DEEPERS X5 ®

PULSE INDUCTION METAL DETECTOR
2010 MODEL

Instruction Manual

You have acquired a new **Deepers X5 model 2010** manufactured by **LATINCOM SA ELECTRONICS** of the United States of Mexico. This is a quality product of **French technology**, under exclusive license from **Deepers Detector**, which is widely recognized in more than 25 countries for the performance and quality of its detection equipments.

The **Deepers X5** metal detector is exceptionally powerful, utilizing 800 to 1100 Volts electromagnetic detection waves to reach even deeper than ever before. It is very compact, simple to adjust and easily maneuverable, driven by the latest electronic and technological advancements in the field of Pulse Induction detectors. It is the result of our knowledge and the perfection of our expertise in this domain. This is certainly the most compact, powerful and efficient Pulse Induction metal detector on the market.

Main Features of Deepers X5

- Compact and very powerful Pulse Induction metal detector. Miniaturized electronic circuit. Latest cutting edge technology
- 500 available **FRE**quencies, from 450 to 950 Hertz, to adapt the detector to all types and conditions of the prospecting grounds, their mineralization and any local interference
- Electromagnetic detection waves of 800 to 1.100 Volts
- Adjustable **SENSI**tivity according to the search undertaken and the mineralization of the prospected ground
- Precisely **ADJUST**able audio-threshold within 10 available precise potentiometer turns
- Sound output is accessible through the internal speaker or high-definition headphones (recommended)
- Two available detection modes. **DETECT** at the **MAXI**mum power and deep soil penetration or **DETECT** at the **MINI**mum for detection on the beach, mineralized or contaminated land, inside of buildings, in ruins or for more relaxed exploration at a moderate depth
- Drop Gold Silver system for optimized detection of gold, silver, and other non-ferrous metals, rather than iron scraps
- Flexible **DISCRI**mination system of scrap metals at lower depths cuts off the audio-threshold and lights up the red **REJET** LED when the search coil passes over the top of an undesirable object; which prevents digging for nothing
- Adjustable detection spectrum according to the audio-threshold settings
- 100% elimination of common bottle caps by fine-tuning **SENSI**tivity
- Detection of an object indicated by increase in sound level which is impossible to miss
- Average energy consumption: 175 mA/H (from 150 to 200 mA/H depending on the search coil and the frequency settings)
- Battery pack holds a rechargeable NiMH of 12 Volts 2.2 Amps, which is easily interchangeable
- Battery provides 9 hours of uninterrupted detection – and up to 12 hours, taking into account the downtimes
- Telescopic Commando Arm is effortlessly adjustable, made of incredibly durable materials, accompanied by comfortable armrest, ergonomic rubber handle inclined at 20° for long detection hours without fatigue with the lower coil support shaft made of carbon fiberglass
- Electronic control box, armrest and the battery compartment are made of the highest quality ABS
- **Deepers X5** accepts all the search coils manufactured by the Deepers Detector
- Ultra penetration power:
  - Up to 1 m (3.3 ft) of depth for a target of 20 cm (7.8 in) by 30 cm (11.8 in) with the standard round coil that is included in the package
  - Up to 2,5 m (8.2 ft) of depth for a bigger target with the optional Hypersensitive search coil (recommended option)
  - Up to 4 m (13.1 ft) or 5 m (16.4 ft) of depth for a significant target with the optional Frame coil (option)

*We advise that you do not rush right into your adventure the moment you receive your equipment. Take the time to carefully read this manual, get to know your **Deepers X5**, and familiarize yourself with the various adjustment capabilities; you will achieve better results when you know your equipment. The **Deepers X5** detectors are an instrument of precision and a faithful search companion that will give you much satisfaction if you know how to operate it well.*

Content of the Manual

Content of the basic package

1. Deepers X5 Electronic control box
2. Commando Arm:
   a. Upper shaft with heavily reinforced nylon structure is carrying the electronic control box, armrest, battery compartment and handle
   b. Middle shaft made of Duralumin with two twistlocks on both ends
   c. Lower shaft is made of virtually unbreakable carbon fiberglass for carrying a search coil
3. Standard round search coil of 20 cm (7.8 in) in diameter
4. Rechargeable NiMH battery of 12V 2.2A placed in its compartment under the armrest
5. Smart battery charger 110/240V and adapter
6. Ergonomic High definition headphones
7. Bag of replacement accessories
8. Transport bag for the detector
9. English instruction manual in color

   \+ Optional ordered items

Verify the content of your package upon the receipt

Assembly of DEEPERS X5

1. Commando Arm:

a. Telescopic Commando Arm:

First, assemble the telescopic shaft of the Commando Arm. Take the middle shaft and loosen the twistlocks by turning them counter-clockwise. Ensure that the two white pins inside of the twistlocks are pushed down. If not, slightly press them down with your finger to allow the passage of the telescopic shafts (refer to the picture). Slide in the upper and lower shafts, adjusting the extension according to your height - minimum extension 110 cm (43.3 in), maximum 140 cm (55.1 in). Rotate the twistlocks clockwise to immobilize each shaft. Do not overtighten, as it may damage the twistlocks.

b. Attaching the search coil to the lower shaft:

Plug the two blocking rubber holders into the holes on both sides of the lower shaft. Slide the lower shaft into the bracket on top of the search coil. Ensure the proper alignment of the holes. Insert the bolt (provided) through the lower shaft and the bracket. Fasten with the nut (provided) until the coil is immobilized at an appropriate angle parallel to the ground. Be careful not to overtighten, as it may damage the thread of the nut.

