XP METAL DETECTORS

FMF Fast Multi Frequency

ICON

MADE IN FRANCE

GB

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XP METAL DETECTORS

Congratulations on purchasing your ICON

You have invested in a high-tech, extreme-performance multi-frequency metal detector, designed, developed, and manufactured in France. Once the coil, remote control, and headphones are paired, these components communicate with each other wirelessly and with no latency thanks to our proprietary radio protocol, giving the ICON exceptional precision.

With its waterproof remote control and S-shaped telescopic stem, the ICON delivers outstanding performance on all types of terrain and in all conditions, both on land and at sea, thanks to FMF® (Fast Multi Frequency), a simultaneous multi-frequency technology with fast signal response.

It is an ultra-lightweight and ergonomic metal detector built to last: backed by a 5-year parts and labor warranty, extendable to 10 years as an option, it can also be updated via USB. It is also compatible with the DEUS II ecosystem, allowing you to expand your setup over time by adding coils or accessories as your needs evolve.

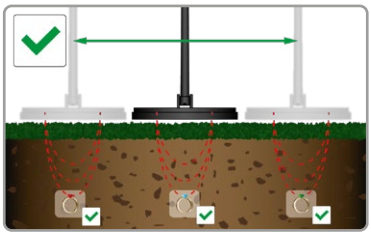
Your ICON is the result of 25 years of research and innovation in the field of metal detection.

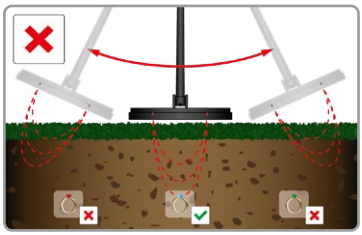
Welcome to an ICONic world,
welcome to the world of XP!

PRACTICAL INFORMATION

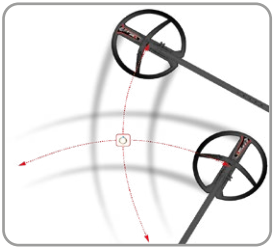
Tips Before Detecting

Metal detecting requires a certain amount of practice. Take time to become familiar with your equipment and how it operates by training on a suitable test area. To do so, we recommend gathering a selection of different objects, then choosing a relatively clean area with little metal trash and away from electromagnetic interference. Your garden is likely the worst place to start, as it usually contains too many metal objects and scraps. Place your objects on the ground and take the time to observe how your detector responds as the coil passes over each target. When detecting in the field, it is important to sweep the coil parallel to the ground, using broad movements and keeping it as close to the surface as possible without striking it.





Locating a target using crossed sweeps



If you are having trouble locating a target, sweep over the area where you first heard the signal and make a mental note of where the sound is strongest. Then move a quarter turn around that spot and repeat the same sweep, at 90° to the first one. This will help you narrow the target down to a precise area, at the intersection of the two sweeps, where the sound is strongest. Use crossing sweeps over the target. The strongest and highest-pitched audio signal indicates the center of the coil and therefore the target's position. You can also use the non-motion mode, which does not require coil movement to locate your target (see the PINPOINT chapter).

REMOTE CONTROL & SUPPORT ASSEMBLY

Positioning at the front or rear of the armrest

COIL ASSEMBLY

1. Insert the rubber washer inside the lower stem.
2. Position the lower stem on the coil.
3. Position the screw.
4. Add spacer and gently tighten.

