of the head or of the entire device. The device is automatically paused and the yellow led turns on.

Overheated head: how to solve the problem

Add gel on the head or immerse the head into water to cool it down. When the red led turns off, it is possible to continue the treatment by pressing OK. Overheated device: how to solve the problem. Check that the internal fan has automatically turned on and do not restart the program until the red led has turned off. If the red led has turned off, press OK to restart the treatment.

- If, after trying both solutions, the red led has not turned off, switch the device off and wait a few minutes. Turn the device on.

Is the red led still on?

NO. The problem is solved. Use the device as usual.

YES. Contact the customer care.



Luminous signals



On/off indicator

PAUSE indicator (during the treatment)

General error indicator. If the led turns on, check the connections between the cables and the electrodes. If the led is still on, contact the service centers.



Power level indicator



Compulsory behavior

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

The manufacturer declines all responsibility with reference to a different use from what 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 package, the cable or the connector of the power supply show signs of wear or damage, replace it instantly.

The device should be connected to the mains by its power supply. Before starting the treatment, make sure that the power system specifications comply with the directives in force in your country. Make sure that the power supply will be easily unplugged.

Warnings before the use

Do not use the device with other electronic devices simultaneously, especially if they maintain vital functions. Read the enclosed tables to operate the device correctly. 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 carefully this manual.

The device can be connected only to the Globus diffuser, which is included in the package, and used exclusively according to the indicated therapeutic modes.

- 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:

- 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 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.

- Shutdown right after turning on indicates that the battery is low. Batteries have to be recharged as indicated in "HOW TO RECHARGE THE BATTERIES" (if UltrasoundVet 4000 is connected to the battery pack, which can be purchased separately).

Warnings during the use

UltrasoundVet 4000 is intended for continuous use.

While using UltrasoundVet 4000, please comply with the following indications:

- in the case of damaged cables, they must be replaced with original parts and not used anymore.

- the device must be kept out of the reach of pets that may damage it and contaminate it with parasites;

- the cables, the solenoids and the power supply must never be wound up around the neck, since this may lead to strangulation and suffocation.

- mobile and fixed radio communication devices may affect the functioning of the device: see the tables attached to this manual.

Side effects and contraindications

Possible side effects

Skin irritation may occur in subjects with high skin sensitive.

In case of allergic reaction to the electrode gel, suspend the treatment and contact a specialist.

Contraindications

Do not use ultrasounds:

- on patients affected by neoplasias, because ultrasounds may contribute to spreading cancer cells;
- on hematomas;
- on thrombophlebitis, because ultrasounds may lead to the creation of emboli;
- on areas suffering from acute infection, because ultrasounds may disseminate the infection;
- on areas under radiations, since radiotherapy has an adverse effect on tissues. Await 6 months from the end of radiotherapy before starting Ultrasound therapy.
- on osteoporosis, because ultrasounds may contribute to decalcification
- on bone growth areas, while growing.
- on the ocular and periorcular areas
- on pregnant patients;
- near glands and heart.
- near areas containing osteosynthesis implants or prostheses, since ultrasounds may cause heat gain.

MAINTENANCE AND CLEANING

Maintenance and cleaning of the device

- In case of real or alleged malfunctioning, do not tamper with the device and do not try to repair it by yourself.

Do not intervene on 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 environment and in an open space (not wrapped in any material).

- Clean the device and its accessories only by using disinfectant with sodium hypochlorite or quaternary ammonium salt (percentage: 0.2-0.3%) diluted with distilled water. 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.

- It is recommended to clean/disinfect the parts after every use, unless otherwise indicated.

After cleaning and/or disinfecting the head of the device and after each treatment, ensure that the head has no cracks or fissures whereby the conductive liquid may leak.

If the treatment head presents cracks or fissures, replace it immediately.

Handle the treatment head with due care. Inappropriate handling may modify the performance of the device.