Wind the search coil cable around the Commando Arm to take up the slack. Leave enough slack at the bottom of the cable near the coil to allow for readjustment of the coil's angle while detecting. Use two Velcro straps (provided) to secure the coil cable to the shaft. Plug the coil connector into to the back panel of the electronic box, into the **SEARCHCOIL CONNECTOR** socket, properly aligning the direction of the small pins. Moderately tighten the security nut of the connector. Do not overtighten.

2. Connecting the headphones:

Plug the headphones connector into the **AUDIO SOCKET** (bottom-right corner) on the front panel of the electronic box. The headphones are 15% more efficient in delivering a more precise audible signal than the internal speaker. The internal speaker is automatically silenced once the headphones are connected.

Note: When using the mono search coils like the Standard Round coil, hypersensitive coil, Wand coil and Frame coil set the switch on the back panel of the electronic box on the position **MONO LOOP** (at the red point). If you use DD Litz coil, or other special Double search coil, change the position of the switch on **DD LITZ COIL**.

Attention: Never disconnect the plugs by pulling the cables. Always, grip the connectors with your hand to gently disconnect them.

Advice: The **Deepers X5** is a very powerful and sensitive detector, when using it make sure that you do not have large metal objects or coins in your pockets and use shoes without metal eyelets, nor use metal watches and similar accessories. Do not use belts with large metal buckles. These objects present a common source of interference.

It is important, to never put the headphones directly on the ears, but on the tympanums to avoid damage to the hearing by the detection signal (refer to the picture).

Quick Start of Deepers X5

Distance yourself away from all metal objects and at the minimum of 6 m (20 ft) away from any modern constructions made of reinforced concrete. Assemble the Commando arm (refer to "Assembly of the Commando Arm") and connect the standard search coil (or any other coil made by Deepers) to the electronic box. Before turning on the device, position the **SENSI**, **DISCRI** and **FRE** knobs as well as the **SOUND** switch on their respective **RED POINTS**. Position the 10-turn-precision **AJUSTE** potentiometer at 5 turns from either of its extremes (from its maximum or minimum).

Position the search coil at approximately 10 to 15 cm (4 to 6 in) from the ground, activate the detector using the **OFF-ON** knob by turning it to **ON** towards the **BALANCE** region until you find first point of sound and then adjust the final desired sound level (audio-threshold) using the 10-turn-precision **AJUSTE** potentiometer within its range. If you notice a crackling or unstable sound due to electrical local disturbances, radio transmissions, high voltage wires or other electrostatic disturbances, to neutralize these effects, you only need to either slightly increase or decrease the frequency with the **FRE** knob to obtain a clearer and more stable sound.

Note: When the detector is activated, the green LED on the front control panel (top-right corner) lights up.

Important: It is advised that you always detect using the sound (the internal speaker or headphones) so that you are able to continuously control the operation of your detector. Without sound you cannot control the detector and you run the risk of passing over top of a good target without ever knowing it.

Advice: The general rule of thumb is to place the **SENSI** knob at the **red point** to obtain optimal stability of your detector. The **REJET** LED has to be green so the detector is operational (read more in "Adjustment of discrimination"). If the **REJET** LED is red, slightly decrease the level of discrimination with the **DISCRI** knob until the **REJET** LED turns green.

Important: The internal electronic components take approximately 5 minutes after turning on the detector to stabilize properly according to the temperature. It may be needed to slightly readjust the audio-threshold with the potentiometer **AJUSTE**.

Detection signal – Target alert:

Passing the coil near or above a target will immediately provoke a sudden increase in sound level in the speaker or headphones. The sound is the loudest and peaks just as the coil passes right over the target that is sizable or shallow (for example, food cans, horseshoe, big roof nails or other substantial scraps) the sound will be cut and the **REJET** LED will change from green to red to indicate the discrimination. In order not to detect small trash or pieces of scrap metal that are usually found at the surface, you can either lower sensitivity by fine-tuning the **SENSI** knob, elevate the search coil to a greater height from the ground or temporarily reduce the level of sound (almost a silent search, for example) with the **AJUSTE** potentiometer. To precisely localize the target, you can follow the same above steps.

Available Adjustments of Deepers X5

Controls on the Front Panel

- **ON-OFF BALANCE to start the detector and determine the audio-threshold**
- **AJUSTE to fine-tune the audio-threshold**
- **DETECT two detection modes MAXI or MINI**
- **SENSI to adjust the sensitivity**
- **FRE to adjust the frequency**
- **DISCRI to adjust the discrimination**
- **SOUND two sound modes available**
- **REJET LED indicates the rejection of a discriminated target**

- **GREEN LED (top-right corner) to indicate the activation of the detector**
- **BAT red LED alarms when the battery needs to be recharged**
- **RED POINTS recommended positioning of the various knobs and switches for quick adjustment of the detector**
- **AUDIO SOCKET (bottom-right corner) the connection port for the headphones**

1. Adjustment of the audio-threshold – OFF-ON BALANCE:

Turn on the detector using the **OFF-ON** knob by turning it to **ON** towards the **BALANCE** region until you find first point of sound and then adjust the final desired sound level (audio-threshold) using the 10-turn-precision **AJUSTE** potentiometer within its range (refer to the following paragraph **Audio-threshold fine-tuning**). When the detector is activated, the green LED on the front control panel (top-right corner) lights up.

