Skanlab VET ™

Instructions for use



© Skanlab AS – Norway

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Original instructions

Made in Norway

CE

SKANLAB AS
PB 226
NO-1601 Fredrikstad
Norway

Org.nr. 976079027MVA

Telefon: +47 69 35 20 80
e-mail; info@skanlab.no
www.skanlabvet.no

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CHAPTER 1. GENERAL INFORMATION

Congratulations on your new Skanlab VET ™!

This is an electrostimulation device for use in treating horses/dogs with various types of acute or chronic ailments.

Take the time to read through this Instruction for Use to get to know your new device.

In order to satisfy the high quality and safety requirements of Skanlab AS, each device that leaves production has undergone a quality test.

In the delivery you will find a separate **test certificate** that applies only to this specific device. Please do an extra quality check by checking that the serial number on the certificate corresponds to the serial number of the embossed label on the back of the device. Take care of this certificate. It is a good reference for us if you have any questions regarding the product in the future.

The device should only be used after reading this Instruction for Use!

1.1 Unpacking

In the box received you will find the following:

- 1 Skanlab VET ™
- 1 cable for power supply connection
- 1 Current return-electrode (black flexible rubber electrode) with Ø4mm connector
- 1 current return-electrode steel bar with Ø4mm connector
- 2 rubber bands to secure ground electrode to the animal, 2,5m and 1m
- 1 plastic locking plug for the rubber band
- 1 cable (black) with Ø4 mm connectors to connect the flexible rubber ground electrode or the blank metal ground electrode to the device
- 1 treatment electrode Ø23 mm
- 1 treatment electrode Ø30 mm (connected to treatment probe)
- 1 Silicon pad for use for storage of the electrodes between treatments
- 1 l Skanlab Therapy Cream
- 1 document that is the test certificate (please archive this)
- 1 Instructions for Use (this document)

Optional extras that can be purchased on order:

- Electrode Cream, 1 l or 5 l
- See Chapter 13 “Technical specifications” for ordering replacement parts.

CHAPTER 2 - INTRODUCTION

2.1 General information

Skanlab VET ™ is a medical device intended for the treatment of musculoskeletal problems in animals. The device and treatment method were developed in Norway and was first introduced as Skanlab 25 Bodywave® in 1988 for use in human physiotherapy. The Skanlab NG Pro is a system intended to perform Long-Wave Deep Heat Therapy (LWDHT). Since 1996, several therapists have also used Skanlab 25 Bodywave, and in later years, the Skanlab NG Pro, in treatment of animals.

Skanlab VET ™ bases its operation on capacitive current. A capacitance is a physical-electrical property. The energy is generated in an electric field that occurs in the tissue underneath the treatment electrode. The tissue is a part of the circuit with its own dielectric constant. Due to this, the tissue is a part of the capacitor.

The body consists of several types of tissue that conduct the energy differently, and at different depths. Skanlab has documentation that the heat enters the tissue up to 4 cm depth, and the increased local temperature is maintained up to 40 min [1), 2), 3)]. Hence the term: **Deep heat treatment (Skanlab Deep Heat Therapy)**. The animal feels comfortable warmth during treatment.

Place treatment current return-electrode opposite the treatment site if possible, or other practical and suitable place on the animal, with good contact. Apply Skanlab Therapy Cream to this area also.

The device produces an electrostatic alternating current field (capacitor current) of 500 kHz with a wavelength of 600m. Hence the name “Long Wave Treatment”, as opposed to previously known “short wave treatment”.

In the treatment, the dog/horse is exposed to an electrostatic high frequency alternating current field. A capacitor's capacity is determined by:

- The size of the plate (here; the square area of the treatment electrode)
- The insulation material (here; the nature of the fabric, the electrode surface and the electrode cream).

Only Skanlab Therapy Cream should be used!
After treatment wash off the cream with water and mild soap. Make sure that the animal is not in contact with treatment benches or other metal surfaces during treatment!

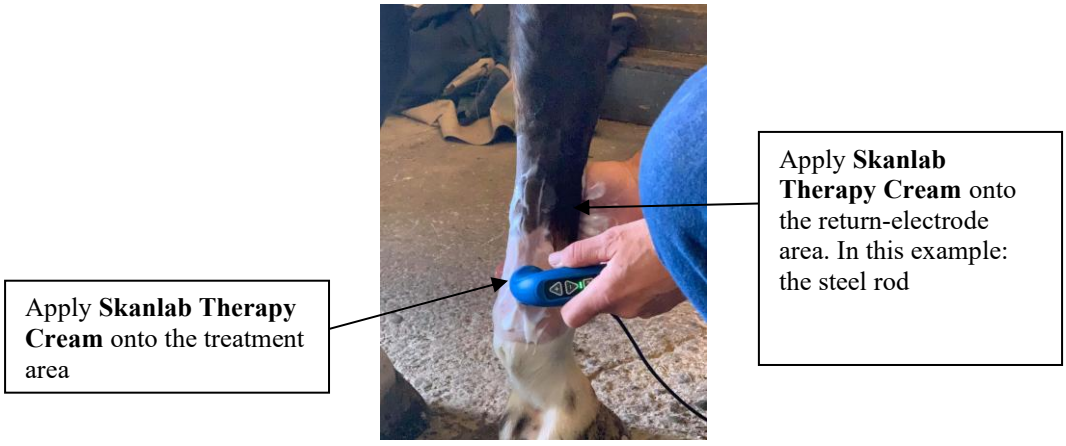
NEVER OVERSTRETCH CABLES DURING TREATMENT!
MOVE THE DEVICE A LITTLE CLOSER!

The treatment electrode shall easily and continuously be moved in circles (3-5 times diameter of electrode – before moving to new area), due to the concentrated energy transfer. NB! Pay attention to the horse's/dog's reactions during treatment. Electrode selection is made depending on the scope of the treatment area and the size of the electrodes, which determines the heat output at the treatment site.

The horse/dog should only feel a nice comfortable warmth under the treatment electrode (handle). You can verify this by touching the treated area with your hand frequently – where you should feel the level of warmth, or you can check heat of the treatment electrode against your own skin through the treatment.

You should use Skanlab VET ™ when you want to:

- Increase the temperature of the tissue
- Increase metabolism
- Increase circulation
- Increase elasticity
- Reduce oedema/swelling
- Faster regeneration
- Reduce pain
- treat preventively to avoid injuries



Skanlab VET ™ should only be used after agreement with the veterinarian/owner of the animal.

Please contact our local representatives (or distributors) who will arrange a product-demonstration, education and practical training using **Skanlab VET ™**.

References:

1) *Prof.dr.med.Kaare Rodahl, S. Mæhlum, H. Frøseth og O. Søvde* - Virkningen av behandling med Skanlab 25 Bodywave på den dype underhudstemperaturen
2) *Prof.dr.med. K. Rodahl, fysioterapeut og spesialist i manuell terapi H. Frøseth, prof.dr.med. S. Mæhlum, J. Meyer og R. Bjørklund* - Virkning av behandling av tennisalbu med Skanlab 25 Bodywave
3) H. *Frøseth, T. Eklund, L.D. Klilwer, T. Guthe, R. Bjørklund og K. Rodahl* - Måling av behandlingseffekt hos pasienter med epicondylitis radialis ("tennisalbu"), behandlet etter kondensator-metoden med Skanlab 25 Bodywave

CHAPTER 3 – CONTRAINDICATIONS

3.1 General information on contraindications

When significant amount of fur is present, cut/shave the horse's / dog's fur pre-treatment. Fur must be thoroughly soaked with water.

3.2 Contraindications

- Horse/dog with pacemaker
- Horse/dog with bleeding gastrointestinal ulcers
- Horse/dog with infusion pump and/or implants with electric lead
- Treatment over localized cancer area / tumor
- Treatment over the heart with ischemic heart disease.
- Allergic reaction to cream / electrode
- Bleeding areas, where the skin has partial or open wounds
- Do not treat during first 2/3 of full pregnancy time of the animal. Last 1/3 - don't treat over the lumbo-sacral area/over uterus/fetus.