Remote Control Overview

Target conductivity scale

USB-C Port access :
Hold + pull the cap (or the connector) gently

SELECTED SETTING
Blinking = Bottom line

CHANGE PROGRAM
1 sec. : Previous program
3 sec. : save user program

Adjusts the sensitivity or selected value

B.C: Ferrous Bottle cap zone and certain large ferrous targets

ON
OFF : 1 sec.
All-metal mode

OPTIONS
1 sec. in OPTIONS : Expert

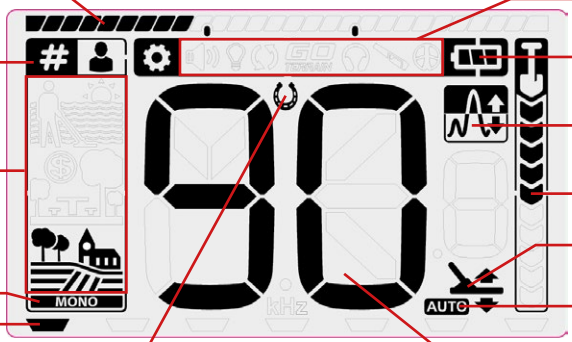
SETTINGS
1 sec. in SETTINGS : Expert

VALIDATE
Hold : Ground Value Acquisition

A press of ⚙ in SETTINGS returns you to the main screen, as does a press of ☰ in OPTIONS.

Shortcuts (long press)
- ⚙ Frequency Scan
- ☰ Pinpoint

Screen Overview



Target Conductivity / Discrimination / Notch

\# Factory Programs

User Programs

Program Display (see details on the next page)

Single-Frequency Mode

SELECTED SETTING
Expert settings = Blinking

All-metal mode

OPTIONS (see details on page 15)

Battery level
Coil / Remote Control / MI-6

Sensitivity

Target depth gauge

Ground Grab

Automatic Ground Tracking

Target ID (T. ID) Display.
SETTINGS and OPTIONS Display.

FACTORY PROGRAMS

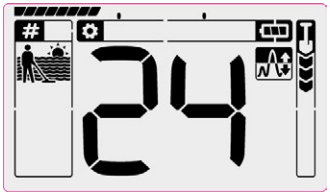
ICON ICONX

		Field	FIELD is a very generalist program that will be suitable for clean land such as pastures, as well as for plowed fields thanks to its removal of soil moisture.
		Trashy Field	TRASHY FIELD is a highly sensitive program, particularly suited to polluted and/or mineralized soils. It is especially well-suited for finding low conductive targets.
		Forest	FOREST is well suited to clean and low mineralized ground to reach large targets deep down, but also targets of more modest size.
		Park	PARK is ideal for searching for coins in parks and recreational areas that are generally polluted with targets such as aluminum foil or ferrous bottle caps.
		Wet Beach	WET BEACH program is suitable for all types of beaches, whether the sand is dry or wet. It is very sensitive to small targets without losing performance on large or deep ones.
		Beach & Surf	BEACH & SURF is a true all-terrain program dedicated to marine environments. It is very stable while maintaining good sensitivity on all types of targets.

Navigate through the programs with the # button, return to the previous program with a one-second press.

SETTINGS

Sensitivity



From main screen, press + or −

Determines the device's sensitivity level from 0 to 25.
Reduce the level in trashy areas or close to power lines, fences, radio-relay stations, etc.

Do not test your device indoors as there is considerable electromagnetic and metal interference in urban environments (EMI).

Settings Menu

Selected setting

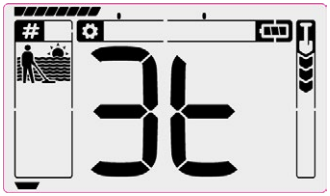
Adjusting the main detection settings.

Press ≡ to scroll through the settings.

Press ⚙ to return to the main screen.
(Automatic exit after 8 sec. of inactivity).

Tones

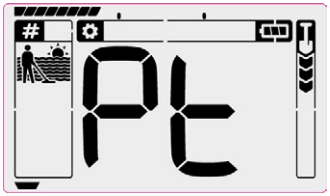
2 tones - 3 tones - 5 tones



Choose : 2 Tones - 3 Tones - 5 Tones using − or +.

Use the Multi-tones menu to sort targets into categories according to their conductivity, by assigning a specific audio tone to each category (low, medium, high, etc.). Take some time to become familiar with the Tone modes using different targets, such as iron, nails, aluminum foil, different coins, etc. The lowest pitched tone is assigned to iron. If you do not wish to hear it, select “Iron Volume” from the menu and reduce its volume to 0.

