





Since 1983, the year of its foundation, **ASA** has stood out for the variety of application fields of its devices, ranging from physiotherapy to rehabilitation, from sports medicine to veterinary medicine, mainly in muscle and joint pain management.

ASAveterinary was born from ASA's decades of experience, with the aim of applying the proven results of the MLS® Laser Therapy technique to the field of veterinary medicine.

> Authorised by the US FDA, patented in Italy and in the USA, MLS® Laser Therapy has become a technique used by an ever-increasing number of Veterinarians on a daily basis, thanks to the excellent and quick results achieved in improving the quality of life both of the animals and of their owners.



THE HISTORY

2003 was a particularly significant year for ASA, which launched the MLS® Laser Therapy (Multiwave Locked System) in the human field, marking a turning point in the treatment of painful diseases through the control and modulation of the emission, which allow distributing the energy homogeneously and obtaining evident therapeutic results.

The coordinated and synchronised action of multiple laser emissions with different wavelengths - pulsed and continuous - allows to penetrate deep into the tissues, facilitating the activation of the photoreceptors and, at the same time, involving a large volume of tissue, for a deep and effective action.

Applied in the veterinary field since 2009, MLS® Laser Therapy goes beyond the limits of traditional laser therapy by enhancing the anti-inflammatory, anti-edema and analgesic effects and ensuring fast and effective treatments right from the first sessions, as well as long-lasting results.



MLS® INNOVATION & RESEARCH

A further distinctive feature of MLS® Laser Therapy is the high level of safety of its application, modulated through energy dosages, which are the result of clinical experience gained through years of experience in the field, as well as its global approach to the therapeutic universe promoted by the scientific research by ASAcampus.

The scientific research of **ASAcampus** is a distinctive element of ASA, which allows to carry out *in vitro* and *in vivo* studies, up to clinical validation. Many projects have been carried out in collaboration with centres of excellence and end users all over the world and the dissemination of the results accounts for **over 170 publications** in scientific journals.

M-VET was born from the proven effectiveness of applying the therapeutic principles of the MLS® pulse to the world of veterinary therapies. M-VET inherits MLS® pulse wavelengths, the characteristic synchronised modulation of continuous and pulsed emissions, the scientific evidence of its mechanisms of action, as well as the safety of a treatment which is established worldwide.

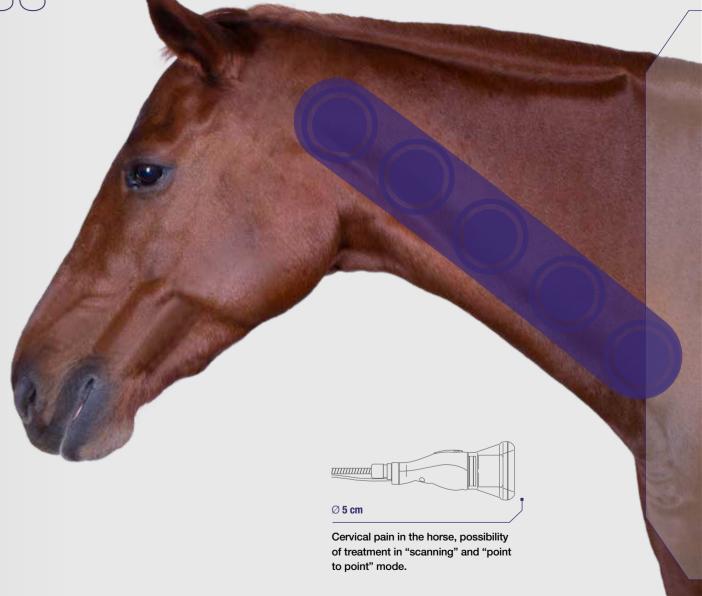


EFFECTIVENESS IN ANIMAL HEALTH

M-VET collects the scientific and technological know-how of over thirty years of ASA Research and Development in a **new generation** of therapeutic devices branded ASAveterinary, entirely dedicated to animal health.

The benefits of the MLS® synchronised impulse are now enhanced through an optical fibre technology, which allows conveying higher intensity energy packets inside the tissues, in total safety.

The experience gained with Mphi Vet and Mphi Vet Orange has allowed enhancing the pulse, favouring the 905nm pulsed component: the high and instantaneous peak power, the shortness of the pulses and a controlled average power thus guarantee the effectiveness of the treatment and the execution of the therapy, according to the principles of patient safety and protection.