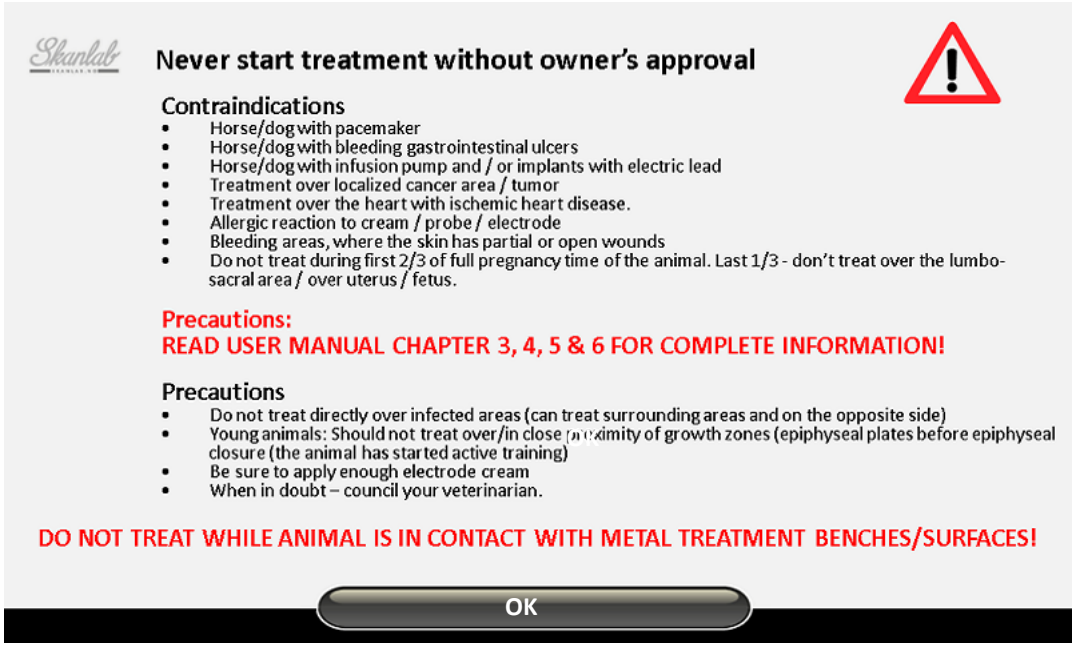
3.3 Precautions

- Do not treat directly over infected areas (can treat surrounding areas and on the opposite side)
- Young animals: Should not treat over/in close to proximity of growth zones (epiphyseal plates before epiphyseal closure (the animal has started active training)
- Be sure to apply enough electrode cream
- When in doubt – council your veterinarian.
- Do not treat while animal is in contact with metal treatment benches/surfaces!

Screenshot of Skanlab VET ™ after startup **(Horse)**:



Screenshot of Skanlab VET ™ after startup **(Dog):**



CHAPTER 4 - SAFETY

4.1 General introduction

It is important to read the instructions carefully before using Skanlab VET ™. Please make sure the instructions are available to all users.

1. Skanlab VET ™ should only be connected to an approved electrical installation, with an earthed plug.

2. Make sure the electrode cables are firmly seated in the connectors on the device itself. Screw the mounting ring of the connector of the treatment handle cable into the connector on the right side of the device. Plug connection line (metal rod or flexible rubber electrode) fully into the connector on the right side of the device.

3. Make sure the current return-electrode cable is fully seated inside the ground electrode itself (metal rod or flexible rubber electrode).

4. If you need to remove the cable from the current return-electrode, or from the treatment probe: First turn off the power to the device and then unplug the plug from the wall.

5. Never pull directly the cables themselves to pull them out of the electrodes or device. Then you can damage the electrical inner wire and the device might not work. Always pull out wires by grasping the contacts themselves and pulling gently.

6. Do not use other electrotherapy / electrical devices at the same time on the horse / dog when treating with Skanlab VET ™. This may cause electrical interference and result in burns to the electrode. It can cause electrical interference and result in burns underneath the electrodes.

7. To prevent electromagnetic interference, we strongly recommend the use of separate main power connection lines for Skanlab VET ™ and other therapeutic devices

8. Older wireless phones should not be used near the machine.

9. Shave or cut fur in the treatment area if needed.

10. Soak thoroughly with lukewarm water in the treatment area, and where the current return- electrode should be placed. Always apply adequate cream to the current return-electrode area, but be more generous in the treatment area. **Use only Skanlab Therapy cream**, as it is designed specifically for this device. Another type of cream can cause lack of effect / cause damage to the horse / dog.

11. Pay close attention to the individual's reaction pattern during treatment and regularly check the temperature. If the animal responds to excessive heat – reduce the strength one step at a time.

12. As a therapist, when you check the level of heat on the treatment electrode on your own skin, you should feel that the electrode only is comfortably warm.

13. **Recommendation:** Use Rubber band together with black plastic plug to secure the current return-electrode to the body/leg of the animal. This will secure optimal contact with the tissue with either the rubber electrode, or the steel rod electrode. Alternatively, attach steel current return-electrode with a thread knot or rubber band to your finger, so it does not slip out of position during treatment. Hold your hand/finger firmly in contact with the animal during the whole treatment.

14. After treatment, wash off the cream with water and mild soap.

15. Do not treat while the animal is in contact with metal treatment benches/surfaces!

We also refer to our treatment videos on horses on YouTube.
These can also be found on our website:
https://www.skanlabvet.no/acadamy

CHAPTER 5 - INSTALLATION OF SKANLAB VET ™

5.1 Location of the Skanlab VET ™

- Place the device on a firm, flat and stable surface
- Do not use the device near a heat source, e.g., heat radiator.
- Avoid direct sunlight, rain, dust accumulation, moisture, mechanical vibration and hard mechanical shock.
- Make sure that water and moisture do not enter the device (if necessary, cover the equipment with a waterproof plastic cover). Always secure airflow for the ventilator fan inside the Skanlab Vet™ (the openings on the sides of the device). Should water still come into the device itself, unplug the device (if connected) and contact Skanlab AS immediately. Do not use!

5.2 Connection

- Main electric power supply must comply with national requirements for approved electrical installations.
- Place the Skanlab VET so that it is easy to reach the ON / OFF switch on the back of the unit
- Before connecting this device to the power supply, check that the voltage and frequency specified on the rating plate on the back of the device matches the intended power supply.

IMPORTANT INFORMATION

Only the manufacturer's approved power cable must be used.

Only the manufacturer's approved electrode cables must be used.

Only the manufacturer's approved parts defined as the return-electrodes and the treatment electrode must be used

Do not treat while animal is in contact with metal treatment benches/surfaces!

NB! Connection of optional equipment not specified by Skanlab AS can endanger the individual and cause the device to malfunction.

5.3 Startup / Self-test

All of the device's functions are automatically checked by a built-in microprocessor when the device is turned on using the on / off switch on the back of the device. Then the device runs a self-test. All the time the device is in use, the actual current at the output is automatically measured and compared to the specified requirement. If a fault in the current is detected, the power is switched off automatically.

- Use the **ON / OFF** switch on the back of the unit
- Immediately after the device is switched on, it automatically performs a self-test



5.4 Turn Off

- Use the main power switch on the back of the device to turn off the device
- Unplug the power cord

5.5 CALIBRATION OF TOUCHSCREEN/DISPLAY

All devices are individually calibrated several times during production and final testing. Due to the transportation of the device, the resistive display may be affected - making the touch screen difficult to operate. The end user (therapist) can easily calibrate the screen to perform as intended. Follow the description below if the touch screen is inaccurate or does not respond.

Option 1 – Try this first
Procedure for calibrating the Skanlab screen from the touchscreen / display:
The calibration of the screen is done by touch point calibration. This may be necessary from time to time if the user experiences that pressing a specific point on the displays does not give the desired response from the display. This option 1 can be used when the accuracy or differences on the touch screen are small. If it is almost impossible to calibrate directly on the touchscreen – go to option 2 – calibration with remote handle.