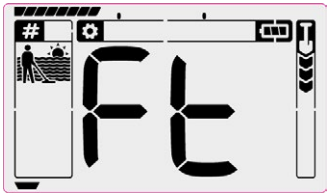
Pitch



Choose Pitch (Pt) using − or +.

Pitch mode does not take into account the target’s conductivity: The strength of the signal generates an audio sound that varies both in volume and height (audio frequency). This means that a more distant or smaller target will generate a low-pitched, weak sound whereas a closer target will generate a high-pitched, strong sound. Conversely, below the discri threshold, the closer the target is to the coil, the low-pitched it will sound. Pitch mode gives a dynamic signal. It also makes the detector appear more reactive. However, it does not fundamentally affect reactivity, just the audio.

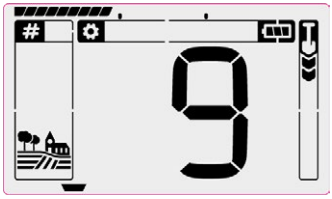
Full Tones



Choose Full Tones (Ft) using − or +.

Full Tones assigns tones specific to each target index in proportion to its conductivity.
The higher the conductivity index of a target, the higher the signal.
E.g. aluminum foil (TID 30) will generate a 350 Hz tone, whereas a large silver coin (TID 95) will generate a 900 Hz tone.

Discrimination



Adjust the Discrimination level from -6 to 99 using + or − (0 to 99 for beach programs).

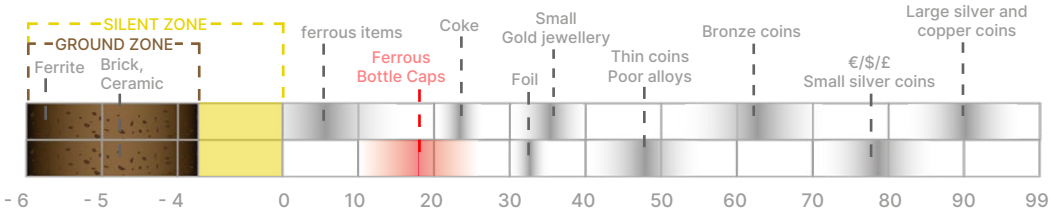
Increase the discrimination to gradually reject targets with a lower conductivity than the setting. Example :
- Adjust to 10 to reject items with a target ID lower than 10.
- Adjust to 40 to reject lower targets such as aluminum foil.

By default, the negative zone (-6 to 0) is silent because it covers the ground zone and very small ferrous targets. You can make it audible by lowering the discrimination below 0. In this case, all targets above this setting will sound like a good target and the low tone reserved for ferrous will become inoperative.

Display T.ID (Target Identification)

The ICON displays deep targets more precisely through its multi-frequency processing that removes a large proportion of the troublesome ground effects.

The metal target conductivity scale below from -6.4 to 99 will give you an idea of the display and discrimination range :



- Targets rejected by discrimination, such as ferrous objects, do not display an ID.
- Ferrous bottle caps can be easily identified because they display two segments on the conductivity bar, around 10 and 60–70.

Notch

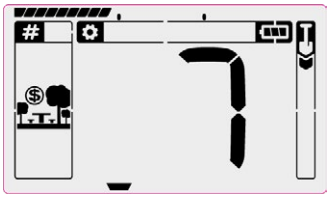
Select DISC setting and hold = (2 sec.)

The Notch complements the discrimination: it enables a «target window» to be rejected whereas discrimination rejects all targets below a selected threshold. For example, if you detect an undesirable target in the ground, you can decide simply to reject the corresponding conductivity group and continue to detect targets with a conductivity higher or lower than those in the rejected group. When a target displays 37, it also activates a segment in the Notch bar. Move the cursor with + and − to position it on the segment in question, then confirm with ✓. All targets with this conductivity will then be silent.

You can also sweep over an unwanted target and hold down the ✓ key until the target is no longer audible.

By accessing the Notch settings, the filter for ferrous bottle caps is activated, making them easier to identify. You can then reject them by activating segments 10, 10 to 15 or 10 to 20.