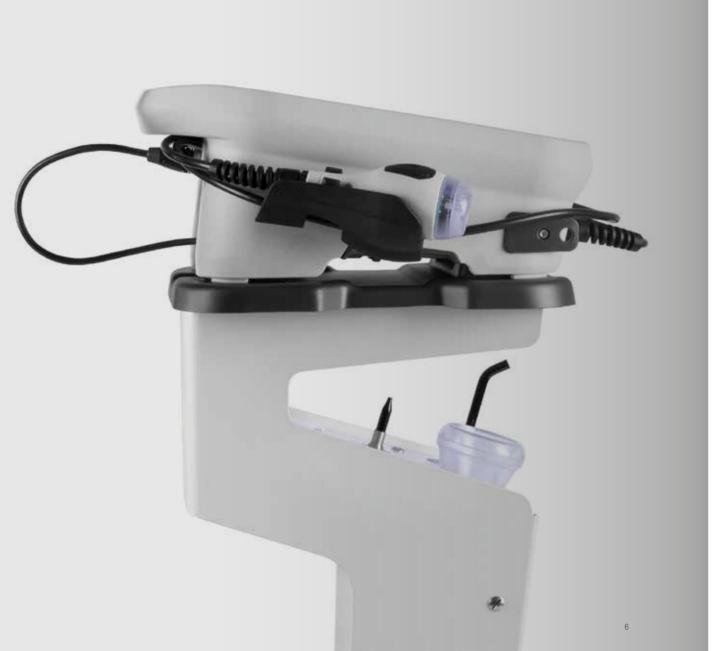


MLS® INNOVATION & RESEARCH

A further distinctive feature of MLS® Laser Therapy is the high level of safety of its application, modulated through energy dosages, which are the result of clinical experience gained through years of experience in the field, as well as its global approach to the therapeutic universe promoted by the scientific research by ASAcampus.

The scientific research of ASAcampus is a distinctive element of ASA, which allows to carry out in vitro and in vivo studies, up to clinical validation. Many projects have been carried out in collaboration with centres of excellence and end users all over the world and the dissemination of the results accounts for over 170 publications in scientific journals.

M-VET was born from the proven effectiveness of applying the therapeutic principles of the MLS® pulse to the world of veterinary therapies. M-VET inherits MLS® pulse wavelengths, the characteristic synchronised modulation of continuous and pulsed emissions, the scientific evidence of its mechanisms of action, as well as the safety of a treatment which is established worldwide.

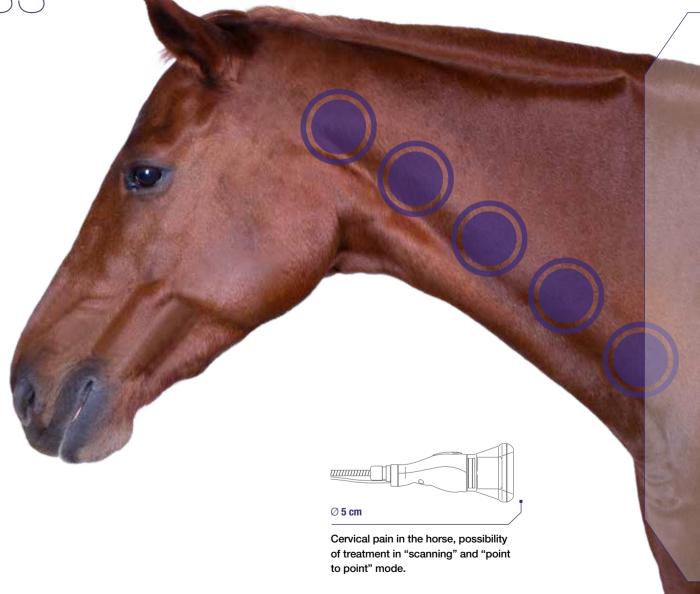


EFFECTIVENESS IN ANIMAL HEALTH

M-VET collects the scientific and technological know-how of over thirty years of ASA Research and Development in a **new generation** of therapeutic devices branded ASAveterinary, entirely dedicated to animal health.