1. Turn on the device and wait until it enters the main menu

2. Press «i» at the bottom of the main menu screen

3. Press the wrench image at the bottom of the screen

4. You will now see the numbers to enter the code.

5. Enter the code 928 and press «OK»

6. You are now in the calibration tool

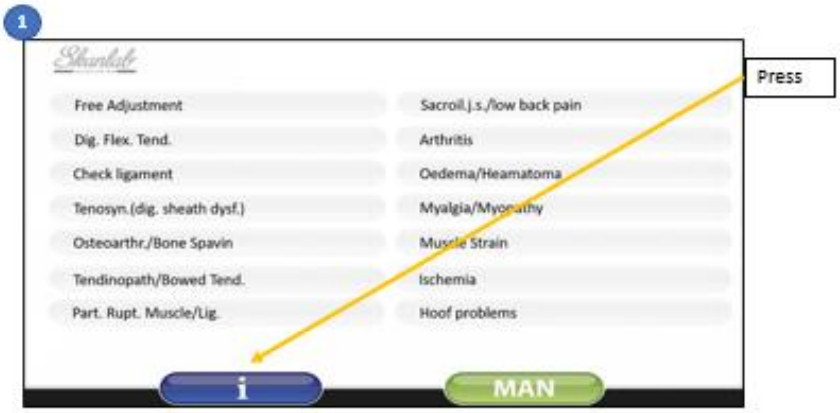
7. Three dots have appeared. The top left one has a ring around it. Place your finger in the center of the circle and press gently until the circle moves to the next point. Then repeat the procedure until all three points have been pressed. In some cases, it may be better to use the patient return electrode (steel rod) instead of your finger. It may be easier to touch the center of the circle.

8. Exit the menu by pressing the arrow on the left of the display.
The display is now calibrated, but the accuracy depends on the accuracy of the calibration procedure.

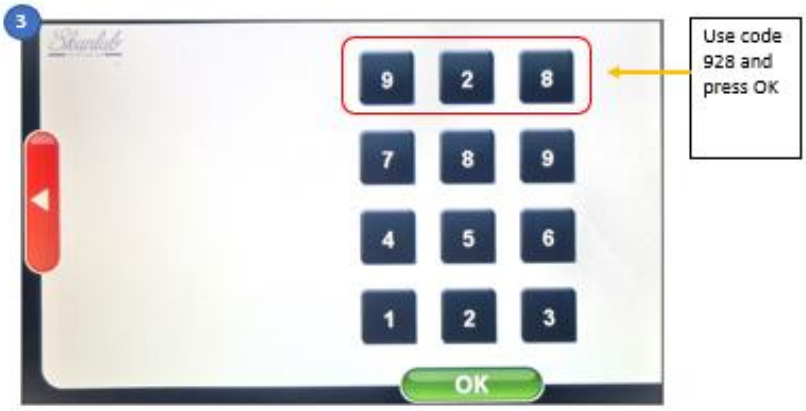
See the pictures below.

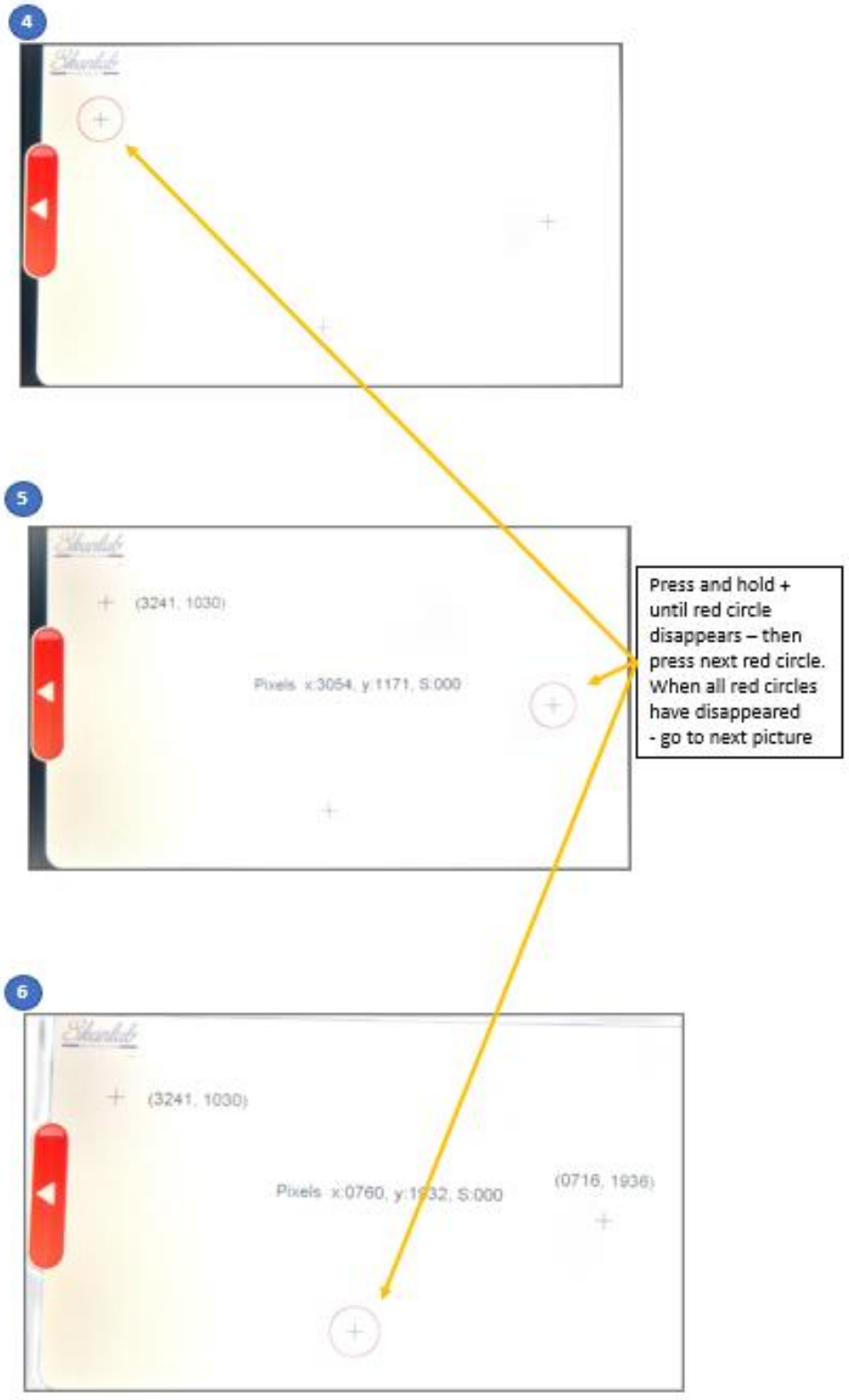
How to calibrate the touch screen

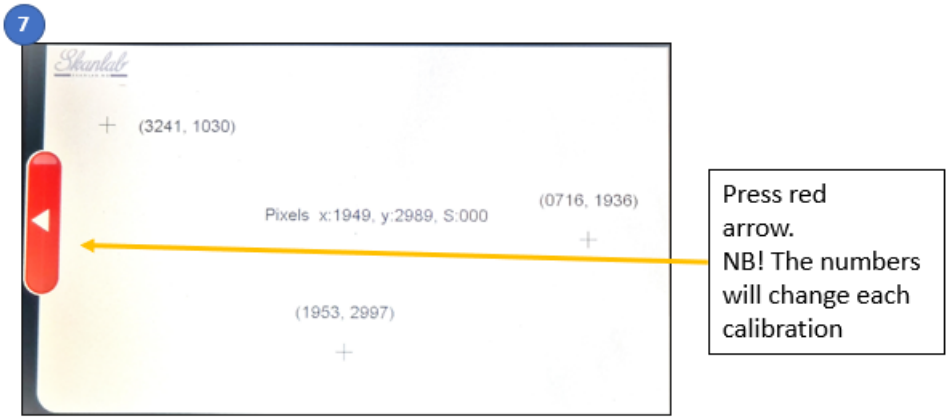
Skanlab VET

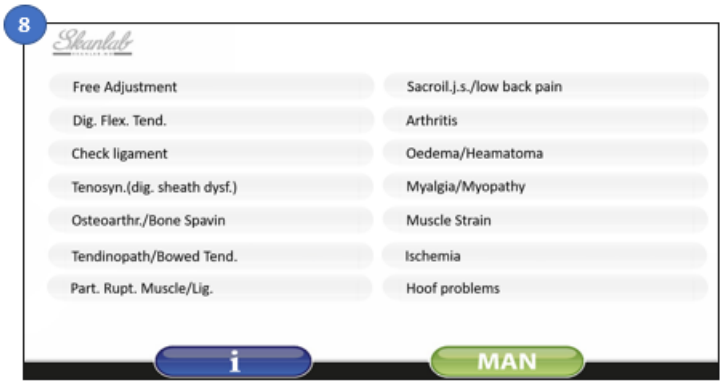







4
5
(3241, 1030)
Pixels: x:3054, y:1171, S:000
Press and hold + until red circle disappears – then press next red circle. When all red circles have disappeared - go to next picture
6
(3241, 1030)
Pixels: x:0760, y:1932, S:000
(0716, 1936)





Option 2 – If you cannot calibrate via the display

Procedure for calibrating the touch screen from the Remote handle:
This option is used if you can't enter the calibration tool from the touch screen. Here you start by using the remote handle to start the calibration tool.