The maintenance of the device should be made every 24 months, contact the manufacturer for information about the maintenance process.

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.

INSTRUCTIONS FOR USE

Automatic calibration of the handpieces

After every start-up, the device automatically calibrates the head, which must be always kept clean and used in an open space.

Turning on/off

Connect the device to the electricity mains.

To turn on or off, press and hold the On/Off (OK) button until the acoustic signal is heard.

The animation will appear.

Program selection

Press "P+" or "P-" to select the programs. Press OK to confirm your choice.

Depending on the model, the following areas are displayed:

- CAT (1Mhz)
- DOG (3Mhz – 1Mhz)
- HORSE (3Mhz – 1Mhz)

Step 1 – Area selection:

Press P+ and P- on the joypad to move the cursor on the area to be selected. Press "Ok" to confirm.

Step 2 – Program selection

Use P+ and P- to select the program. Press OK to confirm.

How to Execute and start a program

After selecting the program, the following parameters will be displayed: the name of the program, the symbol of mains supply (or the battery charge, if not connected to the mains), the total time, the duty cycle %, the frequency value of the head and the value of emitted power .

Press "Ok" to start the program and the Up/Down button to regulate the output power (Watt).

How to pause the program

Press OK to pause the program and to reset the intensity. Time stops. Press OK again to go back to program execution. During the pause the message PAUSE will appear on the screen.

How to stop the program

To stop the program in advance, when necessary, hold OK down until a continuous beep is heard.

A message invites you to release the OK button to shut the device down.

Phase time settings

To activate the phase time modification press the * button and use the P+ o P- buttons. After the regulation, press again the * button.

How to increase and decrease power

Press the UP/DOWN power buttons to set the power.

Modify the visualization of the power measurement unit

The device permits to visualize the power value emitted in two modalities:

1 - Watt

2 - Watt/cm²

Press Fn to change the visualization while the program is running.

Function fn.

Creating a new program

UltrasoundVet 4000 versions permits the creation and storage of 30 programs. From the main menu, press "P+" and "P-" to select "New programs". After selecting the menu, press OK to confirm.

You will see a screen where program parameters can be set.



Press P+ or P- to move the cursor on the parameter you want to edit. Press UP/DOWN Increase/Decrease Power to set the new value.

The following parameters can be edited:

- Frequency
- Emitted power
- Treatment duration
- Duty cycle.

It is possible to create and save up to 30 new programs.

How to insert the program's name

Press LEFT/RIGHT to select the space where the single letter/number will be typed. Select the letter/number using the UP/DOWN Increase/Decrease buttons. After selecting the letter/number, press LEFT/RIGHT to confirm. Repeat the whole process to insert the following letters.

After setting the name, confirm with OK. Using the left button, it is possible to return to the starting menu.

How to delete a program

Pressing the fn button, it is possible to delete definitely an already created program.

Setup

When selecting Settings, it is possible to access the following menus:

- Acoustic signals
- Auto shut-off timer
- Contrast
- Language

Acoustic signals



If the acoustic signals function is on (ON) the device emits a tone while pressing the buttons.

It is possible to select one of the two modes by pressing P+ or P-. Press OK to confirm your selection.

Automatic shutdown



It allows to set the time after which the machine, if not used, switches automatically off. It is possible to select a value between 1 and 20 minutes.

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

Contrast



APPLICATION METHOD

Specific applications

The therapeutic effects of ultrasounds are partly induced by temperature increase. Ultrasounds main effects are analgesic, trophic and fibrolytic.

a) Analgesic

The analgesic effect is induced by heat and probably by the direct action of ultrasounds on sensitive nerve endings too.

b) Fibrolytic

The oscillations of tissue particles produced by ultrasounds lead to the disintegration of the collagen fibers of the fibrous tissues.

c) Trophic

Vasodilation, induced by temperature increase, facilitates the removal of catabolites and supplies the tissues with nutritive substances and oxygen; thus, ultrasounds improve tissue trophism, facilitate the repair of the damaged tissues and accelerate the resolution of the inflammatory processes.