The benefits of the MLS® synchronised impulse are now enhanced through an optical fibre technology, which allows conveying higher intensity energy packets inside the tissues, in total safety.

The experience gained with Mphi Vet and Mphi Vet Orange has allowed enhancing the pulse, favouring the 905nm pulsed component: the high and instantaneous peak power, the shortness of the pulses and a controlled average power thus guarantee the effectiveness of the treatment and the execution of the therapy, according to the principles of patient safety and protection.



M-VET | |SYNCHRONY | |IN ACTION

The special features of the **M-VET** emission allow to intervene not only on pain but also on its causes, as part of a path with scientifically proven, fast and long-lasting results.

Anti-inflammatory action: M-VET treatment exerts a significant inhibitory action on the production of pro-inflammatory molecules.

Action on pain and its causes: M-VET treatment produces short and long-term analgesic effects, allowing a significant and progressive function recovery, since its action is not limited to the painful symptomatology but acts simultaneously on the causes which determine it.

Tissue repair action: M-VET treatment improves the quality of the newly formed tissue and accelerates healing times.









▲ Cats



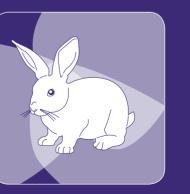
▲ Horses



▲ Birds



▲ Reptiles



▲ Exotic Mammals



► MUSCULOSKELETAL SYSTEM

Muscle & Joint pain, Tendinitis, Contracture, Trigger Point, etc.

- ▶ Action: effective anti-inflammatory action through the reduction of inflammatory mediators.
- ▶ Outcome: significant decrease in pain and functional improvement.

► DERMATOLOGY

Tissue lesions, Alopecia, Foot-pad dermatitis, etc.

- ► Action: stimulation of tissue repair processes.
- ➤ Outcome: prevention of fibrotic scars formation, improvement in the quality of the repair tissue, acceleration of healing times.

► ORAL PATHOLOGIES

Gingivitis-stomatitis, Fistulas of the oral cavity, etc.

- ► Action: analgesic and anti-inflammatory action; stimulation of tissue repair.
- ▶ Outcome: rapid improvement of symptoms and possibility of association with other treatments.

► LASER PUNCTURE

Frequencies and Pathologies.

- ▶ **Action**: stimulation of acupuncture points to rebalance the flow of energy.
- Outcome: painless, quick and safe in case of animal's sudden movement during treatment.



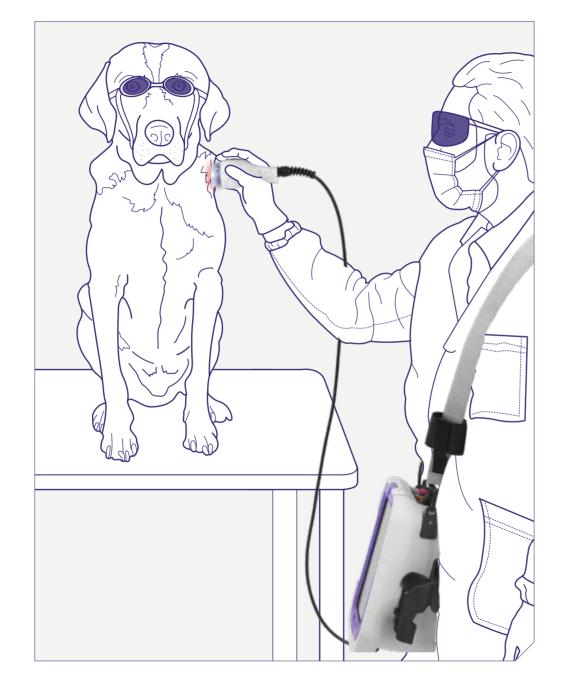


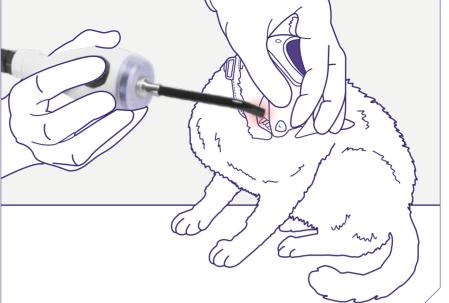
EFFECTIVENESS 8 SIMPLICITY

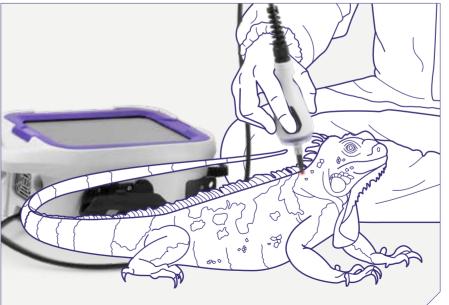
With M-VET, ASAveterinary consolidates a leadership position in the field of veterinary therapies by virtue of unprecedented characteristics in terms of practicality, ease of use and state-of-the-art technology.