2. Audio-threshold fine-tuning – AJUSTE knob:

Fine-tuning of the audio-threshold within the available 10 precise turns of the **AJUSTE** potentiometer provides a wide range of sound levels. Before turning on the detector, **do not forget** to position the **AJUSTE** knob in the middle of its range, at 5 turns from either of its extremes (from its maximum or minimum). For increasing the sound level, turn the knob clockwise; to reduce, turn counter-clockwise.

3. Adjustment of Sensitivity - SENSI knob:

The sensitivity of Deepers X5 is adjusted using the **SENSI** knob. The "**Drop Gold Silver**" system of the Deepers X5 works in microseconds (internal clock has a fixed delay of 8 microseconds corresponding to the **RED POINT** position of **SENSI**) and not in milliseconds like other metal detectors on the market. Therefore, the Deepers X5 is extremely agile in locating the precious metals, particularly gold and silver, even at greater depths.

a. Elimination of small trash using SENSI knob:

Positioning the **SENSI** knob in the range outlined in the picture (between 3 and 7 o'clock), allows avoiding the detection of small trash such as nails, pull tabs, bottle caps and other scrap metals without losing the opportunity to locate important targets even if they are deep. It is important to note that lowering sensitivity decreases the soil penetration power of the detector.

Note: The level of sensitivity selected influences the detection at greater depths. According to the level of mineralization of the ground, adjust the **SENSI** knob in such a way that the detector is not disturbed by false signals. If the ground is not mineralized or polluted, the sensitivity can be set above the **RED POINT** (hypersensitive mode).

Advice: Universally, it is preferable to position **SENSI** knob on the **RED POINT**. Lowering the sensitivity will increase stability in detection. At the **RED POINT** and higher, the detector works in hypersensitive mode, which increases the penetration power of the search coil, but might cause instability in case the prospected ground is mineralized or polluted.

4. Adjustment of Frequency – FRE knob:

The **Deepers X5** is equipped with a frequency adjustment system with the FRE knob. Between 450 and 950 pps (Hertz) there are 500 detection frequencies available. The higher the frequency is, the sharper the sound. This frequency range permits to explore all types of grounds with an appropriate and optimal soil penetration signal. On a humid ground it is preferable to work on lower frequencies. On the contrary, on a hard or dry ground, the higher frequency will give better results. If you notice a crackling or unstable sound due to electrical local disturbances, radio transmissions, high voltage wires or other electrostatic disturbances, to neutralize these effects, you only need to either slightly increase or decrease the frequency with the **FRE** knob to obtain a clearer and more stable sound.

Note: The energy consumption of the detector depends on the level of the frequency and can vary from 150 mA/H with 200 mA/H (according to the coil used). However, **Deepers X5** is equipped with a new refillable NiMH battery which ensures long hours of detection without problem.

5. Adjustment of the discrimination – DISCRI knob:

a. Discrimination system of Deepers X5

The **Deepers X5** is equipped with a highly efficient discrimination system against shallow ferrous objects. The system permits the detector to ignore any large iron targets within the first 20 cm to 40 cm (8 in to 16 in) of the depth, where it is common to find a great quantity of trash (scrap metals, drums, horseshoes, barrels, tin cans, old utensils, tools, wires, etc.). With the **DISCRI** system, whenever the coil passes over or near the scraps, that should be rejected, the **REJECT** LED instantly changes green to red and the sound temporarily cuts off, to indicate the discrimination of trash. If the detected target is a gold or silver coin, antique bronze, jewel, ring or other precious metal, or if it is at a great depth (which can be very interesting since most things at depth were placed there for a reason), whatever the nature of its metal, **Deepers X5** will precisely locate it without losing any of its penetration power, the **REJECT** LED will remain green and the sound audible.

b. Adjustment of the discrimination of Deepers X5

To adjust the level of discrimination turning **DISCRI** knob from its beginning (1 o'clock position) clockwise until obtaining that the **REJET** LED turns from the red to green. The **RED POINT** corresponds to the middle discrimination range. To obtain the maximum discrimination (which depends on many variables) the **REJET** LED has to just become green after being red. This system has to be adjusted after choosing suitable frequency (**FRE** knob) and sensitivity (**SENSI** knob). In the end, the volume of the desired audio-threshold can be readapted with **BALANCE** and **AJUSTE** potentiometers. By modifying the frequency or sensitivity it is possible that the **REJET** LED changes to red; in this case, it is necessary to readjust **DISCRI** to make the **REJET** LED return to green. This system is exceptionally reliable, very simple and powerful, that is easily regulated according to the desired target to be discriminated without losing absolutely the depth penetration power of the detector (patent Deepers Detector).
Important: If the **REJET** LED is red, it is impossible to obtain the audio-threshold and the detector is inoperative. It is absolutely necessary that the **REJET** LED is green so that the detector is operational.