1. Turn on the device and wait until it enters the main menu

2. Press "+ and -" on the remote handle at the same time and wait until some numbers appear at the top of the screen/display. Then release + and -, then press the start/pause button

3. You are now in the calibration menu.

4. Three points have appeared. The top left one has a ring around it. Place your finger in the center of the circle and press gently until the circle moves to the next point. Then repeat the procedure until the circle has disappeared.

5. Exit the menu by pressing the arrow on the left of the display.
The display is now calibrated, but the accuracy depends on the accuracy of the points pressed in the previous step.

CHAPTER 6. IMPORTANT INFORMATION - TIPS AND WARNINGS BEFORE TREATMENT

⚠ **Always check the surface of the treatment electrode before treatment for damage, wounds or scratches. If there is damage or cracks in the special enamel paint, or black dots that cannot be removed, the treatment electrode must be replaced.**

⚠ To avoid the risk of electric shock, this equipment must only be connected to the mains through an earthed socket.

⚠ Before treatment, obtain information from the owner / veterinarian about the animal's general health and screen it against the contraindications / precautions in section 3.0

⚠ No matter what type of treatment, make sure you take a healthy and sensible approach. If you are uncertain, do not start without consulting a veterinarian, owner or distributor / other person with experience of the injury in question.

⚠ **Skanlab VET ™ is only for external treatment of muscles, tissues and connective tissues. It must not be used internally in any body-openings.**

⚠ Avoid direct contact with water (except for what is soaked on the animal).

⚠ Do not rinse the treatment electrode / handle in water. Wipe the electrode with paper and dry with damp cloth / paper

⚠ Avoid contact between the animal with box grids and / or metal treatment benches that come into direct contact with the animal's skin. It can provide undesirable paths for the high frequency electric field.

⚠ Ensure that the insulation on the outside of the treatment probe and return electrode cables is intact and undamaged. Do not use damaged cables or probes.

⚠ During treatment, observe the horse’s / dog’s reaction pattern. Avoid excessive manual pressure with the treatment probe. It will feel uncomfortable for the individual.

⚠ Observe the animal throughout treatment. Do not leave the horse / dog during treatment

⚠ Local skin conditions can be irritated when using the probes, such as mildew / eczema. If this happens, do not treat the area directly.

⚠ After treatment, wash off the cream with water and mild soap.

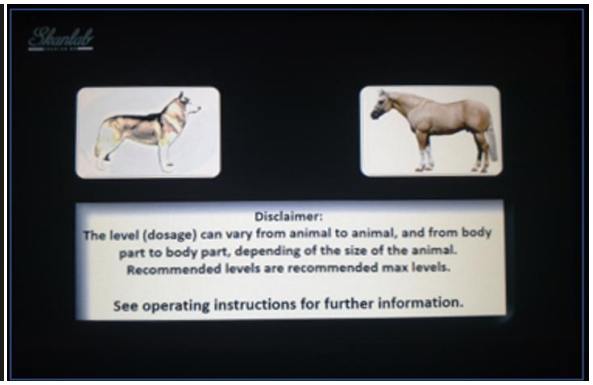
CHAPTER 7. SKANLAB VET ™ – OVERVIEW IMAGES

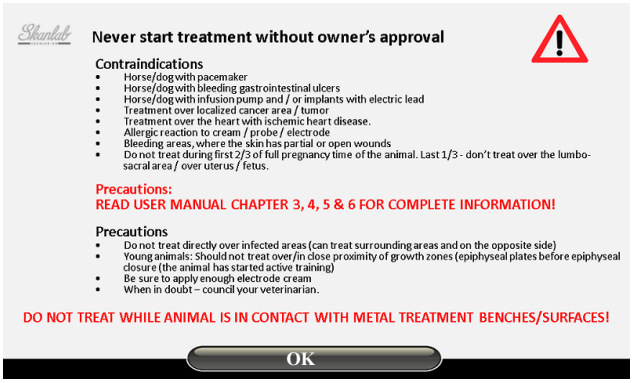
1. Picture 1: is a self-test Skanlab VET™ conducts.

2. Picture 2: Select the animal you wish to treat. Please read the disclaimer!

3. Picture 3: The most important contraindications and important information (read the User Manual for additional information)



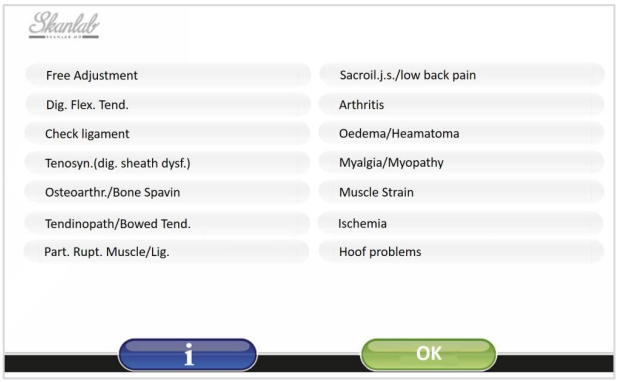




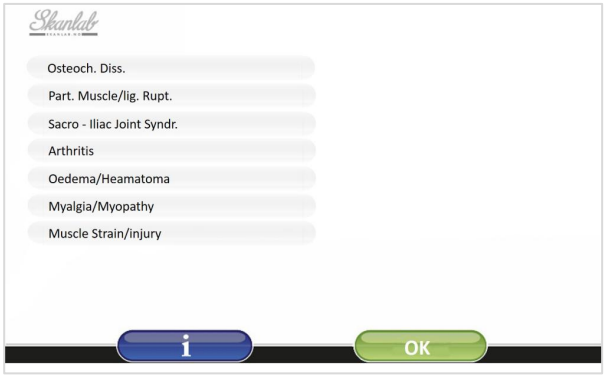


4) Picture 4: Select the condition you want to treat

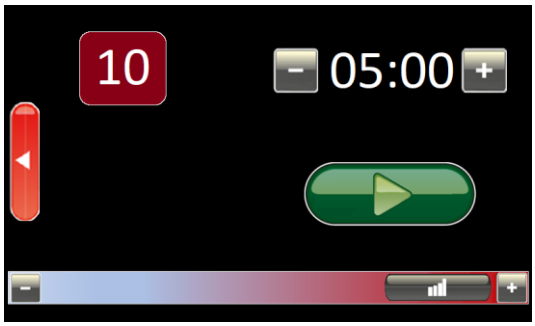
HORSE

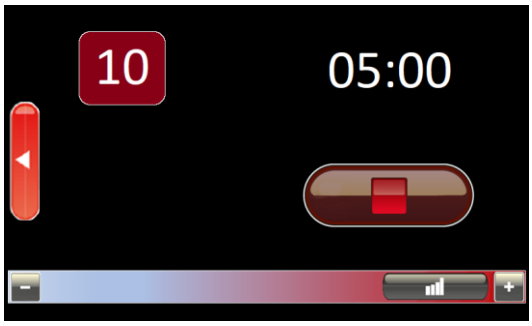


DOG

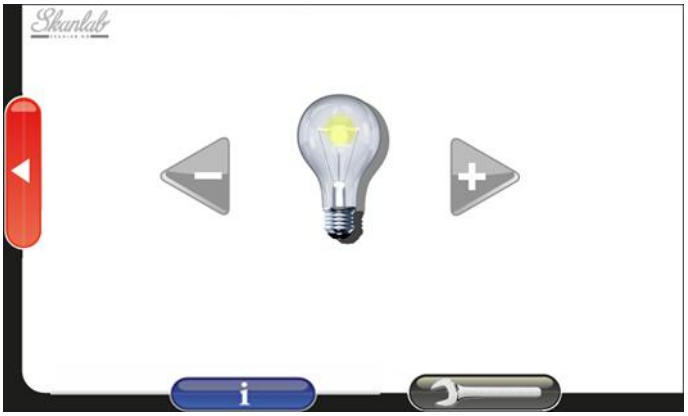


5) Once you have selected the condition you want to treat, you will be taken to the first image below. Skanlab VET ™ is ready to start treatment. You can now start the treatment by pressing the button on the treatment probe. You will see that the timer is counting down. You can press the pause button / stop button at the treatment handle at any time. Likewise, you can adjust the strength up or down at any time on the handle.