Iron Volume



Adjust Iron Volume with + or −.

Adjust the volume of the low-pitched tone which has a lower value than the discrimination setting, which normally means iron.

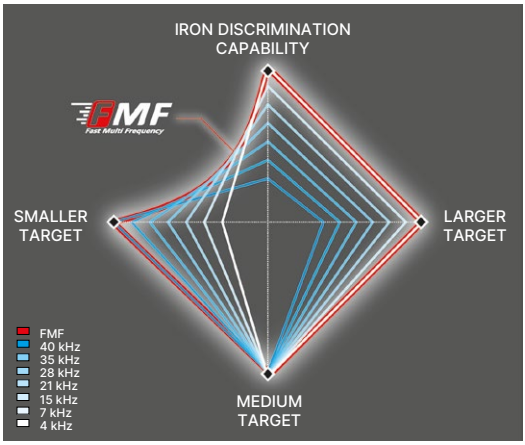
0 = cut-off low tones 10 = maximum low low tone level

FMF Multi-frequency

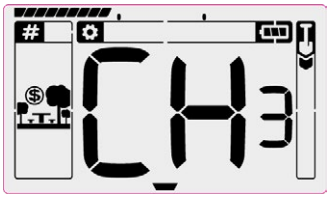
The ICON offers a selection of programs using a wide frequency range up to 40 kHz in order to best suit your terrain and optimize your searches.

All factory programs benefit from FMF multi-frequency technology. Some of them can also be used in single-frequency mode if the multi-frequency range is too compromised by a harsh electromagnetic environment or if you prefer to focus on a particular target category.

This graph illustrates the sensitivity and ferrous discrimination capability as a function of frequency, as well as the advantage of multi-frequency programs in covering a broader spectrum of targets.



Frequency shift

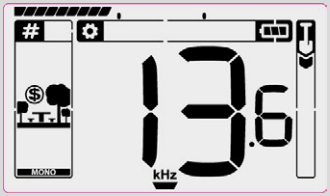


You can manually adjust the frequency range of each program using + or − if you hear too much interference.

You can also start an automatic frequency scan by pressing ⚙ or from the main screen by pressing ⚙ (3 seconds).

A frequency scan is automatically launched when the ICON is started.

Single-frequency



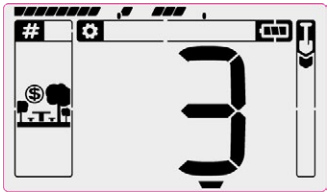
From one of the continental programs (excluding BEACH programs), select the FMF setting and then press = (2 sec).

Then adjust the working frequency with + or −

If you detect too much interference, you can start an automatic frequency scan from the main screen by pressing ⚙ (2 sec)

28 kHz frequency only available on the ICONX

Audio Type



Select the desired Audio Type with + or −.

The ICON and the ICONX offer a wide range of different tones and audio dynamics so you can find the audio profile that suits you best.

Audio Type	1	2	3	4 ⊠	5 ⊠	6 ⊠
Sound	PWM	SQUARE	PWM	PWM	SQUARE	PWM
Stereo Morphing		✓	✓		✓	✓
Audio Response	Standard	Standard	Standard	Enhanced	Enhanced	Enhanced

Sound

- **PWM** is the traditional XP sound. Dynamic and informative due to its harmonic richness, it varies according to the amplitude of the signal and therefore the distance to the target.
- **SQUARE** sound has a less rich, softer and fixed harmonic content, meaning that the harmonics do not vary according to the amplitude of the signal, only its volume changes in relation to the distance to the target.

Stereo Audio Morphing

Audio Morphing overlays a second sound only for surface targets to improve their recognition. A slight stereo chorus effect is also applied.

Audio Response

- The **standard** audio response allows you to easily appreciate the depth of your target: the closer it is, the higher the sound volume. Conversely, the further away it is, the lower the sound volume.
- The **enhanced** ⊠ audio response highlights distant targets by increasing their volume. The trade-off is that you hear a distant target and a nearby target in the same way. However, when combined with Audio Morphing, you recover the proximity information of targets.