Recommendation: During the search, it is always advised that you maintain the search coil at a height of 5 to 10 cm (2 to 4 in) above ground in order to avoid the interference due to the mineralization of the soil or the presence of small metallic fragments. If the ground conditions permit, in order to be more successful at finding coins or small object at large depths, you can lower the coil closer to the ground but in this case you run the risk of having a valuable metal target, such as a coin, be discriminated and rejected with the **REJECT** lighting up the red LED and cutting off the sound. If this situation occurs, lift up the coil a couple of centimeters (inches) and the **DISCRI** system will then correctly indicate whether the target should be rejected or maintained (**REJECT** LED remains green).

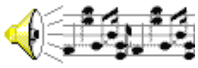
6. Choosing the Detection mode - MINI and MAXI:

Deepers X5 is equipped with a new very practical system which makes it possible to choose between two modes of detection with the switch **DETECT**. It is possible to work with a maximum of power and ground penetration of the detector by positioning the switch on **MAXI**, which is appropriate particularly for the prospection in virgin lands with low mineralization or pollution, in the fields or forest, for example. In **MAXI** mode the targets will be detected even if they are far away from the search coil – especially Hypersensitive coil (up to 30 or 40 cm (12 or 16 in) according to the depth and size of the detected target). Position of the switch on **MINI** allows for more tranquil detection with less local disturbances, but always with a good power. This mode is recommended for an easier and quiet detection, in particular on polluted ground, mineralized and if the priority is not the deep power performance. It is recommended to start with the **DETECT** on **MINI** and if it is necessary, later to pass again over the ground in **MAXI** mode to see if nothing is missed at a greater depth. Difference in power between the two modes is approximately 20%.

7. Choosing the audio output system:

The **Deepers X5** is equipped with a double audio system. It is possible to control the audio-threshold sound of either the internal speaker or the connected headphones. When the headphones are attached the internal speaker is automatically silenced. For precise searches it is advised that you always use headphones because they offer more precision and accuracy in detection. As a reminder: It is important to never put the headphones directly on the ears, but on the tympanums to avoid damage to the hearing by the detection signal.

8. Choosing the sound mode – SOUND SWITCH:



The **Deepers X5** has a "**Sound Effect**" system that increases the strength of the detection signal if a doubtful object is encountered at an uncertain depth. This system is particularly efficient in some lands where the permeability of electromagnetic waves is limited, or for better analyzing of a dubious signal. In order to use this system, put the **SOUND** switch on **2** and if necessary readjust audio-threshold with the **AJUSTE** knob. From this moment, each time the detector passes over a deep or uncertain target it will generate a strong modulated sound. The system "**Sound Effect**" is more efficient with the headphones and less effective with the internal speaker.

Battery of DEEPERS X5

1. NiMH rechargeable battery:

Power and energy are inseparable, outstanding power needs exceptional energy source; it is a fundamental rule in detection. For **Deepers X5** we used new technology of refillable **NiMH** batteries that offer multiple advantages: lightweight, great energy storage capacity allowing for 9 to 12 hours of continuous detection, quick recharge and replacement ease. For all these reasons, after multiple satisfactory tests, we chose this muscle-energy source for our compact and powerful detector. Moreover, in case of extensive and remote treasure hunting trips, it is recommended to bring additional batteries to ensure longer hunting hours. Additional batteries are available for ordering only from our company.

2. Battery charge indicator:

The red LED located on the top-left corner of the front panel (**BAT** indicator) lights up when the battery has left approximately 25% of its total energy, or roughly 2 to 3 hours of detection. The blinking intensity of the light is progressive; once the indicator remains constantly lit you have about 1 hour of battery life left. When the battery has run out of energy, the detector will emit a sound followed by an immediate reduction in sound volume, which indicates that there is no battery energy left. This is the time to recharge or change the battery. The **NiMH** battery when properly charged allows for 9 to 12 hours of continuous detection (depending on the coil and frequency used).

3. Battery charger:

Battery Charger Socket

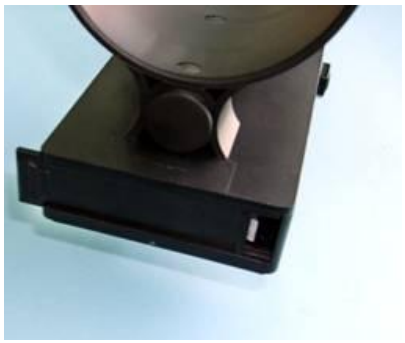
Connect the charger to a socket of 110 to 240 volts (no need to make any adjustments; it will automatically select available voltage). Insert the male battery cable connector to the female connector on the charger. Battery fully recharges in 3 hours depending on its initial status. A fast charge of 2 hours is equivalent to 75% of the battery's potential. When the battery is done recharging, disconnect the charger from the socket and the battery. The incorporated regulator of the charger controls the process but we advise **not to recharge the battery for more than 3 hours.** We use new generation of Switching Adapter and Intelligent chargers, because they are more reliable and precise in recharging of the **NiMH** batteries. When the battery is charging, the LED on the charge . The charger is equipped with a security fuse (white) as shown on the picture, to protect it from electricity fluctuations during the recharge. It is possible to change the fuse by slightly pushing and turning the fuse holder, removing the old fuse replacing it by a new one. The **Bag of replacement accessories** contains 1 spare fuse. We recommend the use of a fuse of 4 or 5 Amps.