6) There is a separate image for adjusting the brightness of the display on the device itself.



7) You can also make all adjustments during treatment by tapping the arrows on the display itself during processing.

8) If you wish to use settings other than the preset, more general settings, you can choose manual settings yourself. For horses, in the diagnostic image – it is the first position “free adjustment”. However, this is recommended only when you are familiar with treatment with Skanlab VET ™ and requires a close observation of the horse. For dog treatment you must adjust strength level within one of the diagnose treatments while treating.



Remote treatment probe for adjusting the levels of effect (energy) + / - and ON/OFF w/indicator diode which lights up when active.

Current return electrode w/black cable

Main power switch ON/OFF marked with which fuse to be used.

Main power cable



Treatment electrode



Flexible current return Rubber electrode

Remote treatment handle with cable for adjusting level of energy +/- and start/stop



Black Plastic Plug
To lock rubber bands with holes

Rubber band 1m length. For easier placement of the current return electrode





Rubber band 2,5m length. For easier placement of the current return electrode

CHAPTER 8. STARTING UP OF TREATMENT

The most important information is shown in the display. Follow the instructions that appear

Remember:

- ***Check condition of treatment probe surface for damage***
- ***Observe the animal / individual during treatment.***
- ***Frequently check the heat effect against your own skin during treatment and feel the temperature of the treatment area.***
- ***NB! Remember to keep the device as close as practical to avoid strain on the cables on the treatment handle and the return electrode.***

Read This and press **OK.**

HORSE:



DOG:



NB! This picture does not show a complete list –
see contraindications and precautions in this Instructions for Use!

The following overview appears in the display and you get 2 options:

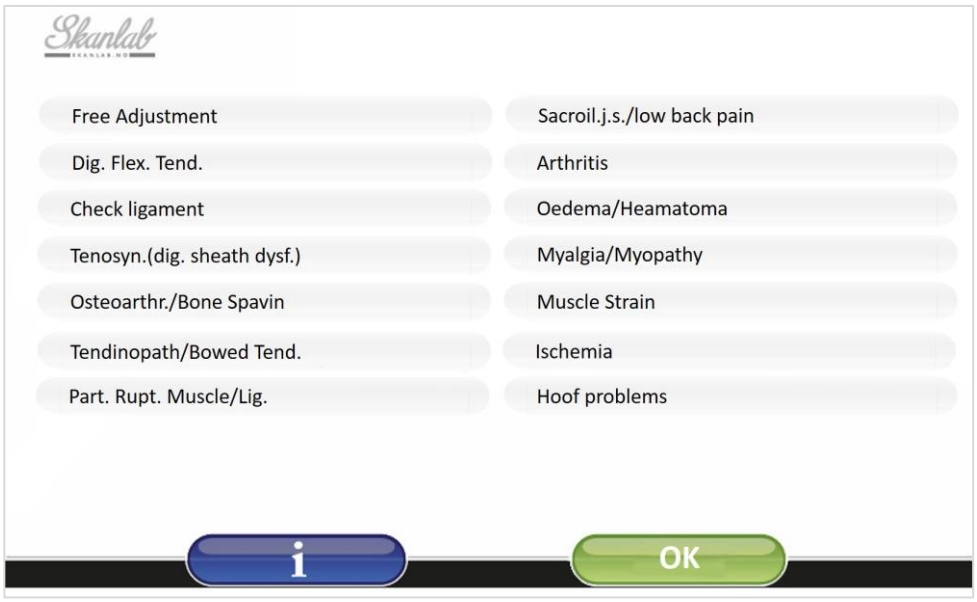
A. Predefined settings: Predefined conditions with predefined strength and duration (can be adjusted manually during treatment)

B. Free adjustment settings (only for horse): You as a therapist determine the strength and duration of the treatment itself.

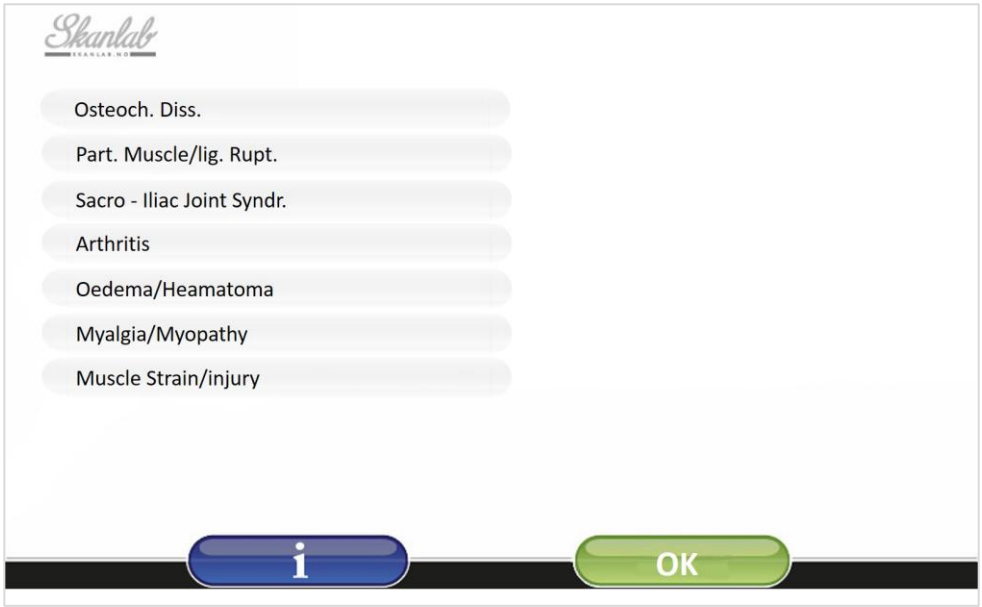
8.1 Predefined settings:

Select the condition you want to treat. Start treatment with the treatment probe. Remember Skanlab Therapy cream in the areas where both electrodes are in contact with horse / dog! NB! For the full name of the conditions – see chapter 12.

HORSE

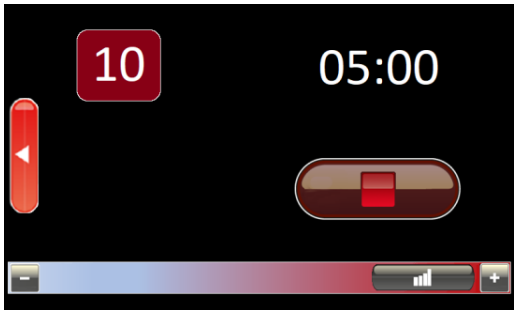


DOG



8.2 Pause

- Press STOP-icon on display or start/pause button directly on the handle.
- To resume, press Start-icon on the display or start/pause button directly on the handle.