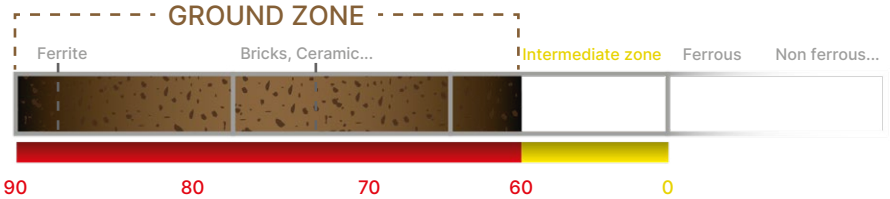
⊠ Only available on ICONX

Ground

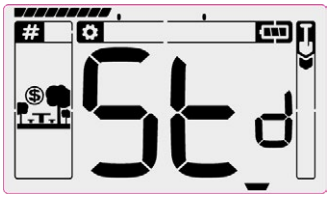
To begin, the default ground parameters are well-suited. Simply perform a GRAB (see next page) to calibrate the ground effect before you start detecting.

Soil mineralization can affect the detector efficiency. It can be of natural magnetic origin like iron oxides and ferrite, often linked to old human settlements.

Illustration of the soil zone in the inland programs:



On the coast, depending on the regions, mineralization can go from magnetic grade (black sands) to electrically conductive grade (salt water).



Select the desired operating mode with + or −.

ICON allows you to choose between STANDARD and PRO modes.

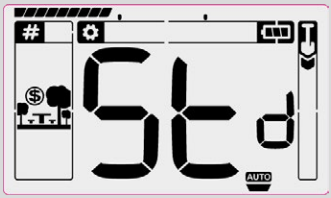
In STANDARD mode, the area above the Soil setting value is rejected, but a multi-frequency analysis is implemented to identify certain targets through mineralized soils. This is the default setting we recommend.

PRO mode behaves differently depending on the selected program :

- With a Continental program, the zone above the ground value grabbed is accepted, e.g. if you set the GROUND to 75 by grabbing, then all the ground with a value greater than 75 will react, for example : bricks (~ 78), ferrite and coil shocks (~ 88). This level is reserved for experts in order to locate the deepest signals that can be masked by the mineralization.
- With a Beach program, the entire ground area will be audible. When searching in magnetic ground such as black sand, deep targets may be masked because their values are similar to those of the soil. PRO mode allows you to accept medium tones generated by the ground, ferrite, meteorites, as well as distant targets that are usually masked.

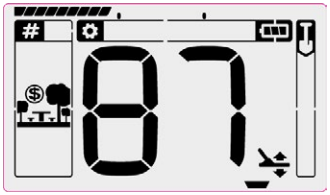
Note that this ground zone is often masked in the majority of detectors and can never be activated.

Ground tracking mode



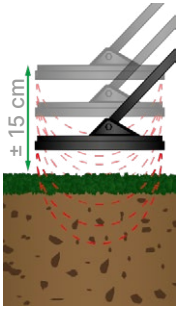
Select the GROUND setting and hold (2 sec.)
Tracking is an automatic ground correction mode. It questions the ground continuously to determine its average value. This mode can be useful if the ground mineralization is relatively uniform and changes slowly. This mode is not suitable in ground where mineralization has been generated by old human settlements due to the discrepancies in the ground effects. In just one sweep, a number of ground events in succession can be too varied, so that an average value will not be conclusive. Therefore, use the GRAB mode as a preference.

Grab

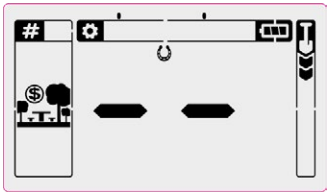


From the main screen, you can calibrate the ground effect by holding down while pumping the coil to the ground, until the audio signal from the ground attenuates and the value stabilizes.

A brief press on this key will display the ground value without initiating the Grabbing process.