Attention: It is extremely important that you recharge the battery in an area far way from flammable or explosive material and in a well ventilated area (never in a closed in area). In case you do not follow our safety advice our company will not be held responsible for any incidents or accidents.

Advice: It is advised that you recharge the battery 2 to 3 hours before an expedition. Never store a detector and the battery in a hot, humid, or oxidizing place (in the car pay attention to the internal temperature during summer). If it rains during your treasure hunt, protect the electronic box and battery compartment using plastic bags. If you do not use your detector for long periods of time, we advise that you recharge your battery once in awhile (at least every 3 months).
Never use accessories that are not manufactured by Deepers Detector, because they would most likely damage the detector, create high electronic tension or overheat it, which would destroy the detector.

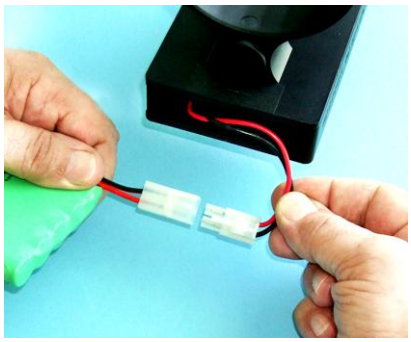
4. Replacement of the Deepers X5 battery:

To replace the NiMH battery of 12V 2.2A, it is necessary to open the back panel of the battery compartment located under the armrest, carefully pull the battery out and push down the security clips gently disconnecting the plugs. Connect the new **Deepers Detector** battery and carefully push it in the compartment, closing the battery compartment cover. It is highly recommended to recharge the battery before using the detector.



Slide the Cover to the Left

Carefully Pull out the Battery



Push security clip with your thumps to disconnect the plugs

Important: The **Deepers X5** has been tuned at our factory and does not require any readjustment of the internal components. All adjustments desired by the user are possible using the knobs and switches on the detector. Under no circumstances should the user alter the internal components which are protected by special infrared coating to detect any unauthorized modifications; non-compliance will result in a cancellation of all our guarantees.

Detection Techniques with DEEPERS X5

1. Detection on the beach:

When metal detecting on the beach, position the **SENSI** knob between the 3 and 5 o'clock, in this mode the detector will not detect any beer or soda bottle caps (the plague of metal detection). You will not get an audio response on these but will still be able to flawlessly detect lost valuables items and coins. This feature is very practical in this type of metal detecting and allows for quick finds on the beach. In this case, it is possible search the beach with the coil placed closely to the sand without actually touching it.

On the beaches, the Deepers X5 adapts particularly well to the satisfaction of the most demanding treasure hunters by being very light, handy, compact and maneuverable. On the beach, the salt accentuates the mineralization, thus most other detectors operate with a great difficulty. The Pulse Induction detectors, particularly the Deepers, do not have this type of problem. **Deepers X5** allows hours of metal detection and discovery of many jewelry pieces lost by visitors, such as earrings, chains, bracelets, watches, rings and don't forget coins, all of these items immediately disappear out of sight and under the sand as soon as they are dropped. It is well known that the moment a person immerses into cold water for a swim, fingers shrink and rings slip right off and even quicker when the fingers are greasy from suntan lotions and creams. It is recommended to use obtain a special sand filter, to quickly extract the newly found items.

Advise: It is advised to metal detect **at dawn**, when there are not a lot of people on the beach, because the ground is free of obstacles such as umbrellas, towels, chairs and people. The detectors attract a lot of attention from the public and in short time, one can find himself surrounded by dozens of curious spectators.

2. Metal detection advices from a famous treasure hunter - Nicolas:

"Passing the coil near or above a target will immediately provoke a sudden increase in sound level, even for a very deep target. The sound is the loudest just as the coil passes right over the target. In order not to detect small trash or pieces of scrap metal that are usually found at the surface, you can either lower sensitivity by fine-tuning the **SENSI** knob, elevate the search coil to a greater height from the ground or temporarily reduce the level of sound (almost a silent search, for example) with the **AJUSTE** potentiometer. To precisely localize the target, you can follow the same above steps.

To obtain higher efficiency, I position the search coil at a height of 10 or 15 cm (4 to 6 in) off the ground and then I fine-tune the **AJUSTE** potentiometer to achieve the correct audio-threshold. I always work with my headphones on. I sweep the ground using the search coil by moving left to right all the while maintaining the coil at the same height and parallel to the ground (very important). Move the search coil at about 50 cm/sec (20 in/sec). Every metallic object that passes under the coil (even those not directly underneath the coil) will provoke an increase in sound. The signal peak indicates the pinpoint or exact location of the metal target under the center of the coil.

a. Pinpointing:

To determine the exact location of the detected target, you should localize the place directly underneath the search coil that corresponds with the strongest sound heard. You should repeat the same procedure but change your position by 90°. The maximum sound registered corresponds with the center of the target. If there is too much background noise in the headphones to locate the target precisely, elevate the search coil from the ground while still directly over top of the target or reduce the **SENSI** to obtain an appropriate audible tone."