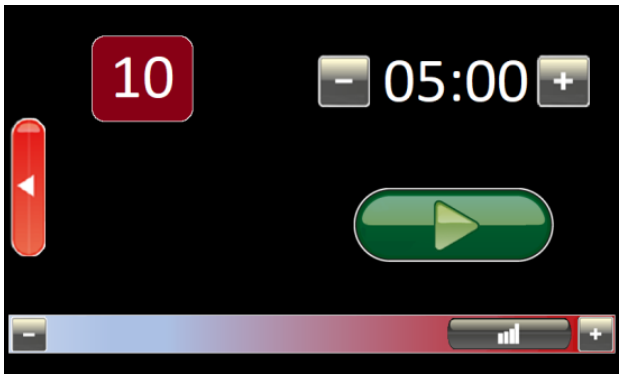
8.3 Adjusting strength level during treatment





a) Press + or - on the small arrows at each end of the scale at the bottom of the screen. The change happens in one step at a time. See change in display
b) Drag the slide icon itself toward + or - to change strength. See change in display
c) Adjust + or - on the treatment handle (recommended)

8.4 Adjusting duration time of treatment



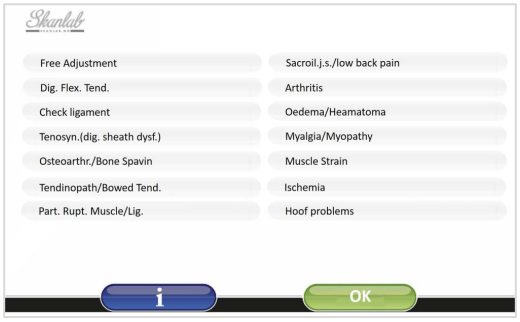
Press + or - next to mm: ss (here: 05:00)
a. In Free adjustment mode (only for horse), set the time before the treatment starts
b. For predefined programs, use the recommended time and starting strength
c. Recommended time can be manually changed before starting the treatment

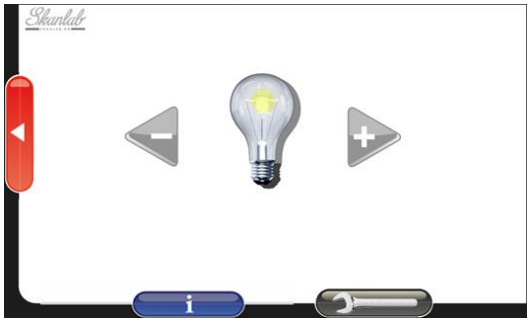
8.5 Treatment time ended

The time is automatically counted down and you hear a signal when the treatment is over. The device can be prepared for the next horse / dog.

8.6 Brightness Adjustment

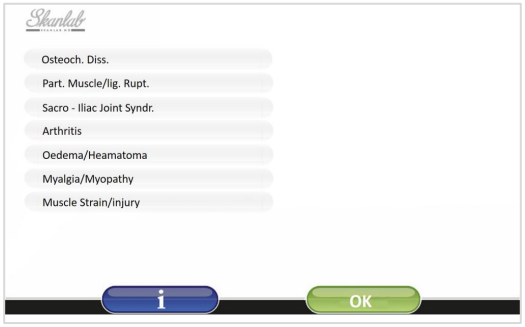
HORSE

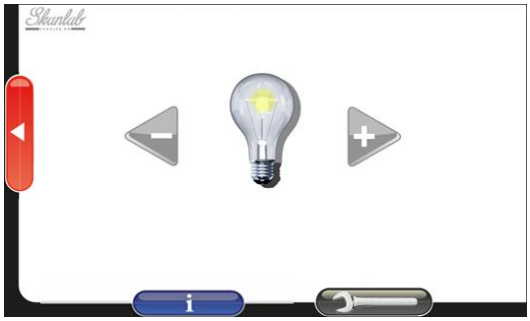




Press "**I**" and you go to the next picture where you use + or - to adjust the "brightness"

DOG





Press "**I**" and you go to the next picture where you use + or - to adjust the "brightness"

8.7 Manual setting of processing time and strength

Horse: In the picture of conditions / diagnoses on horses, the first choice is: "Free adjustment". It starts at strength 5 for 5 minutes. You can adjust this yourself when you have experience with the treatment and Skanlab VET™.

Dog: Here you must adjust within one of the proposed pre-programs.

CHAPTER 9. PRACTICAL INFORMATION ON ELECTRODES AND SKANLAB THERAPY CREAM

1. Make an accurate palpation to get an impression of the extent of the injury
2. Soften / moisten the treatment area well with water, also where the ground electrode should be placed
3. Apply Skanlab Therapy Cream to the treatment site.
4. Place patient return electrode opposite the treatment site if possible, or other practical and suitable place on the animal with good contact. Use the rubber band to hold the electrode in place or use your hand to hold it in place. **Apply Skanlab Therapy Cream to this area as well.**

9.1 Treatment time

- The treatment time varies with the size of the injury area and the condition of the damage.
- It is rare to exceed 10 minutes, but sometimes there are large areas to be treated, and then the time can be increased by treating 2 different areas with 8-10 minutes.
- The main principle is not less than 4 minutes.

9.2 Level of treatment

The strength ranges from 1-10, with 10 being the highest strength.
Therapists treat somewhat different and the extent of the injury area and the thickness of the tissue will vary. Sometimes you move the electrode faster in circular motion which gives less energy per square centimeter / time, and other times you work more slowly which gives more energy per square centimeter / time. This means that the level of energy will vary locally.
We recommend working fairly slowly, and then reducing the strength based on the horse / dog reaction pattern, or own testing.

9.3 Electrodes

Use of Treatment current return-electrode:

The patient return electrode must be placed so that good contact with the animal is achieved. The electrode can be placed opposite of the treatment area, if possible (i.e., the back side of the leg), or other practical and suitable place on the animal, with good contact in a well-vascularized muscle mass, and avoid areas of vascular insufficiency in irregular body contours and bony prominences. Use rubber band, or hold return-electrode with your other hand, but always secure that the patient return-electrode has continuous good contact with the skin during the whole treatment.

- Soak the area thoroughly with water for placement of current return-electrode. (Tips: Use a sponge) Do the same for the area for treatment electrode.
- Apply both the area for current return-electrode and treatment electrode area with a layer of Skanlab Electrode Cream.
- Secure the current return-electrode in correct position (Choose which one to use).
    - **Flexible Rubber electrode:**
        - Stick under the rubber band in order to keep in place and secure good contact. Connect line

- Hold the flexible rubber electrode tight to the animal with your opposite hand, to secure good contact. Use your main hand to treat with treatment handle. Connect line.

- **Steel patient return-electrode (steel rod):**

  - Stick under the rubber band in order to keep in place and secure good contact. Connect line.
  - Hold it tight with your opposite hand, to secure good contact. Attach steel current return-electrode with a thread knot or rubber band to your finger, so it does not slip out of position during treatment. Hold your hand/finger firmly in contact with the animal during the whole treatment. Connect line.

Use of treatment electrode:

- Choose treatment electrode that fits the treatment area / site.
- The treatment is done by working with a light pressure on the electrode. The treatment electrode is placed in the center of the treatment site and circulated for 3-5 times the diameter of the electrode selected.
- When the set processing time is over, the device automatically turns off the electrode current and the device is ready for the next treatment.
- Clean the electrodes after use (See Chapter 10)

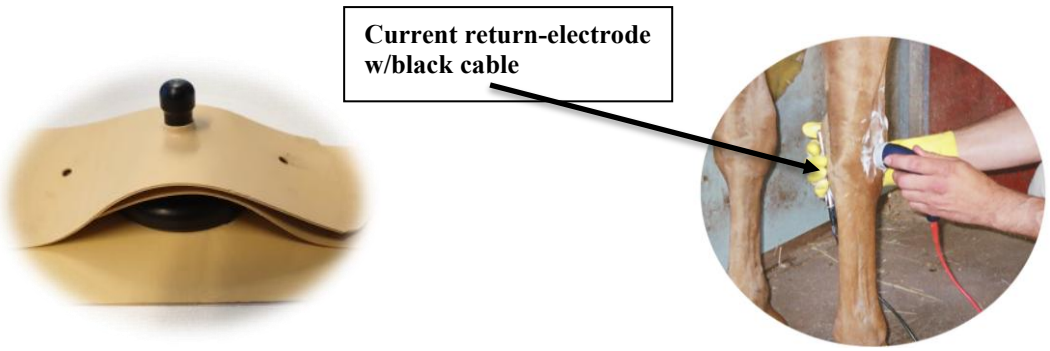
Tips on use of **Rubber band**:

Horse:

Use preferably the longest rubber band and place it around the body of the horse. Place the plug into one of the outer holes, and then place the hole that fits the rubber band tightly (not uncomfortably tight) for the horse over the other end. Then place the line-connected current return- electrode (either flexible rubber electrode or steel bar electrode between the rubber band and the body of the horse. Remember to soak with water and apply cream onto the specific area for the electrode. If you want to place the electrode i.e., on the horse's leg, choose the shorter rubber band, and place it above the treatment area. Tighten sufficiently, but not too much, so it becomes uncomfortable.

Dog:

Use the shorter rubber band for dogs. Place it similarly as described above. If smaller dog: It can be more convenient to hold the ground electrode in your own hand. Remember soaking with water and cream in current return-electrode area.



CHAPTER 10. MAINTENANCE AND CLEANING

10.1 Technical maintenance

Always check the surface of the treatment electrode before use for damage, wounds or scratches. If there is damage or cracks in the enamel paint, or black dots that cannot be removed, the treatment electrode must be replaced.