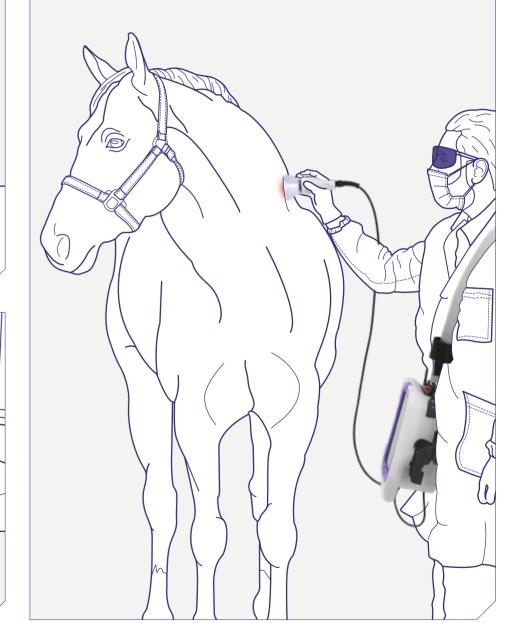
The aspects of increased versatility include the multiple modes of use of the device - which can be used positioned on a trolley, on the floor or worn with its shoulder strap – as well as the immediate interchangeability and recognition of the various lenses within the software with the consequent automatic adaptation of the predefined parameters.

The fact that it is **easy to transport** and very **robust** enables a rapid and intensive use. The presence of a single handpiece with different lenses and an intuitive and **user-friendly** state-of-the-art technology, guarantee a unique experience in terms of simplicity and performances.

















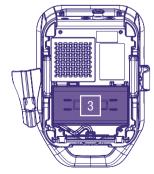


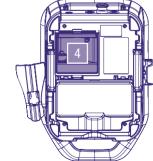
(i)

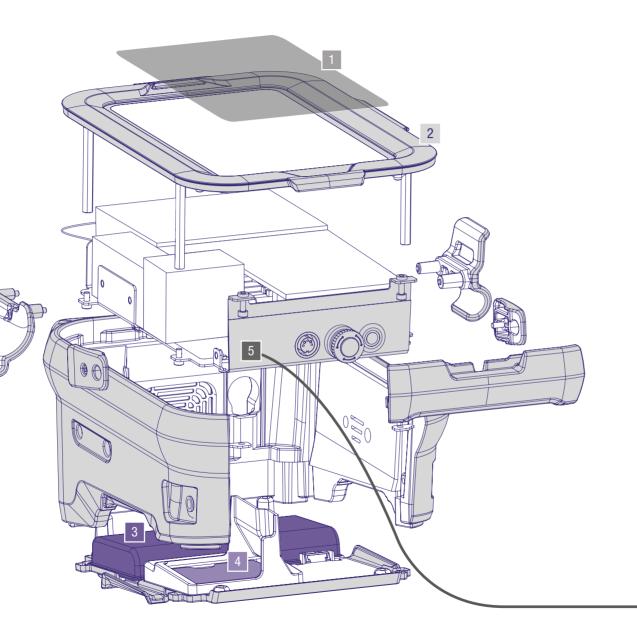


M-VET stands out for the elegance of the design and the ease of use, in a device conceived to combine the quality and durability of the materials with the necessary ease of handling and freedom of movement in all contexts, both in the clinic and outdoors.

The attention to the single detail translates into an unprecedented versatility of application: thanks to the flexibility and resistance of the optical fibre, to the ergonomic handpiece and to the immediate interchangeability of the lenses, M-VET ensures **speed and efficacy** for a complete and homogeneous treatment.







10.1" TOUCH SCREEN

The high brightness guarantees excellent visibility in both clinical and outdoor environments.