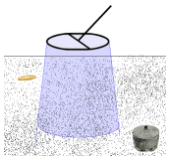
If you do not want to detect shallow small metal waste (which is hard to exclude only with **DISCRI** – **REJET** system), I advice that you maintain the coil at 10 to 15 cm (4 to 6 in) above the ground and readjust the **SENSI** knob positioning it within the first half of its range for "silent search", which will decrease the overall power of the detector making the search quieter (however, it is not recommended for more in-depth and precise detecting)."

Nicolas

3. SDA system (Adjustable Detection Spectrum):

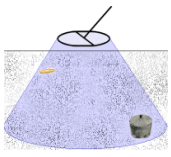
The SDA system (Adjustable Detection Spectrum system) permits a rapid search of extensive prospective areas without having to pass over the top of a target in order to detect it even if the said target is situated at a depth and 20 to 40 cm (8 to 16 in) away from the side of the coil (depends on the size of a target). The same **AJUSTE** knob, from the sound system, is used to regulate the amplitude of the detection spectrum. The moment the target is signaled, you only need to reduce the sound to a minimum, which will automatically reduce the amplitude of the detection spectrum in order to locate the target with higher precision. More sound corresponds with a larger perimeter of the detection spectrum; with less sound the perimeter of the detection spectrum is reduced. In order to determine the exact position of the object (pinpointing) it is possible to either reduce the sound (or eliminate completely), lower sensitivity with the **SENSI** knob or lift the search coil a few inches so that there is a signal only when the center of the coil is over top of the target. To better localize a target it is advised to carry out two cross-detections at 90° marking each detected feature of the object.

a. Fixed detection spectrum:



In this example, with a common VLF detector, we see that the detection spectrum is fixed and does not permit the localization of the gold coin on the left or the small silver jar on the right therefore these targets will be ignored if the detector does not pass over each one of them directly.

b. Adjustable detection spectrum of Deepers X5:



As it is seen in this image, a gold coin and a silver jar located within the detection spectrum perimeter, which is easily detected by the **Deepers X5** thanks to its SDA system. When the perimeter of the spectrum is reduced with the **AJUSTE** knob, it is possible to pinpoint the exact location of each object to ensure an accurate and efficient recovery.

Note: Higher audio-threshold (without hurting your hearing) allows for deeper detection. However, with lower audio-threshold, it reduces the penetration power by 10 to 15%.

4. Semiautomatic "Ground Sensor" System:

The **Deepers X5** is equipped with a semiautomatic "Ground Sensor" system that permits a search with a relatively easy maintenance of the audio-threshold chosen by the user, which in turn provides substantial stability to the detector. Once in awhile you can readjust the audio-threshold with the **AJUSTE** potentiometer. This system (patented by Deepers) was adopted by our engineers because it gives better results than manual or automatic adjustments, which were used on previous models manufactured by our company.

Recall: Before activating your detector, verify that the **AJUSTE** (10-turn) knob is centered either 5 full turns from either its maximum or minimum, in another words, it has to be positioned in the middle of its range (from this position it is easy to fine-tune the audio-threshold). The detector functions in the **DYNAMIC/STATIC tracking** mode (pinpointing) when the coil is over the already detected target, the sound will increase and then peak when the coil is directly over it which permits the user greater ease in pinpointing the target's exact location. If the sound is too strong for a precise localization, lift the search coil until you obtain a sharp sound directly over top of the target. You can also lower the sound with **AJUSTE** to obtain the same effect.

5. Stability:

Deepers X5 works efficiently to the maximum of its capabilities no matter the search program selected. When you activate the detector, allow it to stabilize over a period of 3 to 5 minutes that is needed to archive a thermal balance of the internal electronic components, which might require some minor readjustments afterwards. It is important to hold the coil parallel to the ground and never touching it, maintaining the coil at a height of approximately 10 to 15 cm (4 to 6 in). Adjust the audio-threshold until a slight hum is heard in the speaker or the headphones. In order to achieve higher stability from your detector during a search session, it is important to maintain the search coil at the same height from the surface of the ground. Recommended speed for the movement of the coil is 50 cm/s (20 in/sec).

Practice Exercises with DEEPERS X5

Choose a remote location that is not polluted or contaminated (a prairie, forest, or a field located far from the city). Make sure that there are no metals in the chosen area that would interfere with practicing. Dig some spaced out holes at least 1.5 m (5 ft) apart at depths of 10, 20, 35 and 65 cm (4, 8, 14 in and 2 ft) which is sufficient to begin with. Place a practice target in each of the holes. In the 10 cm (4 in) deep hole place a 10 cm (4 in) rusted nail, in the 20 cm (8 in) deep hole place a coin (gold, silver, or copper), in the 35 cm (14 in) deep hole place an old iron container 1 kg (35 oz), in the 65 cm (2 ft) deep hole place a 340 g (12 oz) beer or soda can (the universal target) or a small chest of the same dimensions. Cover them and firmly pack the dirt.

With **Deepers X5** you can easily locate these 4 targets and will also be able to make wonderful discoveries at even greater depths. Test all the available functions of the detector to learn more about each one. Do not forget to test the **DISCRI** system on the nail and scrap metals, to quickly learn its functions.