Ultrasound action mechanism

Mechanical effects: the mechanical action is induced by the particle movement in the tissues crossed by the ultrasonic wave.

Although the movement of the single particles is small, the pressure variations that it produces are quite significant and generate important mechanical effects on tissues.

The mechanical modifications induced by the device determine:

a) the acceleration of the processes of diffusion through cellular membranes.

b) Scission of complex molecules (proteins, polysaccharides., etc).

c) a tissue micromassage

Thermal effects: the passage of ultrasounds through "soft" tissues leads to temperature increase thanks to:

- the absorption linked to viscosity,

- the absorption induced by thermal conductivity and chemical absorption.

Ultrasounds produce heat through vibrations, the collision and the friction of the cellular and intercellular structures composing the tissues, crossed by sound waves. Temperature increase generates an increase of the cellular metabolism and vasodilation, as secondary effects,

Chemical effects: The considerable acceleration forces acting on the tissue particles during the ultrasound wave lead to the modification of local pH, of membrane permeability and molecular changes.

Ultrasound therapy can be performed in two different methods: direct contact, with mobile head, and immersion.

Direct contact mode

Direct contact mode consists of applying the head directly on the skin, which has to be rubbed previously with a conductive gel. On one hand, the gel facilitates the transmission and the adherence between the head and the skin and, on the other, it eliminates the air between the skin and the transducer head, which may reflect and hamper the passage of the ultrasound wave.

The dynamic technique is the most used in ultrasound therapy. It consists of moving the head on the treatment field slowly and softly, in circular or spiral movements. The head has to be held perpendicular to the treatment field and has not to be inclined during the treatment. Moreover, the contact with the underlying tissue has always to be kept, to avoid overheating the head. When using the 4.2-cm head, the treatment field has to be smaller than 9-13-cm (that is 2-3 times the size of the head). If the treatment field is bigger, it has to be divided in smaller sections to be treated singularly. The continuous movement of the head during the treatment contributes to preventing the harmful effects of ultrasounds and distributes ultrasounds in the tissues steadily.

Immersion method

It is particularly suited when the treatment field is so small or irregular, or so aching that a direct contact with skin is impossible. The treatment field has to be immersed in a contained full of water with the emitting head, which has to be 2-3 cm far from skin, to avoid the dispersion of the ultrasound beam and lower therapeutic efficiency. Both water and the have to be clean.

Water temperature has to be about 37°. A lower temperature leads to a reduction of skin heat and a consequent reduction of the therapeutic effect.

The head can be moved in concentric circles, by holding the head surface parallel to the skin surface, to reduce refraction. Tap water is not suited for Ultrasound therapy, since it contain gas bubbles, which dissociate from water, gathering on the surface of the head and of patient's skin and reflecting the ultrasound beam. However, if using tap water, ensure to frequently remove the gas bubbles from the surface and to clean the emitting area of the head at the end of the treatment.

In presence of gas bubbles, use a higher dosage, since the ultrasound beam is more attenuated than in direct contact. In the absence of gas bubbles, use the same dosage as in direct contact.

Recommended intensity

The intensity of the device has been set to 0.0 W/cm². However, it is possible to reach a different maximum power according to each protocol. The intensity indicated in the present handbook is strongly suggested for this line of products and used in most protocols. The veterinarian is free to vary the power according to individual cases.

General therapeutic advice

Before using UltraVet 4000, it is fundamental to know patient's anamnesis, its drug list and to have a reasonably accurate diagnosis. Moreover, it is advisable to monitor patient's response during the therapy and customize its treatment consequently . If no significant changes can be observed during 3, 4 consecutive days, it is advisable to reconsider the treatment parameters or, possibly, the diagnosis.