The external surface is made of soft material, pleasant to the touch, while ensuring high resistance to impact and possible scratches and bites by patients.

BATTERY COMPARTMENT



Possibility of immediate access for use without connection to the power supply.

MAINTENANCE COMPARTMENT



It guarantees protection of the internal components and ease of intervention.

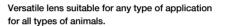
OPTICAL FIBRE



Flexible, easy to handle and robust, the fibre is protected by a double sheath to ensure an easy and safe treatment experience.

TERMINALS





Lens - Ø 5 cm



Homogeneous irradiation of large volumes of tissue in a short time. Ideal for treating large animals.

Lens - Ø 4 mm



Conical light guide: designed for laser puncture treatment in a rapid, targeted and painless manner.

Lens - Ø 8 mm



Curved light guide: ideal for the treatment of oral pathologies or for small animals.









M-VET TECHNOLOGY



TECHNICAL FEATURES

- ▶ Laser source with impulse in MLS® mode up to 3.6W
- ▶ Peak power outside handpiece: 270W
- MLS® modulation in CPW and FPW (synchronised emission of Continuous Pulsed Wave and Frequenced Pulsed Wave)
- MLS® pulse modulation frequency from 1 to 2000 Hz in 1Hz steps
- ▶ Power level from 1% to 100%
- Lens with target area highlighted by high efficiency red light LEDs
- Automatic recognition of the lens
- ▶ 10.1" high brightness LCD touchscreen display
- ► Intelligent back-up system
- Pre-set programs for pets, horses, reptiles, birds and exotic mammals
- Programs section for laser puncture
- Programs section for diseases of the oral cavity
- Viewing treatment images
- Possibility of customising each treatment parameter
- Reserved area to save personal protocols
- ► Treatment time from 1" to 29'59" in steps of 1"
- Automatic calculation of the energy emitted according to the parameters set
- Treatment log
- Usage statistics

POWER SUPPLY, DIMENSIONS AND WEIGHT

- Lithium-ion battery
- ▶ 18Vdc 50VA external power supply unit
- ▶ 35 x 30 x 15 cm; 4 kg (max)





ACCESSORIES PROVIDED

- ▶ 4 lenses: Ø 4 mm, Ø 8 mm, Ø 2 cm, Ø 5 cm
- N° 2 Laser Safety Goggles
- Unit carrying case
- Shoulder strap for portable use
- Lens case attachable to the shoulder strap

OPTIONAL ACCESSORIES

- ► Trolley with storage compartment, 4 swivel wheels and self-locking system
- Battery kit consisting of: exclusive charger, battery, connection cable

ALARMS AND SAFETY EQUIPMENT

- Laser emission warning light
- Interlock
- Acoustic signal adjustable by the operator
- Date and time
- Password to operate the device
- Language option
- Ready to be connected to the remote Laser emission signalling device









M-VET | |SOFTWARE

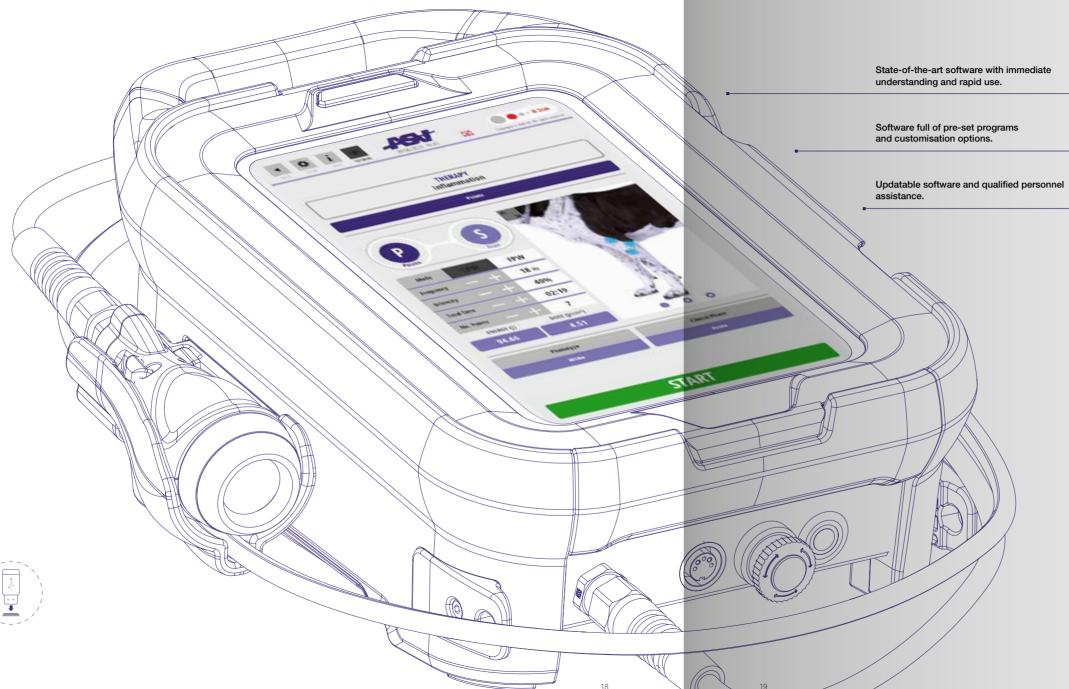
The innovation of **M-VET** extends to the user interface, equipped with a **10.1**" **high brightness touch screen** and a latest generation software for an unprecedented user experience.