There is no requirement for frequent service intervals from the producer, Skanlab AS, but we recommend that the device is checked annually. This can be done by the manufacturer, your dealer or by other authorized professionals approved by the manufacturer. It is recommended that you keep an overview of the services that are performed on the device for later maintenance. In some countries, this is mandatory.

Maintenance and all repairs must only be carried out by authorized service personnel. The manufacturer cannot be held responsible for the results of maintenance performed by unauthorized persons. It is not allowed for anyone other than the dealer, or his authorized professionals to open the device. Contact your local supplier or manufacturer directly.

10.2 Cleaning the device

Turn off the device and remove the main electric socket from the wall before carrying out any cleaning. The appliance can be cleaned with a damp cloth. Use lukewarm water and mild soap (without scrubbing particles and without any alcohol solution)

10.3 Cleaning accessories

The treatment electrode
The treatment electrode is cleaned with soap and lukewarm water. The treatment surface itself on the treatment probe can withstand alcoholic fluid if needed for disinfection. Avoid alcohol on the plastic handle.
After cleaning, place the electrodes in the electrode magazine.

Metal rod – patient return-electrode
The electrode can be cleaned with a damp cloth. Use soap and lukewarm water or alcohol solution.

Rubber patient return-electrode:
The electrode can be cleaned with a damp cloth. Use soap and lukewarm water

Electrode cables
The cables can be cleaned with a damp cloth. Use lukewarm water and mild soap. Check the cable at regular intervals for damage to the insulation. Avoid pulling hard on the cables as this can cause damage to the connector itself. We also recommend that you have an extra cable in stock.

10.4 Environment Information - Disposal

Skanlab VET™ contains both materials that can be recycled and materials that are harmful to the environment. It is advisable to separate them from each other (when not to be used any more) and to sort out the harmful parts and parts that can be recycled. By doing so, you contribute to a better environment.
Follow the local regulations regarding disposal of electrical equipment and accessories.

CHAPTER 11. TROUBLESHOOTING

11.1 Power failure - no light in the display - no light in standby diode (blue)

Check if the device is connected to main electricity supply line

If there is still no light in the display - no light standby diode (blue)

- Remove the power cable
- Remove fuse box and check fuses (2xT 2.5A H 250V)
- Turn on the machine and check if the display lights up
- If there is still no power (light in the display), contact your dealer

11.2 Patient return-electrode (steel rod) provides minor electroshock – “sting”

- There is only skin contact in the upper part of the rod while the electrode current is on. Place the return-electrode so that there is maximum skin contact along the entire rod
- The animal or therapist comes in contact with energy-absorbing objects, i.e., metal on box grid or other metal objects.
- Avoid static electricity
- Apply a layer of Skanlab Therapy Cream to the entire rod / flexible rubber electrode, and the area for placement, before placing the electrode.

11.3 Gray treatment electrode gives shock / "sting"

- Do not drop the electrodes on hard surfaces, strike against metal edges, etc. Cracks may form in the coating on the treatment head itself. Therefore, check the electrode surface regularly. You will be able to see the cracks as a black field that cannot be wiped away.
- Use only Skanlab Therapy cream. Other creams can give a shock.

11.4 No heat, but light in the display

- Cable break (treatment electrode or current return-electrode cable). Replace cable immediately!
- Poor contact between electrode and electrode holder. Check that the contacts are "in-place"

11.5 Display is unresponsive or not precise

- See Chapter 5.5 – Calibration of display

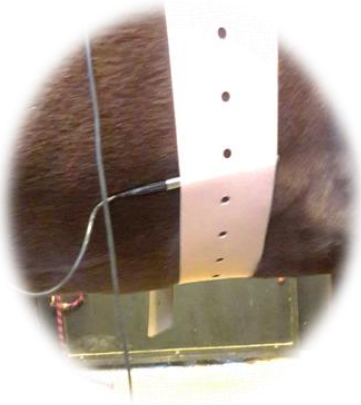
CHAPTER 12. TREATMENT IMAGES AND PRE-PROGRAMMED CONDITIONS WHERE SKANLAB VET™ TREATMENT HAS SHOWN GOOD EFFECT - ABBREVIATIONS

Conditions / diagnoses in the display at Skanlab are entered with some abbreviations.
Full text can be seen below.

	HORSE			
	Skanlab VET display (abbreviation)	**Diagnoses - Full text**	**Time**	**level**
1	Free adjustment	Free adjustment	5 min	5
2	Dig. Flex. Tend.	Digital Flexor Tendinopathy	8 min	7
3	Check ligament	DDFT Accessory / Check ligament	6 min	7
4	Tenosyn.(dig. sheath dysf.)	Tenosynovitis (digital sheath dysfunction)	6 min	7
5	Osteoarthr./Bone Spavin	Ostheoarthritis / Bone Spavin	10 min	8
6	Tendinopath/Bowed Tend.	Tendinopathy /Bowed Tendon	10 min	8
7	Part. Rupt. Muscle/lig.	Partial Rupture Muscle / Ligament	7 min	7
8	Sacroil.j.s./ low back pain	Sacroiliac joint syndrom / Low back pain	10 min	9
9	Arthritis	Arthritis	7 min	7
10	Oedema / Heamatoma	Oedema / Heamatoma	8 min	8
11	Myalgia / Myopathy	Myalgia / Myopathy	10 min	9
12	Muscle Strain	Muscle Strain	8 min	8
13	Ischemia	Ischemia	10 min	8
14	Hoof problems	Hoof problems	8 min	7

	DOG			
	Skanlab VET display (abbreviation)	**Diagnoses - Full text**	**Time**	**level**
1	Osteoch. Dissecans	Osteochondritis dissecans	8 min	6
2	Part. Muscle/lig. rupt	Partial Muscle / Ligament Rupture	6 min	5
3	Sacro-Iliac Joint Syndr.	Sacro-Iliac Joint Syndrome	7 min	6
4	Arthritis	Arthritis	6 min	5
5	Oedema / Heamatoma	Oedema / Heamatoma	8 min	5
6	Myalgia/Myopathy (soft tis. Inj.)	Myalgia / Myopathy (soft tissue injuries)	8 min	6
7	Muscle Strain	Muscle Strain	6 min	5