Important in detection:

"Sweep" the ground moving the coil left to right, maintaining it at a height of at least 10 cm (4 in) from the ground and advancing the search by 50 cm (20 in) with each step. Be careful to not lift the coil with your final movement (no weed chopping movements); the coil must always be

parallel to the ground at about the same height initially selected at the beginning of the search. This is the secret of preserving the stability of your detector and being able to recognize the signals that indicate the presence of a target.

Advice: Search around rocks, big trees, mountainous terrain, dirt roads, the brink of lakes, forests, ruins, old mines, wells, caverns, or any other place where if you were forced to hide something you could find at a later time; don't forget places that have already been searched "clean" by common detectors, below their depth capabilities there are many more treasures to discover! There are thousands of hidden treasures that are waiting to see the light of the day.

Power up the detector and allow it to stabilize for 3 to 5 minutes, this time is necessary for the electronic components to stabilize properly according to the temperature; readjust the sound according to your needs.

Search Coils of DEEPERS X5

1. Using the round search coil (included in the basic package):

This search coil of 20 cm (8 in) in diameter, of only 340 grams (12 oz) in weight, is fine for all types of prospection for up to 1 m (3.3 ft) in depth, depending on the nature of the ground and the volume of the target. In 50% of the cases, it is sufficient for the localization of sizable metal targets. This search coil is perfectly capable in detecting small objects, jewels or coins in up to 50 cm (20 in) of depth. For better performance and depth penetration, we highly advise the using the Hypersensitive coil.

2. Using the PLANAR DD Litz double coil (option):

This technologically advanced coil is manufactured with special Litz wires of the purest quality copper 99.9%. There are other companies that manufacture DD coils for Pulse Induction detectors, but only two in the entire world, Minelab and Deepers Detector, offer these coils made with **Litz wire**. These coils are valuable in searches involving mineralized or contaminated ground and especially in searches for gold nuggets, silver, coins and the localization of deeply buried metallic masses. In a very mineralized or shallow ground, the other search coils are not that efficient.

3. Using the Hypersensitive search coil (recommended option):

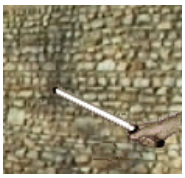
With the tubular Hypersensitive search coil you can detect large metallic masses up to a depth of 2.5 m (8.2 ft). It also will detect targets from up to 30 to 50 cm (12 to 20 in) from the side of the coil. It is not necessary to pass exactly over top of a target in order to detect it, which is very practical since in some cases a good deposit is found under a rock, or under a tree that grew over it. It is sufficient to pass the coil close to where the target is buried or alongside of the obstacles that deter other detectors from searching.

This Deepers' coil is the most powerful on the market and is convenient to use for any professional and serious searches. The open area in the center permits the user to continuously

observe the prospected ground. Made of great Deepers' quality material, proven to be very resistant, handles being bumped against rocks or trees, and is submersible under water (coil only, but not the electronic control box). The dimensions are 53 x 25 cm (21 x 10 in).

4. Using the Wand coil (option):

The **Deepers' Wand Coil** is a very efficient and precise tool in the inspection of old house walls, basements, crypts, caverns, warehouses, and subterranean areas. Normally, the detection within the walls is done in two phases: first, you pass a usual coil over the wall marking all of the targets (use chalk) in order to study the information before excavating. The second phase involves passing the wand coil, as a countermeasure, over the marked targets to trace the size and shape to avoid breaking the wall for little antique nails.



Once **the wand coil** locates a target, it emits a precise audible tone through the internal speaker or headphones for all metal objects such as nails, electrical cables, metal tubes, wires, which aids in determining the type of material, size and form of the target. Sometimes, the presence of 2 old nails, invisible to the eye, may cause a signal similar to a target of superior size, which leads to a pointless destruction of a wall. However, according to the audible tones you can recognize the type of the found target and determine its form: a nail or pipe; a round or rectangular object; a box, disguised coffer or hidden wall safe that may contain many valuable items. (Attention! Make sure that you know what is on the other side of a wall before excavation).

The wand coil is an indispensible tool in this type of search. It is directly connected to the electronic box like any other coil. Adjust the audio-threshold to a very low level. **The wand coil** held parallel to the wall (like in the picture), as close as possible so that the detection is more precise.

Note: When using the wand coil, position the **SENSI** knob between 6 and 8 o'clock.

5. Assembly and utilization of the Frame coil (option):

Suspension of the carry-belt when using the Frame Coil

Assemble the frame by aligning the tube connectors (all the red marks should be facing up before attaching the tubes), then insert the screws with the conical tips in the holes from underneath the frame. In case the cable on the inside obstructs the passage of the screw, the conical tip will push it aside and the screw will fully enter the hole. Do it with caution and patience to avoid damage to the equipment. Finally, moderately tighten the wing nuts to immobilize the structure.

The **Deepers X5 Frame coil** has three sets of straps. One of the straps you hold with your left hand by its **Foam Grip** and the other is placed on your shoulder and is attached to the belt (refer to the picture and the drawing). This arrangement allows for an easy access to the front control panel of the electronic box with the free hand and provides excellent proportional stability to the frame coil during the prospection.

After attaching the straps to the four corners of the frame with the wing nuts, adjust the length of the straps according to the user's height. The frame coil should be held parallel to the ground and elevated at (10 to 15 cm) 4 to 6 in. Connect the plug to the electronic box, turn it on and proceed to make the basic adjustments to the detector. The electronic device automatically adjusts to the type of search coil selected. In case you encounter an obstacle, on the surface of the ground, during detection (for example, a large rock), simply lift the frame to pass over the obstacle and afterwards return it to a normal height for detecting.