Easily upgradeable via USB port, thanks to its flexibility it fits to the use experience of the different users and includes predefined protocols dedicated to the care of dogs, cats, horses and exotic animals which are implemented according to the selected anatomic area, the pathology of interest, the patient's characteristics and the clinical phase.

In order to ensure **maximum safety** and high levels of performance, the system is able to generate dynamic QR codes for sending data to the ASA Service for the check-up of the device.









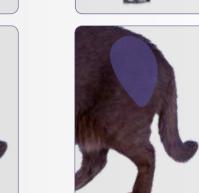




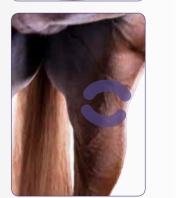


▼ Lens Ø 5 cm: point to point.





▼ Lens Ø 2 cm, Ø 5 cm: scan.







▼ Lens Ø 5 cm: point to point.

▼ Lens Ø 5 cm: point to point.

The innovation of **M-VET** extends to the user interface, equipped with a 10.1" **high brightness touch screen** and a latest generation software for an unprecedented user experience.

Easily upgradeable via USB port, thanks to its flexibility it fits to the use experience of the different users and includes predefined protocols dedicated to the care of dogs, cats, horses and exotic animals which are implemented according to the selected anatomic area, the pathology of interest, the patient's characteristics and the clinical phase.

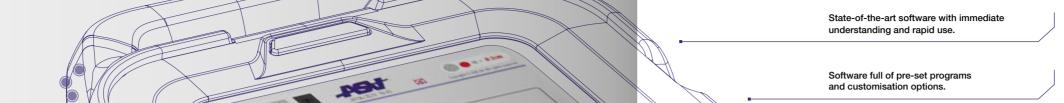
In order to ensure **maximum safety** and high levels of performance, the system is able to generate dynamic QR codes for sending data to the ASA Service for the check-up of the device.



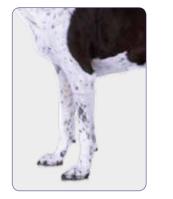




▼ Lens Ø 2 cm: point to point.



Updatable software and qualified personnel assistance.



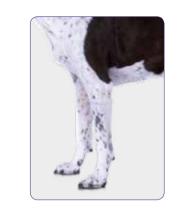














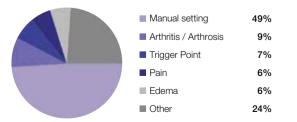




M-VET | |SOFTWARE

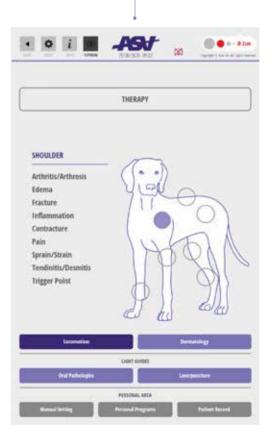
The initial screen allows to select the desired animal species, guiding the user in identifying the most suitable protocol, while a series of illustrations accompanies protocol indications, providing the possibility of customising the area to be treated by drawing it directly on the screen.