Do not use Ultrasound therapy on sedated patients, since their feedback is necessary to adapt the treatment parameters to individual needs.

Patient preparation

Clipping the fur on the treatment field before starting Ultrasound therapy is advisable, even if the patient's fur is really short (e.g. Greyhound, Doberman or German Dachshund). Eventually, clean the skin with a non-irritant, disinfectant solution. Before starting the therapy, apply a considerable amount of gel on the treatment field. Furthermore, ensure that a layer of gel is always between the head and the skin during the treatment.

Treatment variables

Tissue heating varies according to frequency, intensity, treatment duration, the treatment field and tissue characteristics.

Frequency (MHz) determines the depth of penetration. As frequency increases, the depth of penetration decreases. 1 MHz frequency operates at 2-5 cm, whereas 3 MHz frequency operates at 0.5-2 cm. If the treatment field includes bone protrusions, use low frequencies to avoid overheating the periosteum.

The **intensity** required to increase the tissue temperature to 40-42°C vary from 1 to 2 W/cm², in continuous mode for 5-10 minutes. In the presence of bone protrusions or a low quantity of small tissue, intensity has to be reduced and frequency increased.

Several therapists have observed that patients may complain or feel discomfort during the treatment. Any manifestation of discomfort of the animal has to be considered as pain. Therefore, the therapist should reduce treatment intensity or to end the session.

The **treatment field** has to be 2-3 times as large as the emitting head. The increase of the treatment field reduces the thermal effect of the treated tissues.

Treatment frequency

It is advisable to perform the treatment once every two or three days. Alternatively, treatments can be performed on a daily basis during ten consecutive days.

Indications

- Osteoarthritis
- Acute tendinitis
- Chronic tendinitis
- Muscle contracture
- Muscle sprain
- Scar adhesions
- Bursitis

Program list

The programs are divided into dog, cat and horse area. For all the programs the library is divided into 1MHz and 3 MHz frequency (except for the cat, which has only 3 MHz programs).

The following programs are included in the device:

Name of the program	Recommended Power	Dog	Cat	Horse
CHRONIC OSTEOARTHRITIS	1 W/cm ²	X	X	X
REACUTIZED OSTEOARTHRITIS	0.9 W/cm ²	X	X	X
SUPERFICIAL TENDINITIS PH. 1	0.7 W/cm ²	X		X
SUPERFICIAL TENDINITIS PH. 2	0.8 W/cm ²	X		X
DEEP TENDINITIS PH. 1	0.7 W/cm ²	X		X
DEEP TENDINITIS PH. 2	0.8 W/cm ²	X		X
BURSITIS	0.5 W/cm ²	X		X
SCAR ADHESIONS	0.5 W/cm ²	X	X	X
MUSCLE CONTRACTURES	1 W/cm ²	X	X	X

WARRANTY CONDITIONS

The device is guaranteed to the first purchaser for 24 months from the purchase date against material or manufacturing faults (12 months if the device is used for professional purposes), provided that it is used properly and maintained under normal operating conditions.

Warranty coverage is limited in the following cases:

- six (6) months for standard equipment accessories subject to wear, e.g. batteries,

power supplies, handpieces, cables.

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

1. Products have to be sent for repairs by and at the expenses of the Customer in their original packages and with their full original equipment.
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 warranty expiry date 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, misuse of the product, use of non-original external power supply or charger, accidental events, alteration, replacement/detachment of warranty seals and/or tampering with the product. Moreover, the warranty does not cover damages caused during transportation if unsuitable packages are used (see point 1).
6. The warranty does not cover the inability to use the product, other incidental or consequent costs or other expenses incurred by the purchaser.

N.B. Before sending the device back for repairs, we suggest reading carefully the user manual and consulting the Globus website.

If you have to return the product for repair, please contact your dealer or the Globus customer service.

The manufacturer reserves the right to make all the necessary modifications, at any time and without prior notice, in order to improve the aspect and the quality of the product.



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