Placement of steel current return electrode



Placement of current return rubber electrode







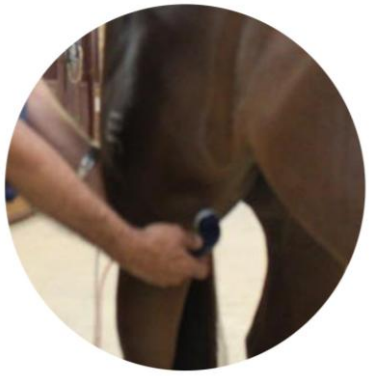


NB! Soak the area first with water, and then apply Skanlab Therapy cream



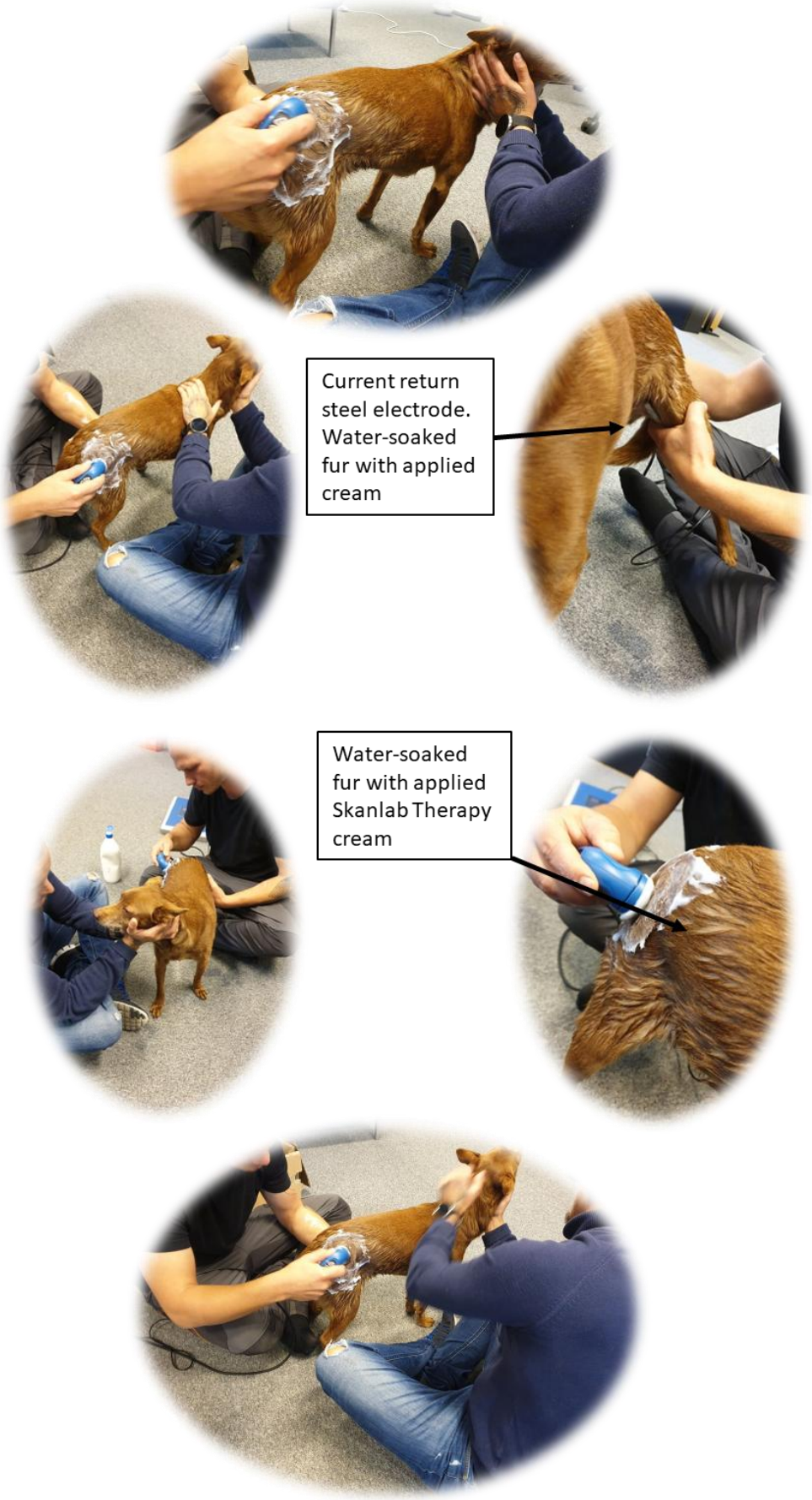
Different placement alternatives with
handheld patient return-electrode










Current return steel electrode. Water-soaked fur with applied cream
Water-soaked fur with applied Skanlab Therapy cream

CHAPTER 13. TECHNICAL SPECIFICATIONS

13.1 Technical approvals

CE

Skanlab VET ™ satisfies all orders and standards in accordance with the European regulations:

- Low voltage directive (2014/35/EU);
- EMC directive (2014/30/EU);
- Machinery directive (2006/42/EU);
- RoHS directive (2011/65/EU amended by 2015/863/EU).

13.2 Standard equipment

61-4	Treatment electrode, Ø30mm	1
62-4	Treatment electrode, Ø23mm	1
11.4	Steel rod return-electrode	1
21.3600-18	Rubber band 1m length VET	1
21.3600-19	Rubber band 2,5 m length VET	1
21.3600-21	Black Plastic plug VET	1
21.3600-21	Flexible rubber return-electrode	1
70-3	Complete remote handle	1
21.3600-4S	Electrode cable, black	1
21.361010-17	Power Supply cable	1
21.3600-6	Skanlab Therapy Cream 1 ltr	1

13.3 Additional Equipment

61-4	Treatment electrode, Ø30mm
62-4	Treatment electrode, Ø23mm
11-4	Patient return- rod
21.3600-18	Rubber band 1m length VET
21.3600-19	Rubber band 2,5 length VET
21.3600-20	Black Plastic plug VET
21.3600-21	Flexible rubber patient return-electrode
70-3	Complete remote handle
21.3600-4S	Electrode cable, black
21.361010-17	Power Supply cable
21.3600-6	Skanlab Therapy Cream 1ltr
21.3600-13	Skanlab Therapy Cream, 5ltr
21.3600-11	Dosage pump to 5l Cream

13.4 Technical specifications

Mains voltage	:	100-240Volt,
Frequency	:	60/ 50 Hz
AC Output current	:	0,6 –1,2 A
Maximum output power	:	25W
Output frequency	:	500 kHz
The Device:		
Safety class	:	I type BF, according to IEC 60601-1
Patient leakage current	:	better than IEC-req (IEC≤ 100 μA)
Ditto, first wrong condition	:	better than IEC-req (IEC≤ 500 μA)
Dimensions	:	302x300x126,5mm (lxbxh)
Weight	:	4,3kg
Fuses	:	2xT 2,5A H 250V

13.5 Environment conditions

Environment conditions for transportation and storage

Environment temperature	:	- 10^0 C till + 40^0 C.
Relative humidity	:	10 till 90 % (no condensation)
Atmospheric pressure	:	500 till 1060 hPa

Environment conditions for normal use

Environment temperature	:	- 10^0 C till + 40^0 C.
Relative humidity	:	10 till 90 % (no condensation)
Atmospheric pressure	:	800 till 1060 hPa

13.6 Classification : CE

Software

- Class A according to EN ISO 62304, Software Safety Classification

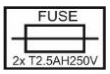
Implemented Safety Standards

- IEC 60601-1: Medical Electrical Equipment – Part 1: General requirements for safety
- IEC 60601-1-2: Medical electrical equipment – Part 1: General requirements for basic safety and essential performance – Section 2: Collateral standard: Electromagnetic disturbances -- Requirements and tests
- IEC 60601-1-4: Medical electrical equipment - Part 1-4: General requirements for safety - Collateral standard: Programmable electrical medical systems
- IEC 60601-1-6: Medical Electrical Equipment – Part 1: General requirements for safety – Section 6: Collateral standard: Usability
- IEC 60601-1-11: Medical electrical equipment -- Part 1: General requirements for basic safety and essential performance – Section 11: Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment
- EN ISO 62304: Medical device software – Software life-cycle processes
- EN ISO 14971: Medical devices – Application of risk management to medical devices
- EN ISO 10993: Biological evaluation of medical devices – Part 1: Evaluation and testing within a risk management process

13.7 Manufacturing Standards

- EN ISO 13485 Medical devices – Quality management systems Requirements for regulatory purposes

CHAPTER 14. SYMBOLS

Symbol	Meaning
	Keep dry
	Manufacturer
	Serial number, including manufacturing date
	Reference Number or Part Number
	Refer to Operating Instructions
	Do not dispose with your general waste
	Type BF Applied Part
	Fuse
	Temperature transport conditions
CE	The Device Complies with: • Low voltage directive (2014/35/EU); • EMC directive (2014/30/EU); • Machinery directive (2006/42/EU); • RoHS directive (2011/65/EU amended by 2015/863/EU).
	Safety Alert, Refer to Operating Instructions

CHAPTER 15. LIMITATION OF LIABILITY

The manufacturer is not responsible for the use of the device for purposes other than those described in this manual.

Skanlab VET ™ is only for use within the treatment of soft and hard skeletal tissue such as joints, including the spine and skeletal muscle. The product is not intended for the treatment of other internal tissues or organs. See also contraindications and precautions in Chapter 3.

Under no circumstances will Skanlab AS and their supplier and distributors be liable for indirect or direct damages arising from the use of the appliance. Either the user is qualified or not. This includes, without limitation, loss of relationships, work and productivity, computer errors, or other commercial losses, although the possibility of this is suggested and regardless of content in contracts and the like.

15.1 Product liability

A law on product liability has become applicable in many countries. The Product Liability Act states, among other things, that after a period of 10 years after the product was put into circulation, the manufacturer is no longer responsible for possible deficiencies in the product.[4)]

Reference: 4) Act on Product Liability

CHAPTER 16. CONTACT

For assistance, please visit our website www.skanlabvet.no
The latest version (in electronic or printed format) of this Instructions for Use can be obtained free of charge from our website www.skanlabvet.no or by calling the telephone number: +47 69 35 20 80 or e-mail: info@skanlab.no.
The Instructions for Use will be sent (free of charge) to you within 7 (seven) calendar days.