The possibility of establishing and saving the programs in the personal area, the complete autonomy of the treatment parameters in the manual area and the possibility of keeping a record of the treatments performed on each patient allow a highly flexible and customisable use in order to provide the most efficient and functional service to the operator and patient.

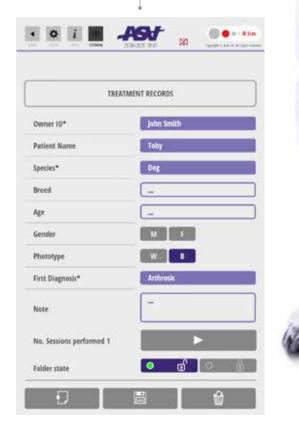


Immediate feedback on the use of the device thanks to the usage statistics.





Ready to use: very rich in predefined protocols divided into corresponding body regions.



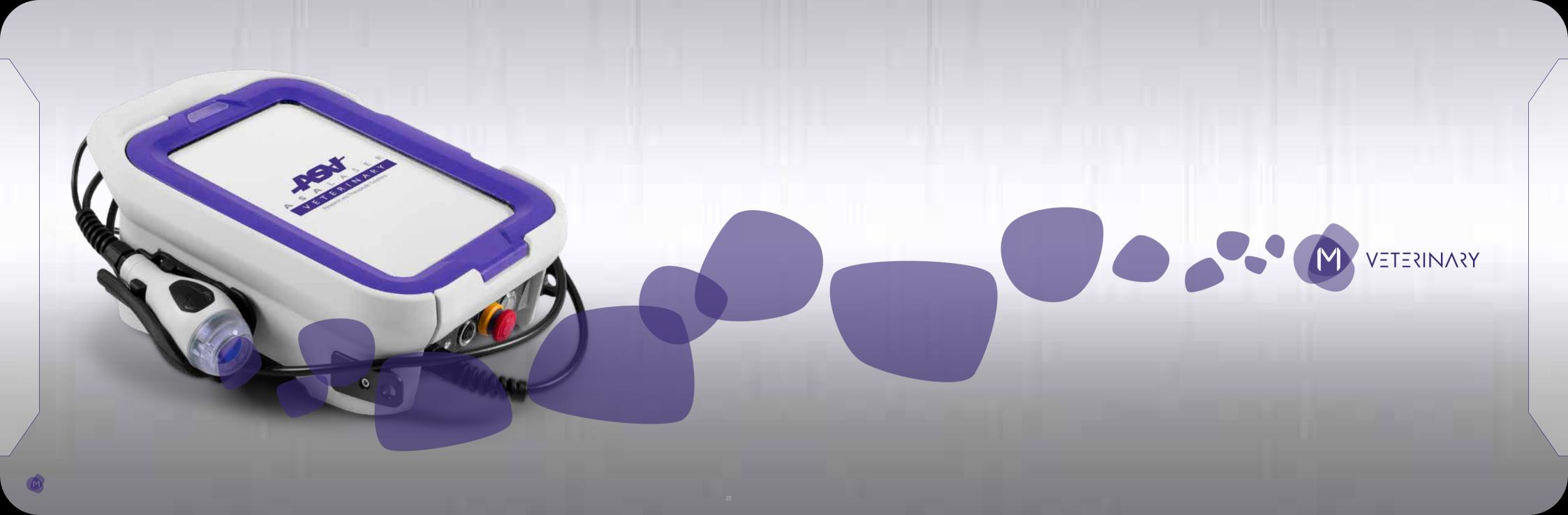
Complete: management of patient data and saved history of the treatments performed always to hand.



Customisable: the personal area allows the creation and saving of free programs, leaving the maximum degree of customisation to the user.











Copyright © 2020 - ASA srI - All rights reserved. Complete or partial copying, printing and distribution of the information present in this document is prohibited, unless written consent from the owner is granted. 10/2020.



Research and Therapeutic Solutions

Corporate Headquarters Registered Office



Via Galileo Galilei, 23 36057 Arcugnano (VI) - Italy

asavet@asalaser.com

asalaser.com asaveterinary.com

T +39 0444 28 92 00 F+39 0444 28 90 80

Research Division / Branch

Joint Laboratory Dipartimento di Scienze Biomediche Sperimentali e Cliniche Università di Firenze

Viale G. Pieraccini, 6 50139 Firenze - Italy asacampus@asalaser.com

FOLLOW US