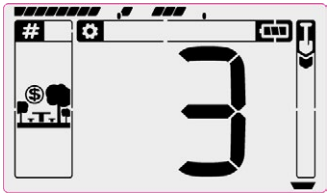


All-metal Mode



Pressing activates all-metal mode. This temporarily disables discrimination and active notch ranges, allowing you to hear the ground and all the metals it contains. It also provides a quick shortcut at any time for clearing an area or detecting a mix of ferrous and non-ferrous targets, for example.

Reactivity

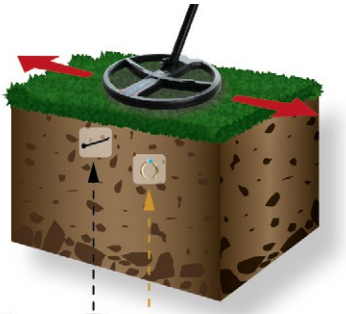


Adjust Reactivity with + or −.

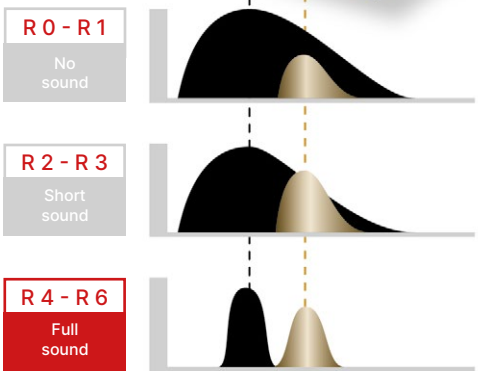
The ICON is a fast and selective detector! Reactivity is a vital setting that determines the detector's performance in terms of how quickly it analyzes the signal from detected objects and its ability to separate the signal response from two or several targets located close together. This is also known as Recovery speed. If the soil contains a great deal of iron, hot rocks or other mineralized debris, soil penetration can be drastically reduced as can the ability of a detector to locate non-ferrous targets next to ferrous targets. In these conditions, select a high degree of reactivity which will help to speed up the signal analysis. On the other hand, if the ground is «clean», it is better to reduce the Reactivity, to make the machine more sensitive to deep targets.
On a beach, as the targets are most often well away from each other, the low Reactivity levels like 0 or 1 will be very efficient. But if you encounter tricky conditions, such as polluted beaches made up of magnetic black sand or beaches with variable salinity, increase the Reactivity to 3 or 4, thereby becoming more selective and more stable, which will make it far easier for you to interpret the targets.

Recommended settings:

0✕ to 1	Large masses and coins, in ground not contaminated by ferrous items.
2 to 3	General use, ground with little iron contamination.
4 to 6✕	Iron-contaminated and/or mineralized ground.



E.g. Passing the coil over an iron object close to the surface then over a good metal target (ring).



With a low Reactivity level, the iron is detected for longer and completely hides the ring.

With a medium Reactivity level, you begin to detect the ring. The audio signal partially indicates the target.

A high Reactivity level enables you to distinguish the ring completely from the iron. The audio signal fully indicates the target.

In terms of pure performance, the greatest detection ranges are obtained with low reactivity levels. However, you will find more targets and will detect deeper on mineralized ground with medium or high reactivity levels. So do not just rely on performance in the air!

✕ Only available on ICON✕

Pinpoint (Target locating - Non-motion mode)

PINPOINT mode is used to operate the coil motionless above a target. It is useful for locating metal targets inside houses and cellars and is also widely used to follow underground metal pipes.

Access the PINPOINT screen, then update the detection threshold with a quick press (manual re-tune).

Return to the main screen with a short press.

Position the coil barely off the ground and to the side of the target. Press to calibrate the threshold.

Move over the target to locate it. The conductivity scale on the screen fills up as the target's signal increases. The strongest, highest-pitched signal indicates the target's position in the center of the coil.

To narrow the field of detection and improve the target location: Position the coil close to the target but not on the center. Press to re-tune the threshold then locate the target as in previous step.