Note: Two people can operate the frame coil at one time: where one controls the electronic box and the other, situated approximately 1.5 m (5 ft) away on the left or the right, moves the frame coil over the ground surface (this search method is preferable to precisely locate deep targets). Experienced treasure hunters can easily operate the frame and the electronic box themselves.

a. Sensitivity adjustment with the frame coil:

When you use the frame coil, you should position the **SENSI** knob on a setting that offers more stability and efficiency according to the nature of the land (between the 6 and 8 o'clock position).

b. Indication of the detection depth with the frame coil:

A target of the size of a metal box or chest, measuring 80 x 50 cm (30 x 20 in) will be detected, in neutral ground, at depth of approximately 2.5 m (8.2 ft). A 100 liter (25 gallon) container at a depth of 3m (10 ft), and a target the size of a 55 gallon barrel at a depth of 3.5 m (12 ft) (a petroleum barrel).

All of this available options are manufactured by Latincom-Mex SA with exclusive license Deepers Detector/Chatillon

Maintenance

The **Deepers X5** does not need any special maintenance. To clean the device before storing it, use a damp cloth and then dry. Do not use detergent, alcohol, petroleum products, or chemicals. Do not submerge the electronic box in fluids.

Never store the detector and the battery pack in a hot, humid, or oxidizing place. Do not leave the detector in the car, exposed to the solar heat (pay attention to the internal temperature of the vehicle) which may present a risk of deterioration of the equipment overtime. If it rains during your treasure hunt, protect the electronic box and battery pack using plastic bags.

General Characteristics of DEEPERS X5

Electronique: Pulse Induction System – Horloge de sensibilité du délai en micro seconde (8 microsecondes réglée à son minimum (Point Rouge) – Fréquence de pulsion : de 450 à 950 pulsations par seconde (PPS ou Hertz) au choix de l'utilisateur - Boîtier en ABS haute résistance - Circuits intégrés et transistors spécialisés - Protection polarité d'entrée de charge ou d'alimentation – Auto régulation de l'alimentation à 2 étages – Ajustage du spectre de détection selon volume du fond sonore de base - Sensibilité de détection maxi pour les cibles en or et argent grâce au système Drop Gold/Silver - Discrimination ajustable. Rejet des cibles ferreuses importantes dans les 30 à 40 premiers centimètres de profondeur avec indication par Diode passant du vert au rouge et coupure du son – Système Ground Sensor permettant un réglage semi automatique du son au niveau près désiré (Semi Auto Tune). Système de détection dynamique/statique - Sound Effect : système synthétiseur permettant de mieux identifier les cibles douteuses ou profondes (Sound en 2) – Système sonore à deux voies, par haut-parleur interne ou au casque – Amplificateur automatique d'indication de cible – Indicateur de batterie faible par Diode rouge flash et signal sonore en fin de batterie - Auto ajustement selon la tête utilisée + switch de choix entre têtes normales et tête DD Litz ou DBC - Alimentation : Batterie interne rechargeable NIMH de 12 Volts 2 A - Protection par fusible (fusible de 4 ou 5 A recommandé). Consommation : moyenne 150/200 mA/H selon fréquence, tête utilisée et réglages de l'appareil. Unité électronique totalement tropicalisée. Bras télescopique Commando haute technologie (480 grammes, se plie en 63 cm). Tête standard ronde mono de 20 cm de diamètre ultra légère (340 grammes) pour recherche jusqu'à 1m de profondeur - Casque audio haute fidélité - Chargeur 110/240V de Type automatic Swiching Intelligent - Sac de transport du détecteur. Instructions d'utilisation en Français (Espagnol ou Anglais). Garantie des performances de détection en profondeur et du système de discrimination et rejet (voir la garantie jointe au détecteur). Garantie matériel : 12 mois pièces et main d'œuvre (les batteries le chargeur sont des éléments hors garantie). Transport aller et retour en cas de retour à nos ateliers pour réparation ou réglage, à la charge du client.
Document non contractuel: Deepers Detector et Latincom Electronique SA se réservent le droit de modifier parties des caractéristiques techniques annoncées notamment pour une amélioration de la performance de ses matériels.

International Security Regulations:

The **Deepers X5** is manufactured according to the American and European security regulations concerning electrical and electronic devices (EMC directive 89/336/EEC – Standard to which conformity is declared: EN-50081-1 / EN50082-1).

Latincom Club: As a member of the **Latincom Club**, you will regularly receive our newsletter, written to address the issues raised by the owners of the **Deepers' Detectors**. Those letters are highly informative, we advise to read them carefully to learn more.

Note: The Latincom-Mex SA manufacturer under exclusive license from Deepers Detectors Co., is not responsible for any consequences in relation to searches conducted with our equipment, in prohibited areas, archaeological sites, and military or high-risk zones, protected or private areas. It is the responsibility of the user to obtain permission where needed, know the rules and regulations governing metal detecting where using the equipment and never place yourself in an unsafe situation. We are not responsible for misuse of the equipment.

Deepers Detector Provides Performance and Quality Equipment

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