Options menu

- Speaker volume
- Headphones volume
- Backlight
- Update
- Go Terrain mobile App
- Wireless headphones pairing
- MI-6 pairing
- Coil selection + pairing

Volume of speaker or + Wired headphones

Adjust the volume of the speaker or wired headphones with + or −.

If wired headphones (BH-02 or jack adapter) are connected, the speaker volume is unavailable, and vice versa.

Backlight

Adjust the screen backlight time with + or −.
Press (2 sec.) to adjust the backlight intensity from 0 to 20.

Update

Press and hold the button for 4 seconds to enter Update mode (UP).
Press to exit this mode without updating.

Software updates are possible via an internet connection using the USB-C interface. All information is available on our website: www.xpmetaldetectors.com.

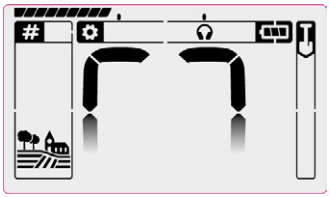
GO TERRAIN Go Terrain mode

With the GO TERRAIN smartphone app, receive real-time data from your wireless XP detector about the nature of the targets. Map a detected area using your smartphone's GPS and view all the targets detected along your routes. Share your routes and finds with your friends and family.

AUTO : Enables automatic transmission of targets to your smartphone.
PUSH : Activates manual transmission of targets to your smartphone (Long press until beep on the key when target is displayed on the screen).

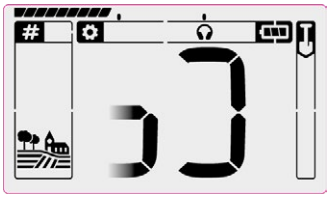
More information on our dedicated website:

Wireless headphones pairing



Select the wireless headphones pairing option. If no headphones are paired, «01» will flash on the screen.
Press the ⚙ button (4 seconds) to initiate pairing.
Then press and hold the − button on the wireless headphones for 8 seconds until you see the message «OK» on the remote control.

Research wireless headphones

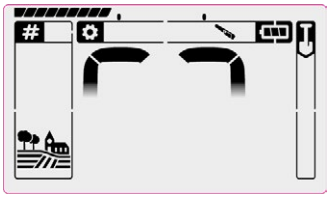


Once your headphones are paired, select the 🎧 option, then press and hold ⚙ and then + for 4 seconds.
The screen will display waves spreading. If your headphones are turned off, they will start ringing remotely within a 25-meter radius, even after several weeks!
Once you find them, press ⚙ on your remote.

Unpairing wireless headphones

Select 🎧, then press and hold ⚙ and then − for 4 seconds on your remote control.
The screen will then display DEL followed by OK.

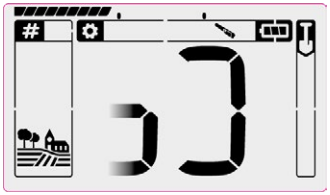
MI-6 pairing



Select . If no MI-6 is paired, «01» will flash on the screen.
Press ⚙ (4 sec.) to start pairing then press the MI-6 button for 8 seconds.
The screen will then display OK.

When pairing, the MI-6 automatically switches to program 7. This program will only work with the detector and headphones. In this program the MI-6 will not generate any sound or vibration through its own speaker (See MI-6 manual).

Research MI-6



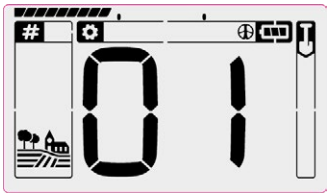
Once your Mi 6 is paired, select option , then press and hold ⚙ and then + for 4 seconds.
The screen will display waves spreading outwards.
The pinpointer will start ringing and flashing remotely within a 25-meter radius, even when switched off and even after several weeks!
Once located, press ⚙ and then the button on your Mi 6.

Unpairing MI-6

Select , then press and hold ⚙ and then − for 4 seconds.
The screen will then display DEL followed by OK.

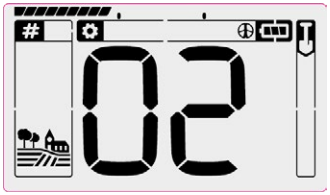
To use the MI-6 independently, select a program from 1 to 6 on the MI-6. Reminder: To change programs on the MI-6, press the button for 5 seconds; a melody will then indicate that you are entering «program selection.» Press the button as many times as the desired program number (e.g., 3 times for program 3).

Selecting a coil



Select the coil you want to use with + or −.
The coils are numbered in the order in which they were entered.

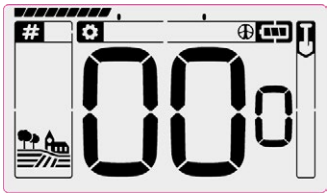
Pairing a coil



The ICON comes pre-paired with the original coil, so you don't need to do anything. However, if you purchase an additional coil, you will need to pair it the first time. After that, you can switch coils with a single click from the remote control.

Select the free slot that is flashing with + or −.
Then press ⚙ (4 sec) to enter serial number entry mode.

Automatic Pairing (recommended)

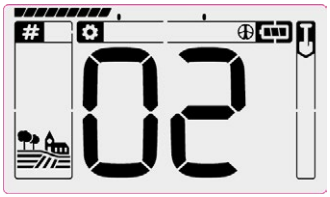


Once in serial number entry mode, put the coil on charge. The coil will then automatically send its serial number to the remote control.
'OK' is displayed, followed by the coil number. The coil is then paired and switches on.

Manual Pairing

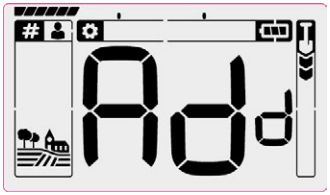
Once in serial number entry mode, select each character with + and − and press ✓ to move to the next one.
Once you have entered the 6 numbers, confirm again with ✓.
The coil is then paired and switches on.

Deleting a coil



Select the coil number to delete with + or −.
Press and hold ⚙ and then − for 4 seconds.
The screen will then display DEL followed by OK.

Programs



You can modify the factory programs as desired to create additional user programs (indicated by the icon).
The default factory programs will revert to their original values each time the remote control is turned on.

Modify the settings of your chosen program and then save by pressing # (3 sec).

To delete a user program, select it and then, press and hold # then − for 3 seconds. The screen will then display DEL followed by OK.

You can only create one user program for each factory program.

MI-6 (Connected Pinpointer)

The connected MI-6 Pinpointer allows the transmission of its audio signal, as well as the signal strength from the target to the ICON (also refer to the MI-6 manual).

- Visual indicator of proximity to the target.
- MI-6 Battery Level.
- Sound volume adjustment (at 10, the volume of the MI-6 is identical to that of the detector).

RETUNE: Recalibrate the MI-6 threshold regularly by pressing its button **very briefly**, keeping away from any metallic source.

Improve target location and reduce sensitivity on the fly: recalibrate near the object when it sounds. This will automatically reduce the detection zone and allow much more precise location. Restore full sensitivity by pressing briefly away from any metal. On mineralized ground, recalibrate on contact with the ground.

Wireless headphones

The WSA ST and WSAXLST are sophisticated wireless receiver headphones. Made in France by XP specifically for our detectors.

WSA ST
Foldable and lightweight

WSA XL ST
Foldable and insulating

- Once paired with the remote control or the WS6ST Master, they switch on and off automatically (In manual press - to switch on and + - to switch off the headphones). If no connection, they turn off after 5 minutes.
- Their volume can be adjusted directly using their + - buttons.

Battery level:
During charging, the LED on the headphones lights up. When charging is complete, the LED alternates between being on for 4 seconds and off for 4 seconds.
After the rapid flashing of the LED, the headphones indicate their battery level with 1 to 3 successive long flashes, depending on the battery status:

= 100% = 60% = 30%

Made in France by XP, the **BH-02** are IP68 waterproof bone conduction headphones rated for depths of up to 5 m, allowing you to dive with your ICON.

Why bone conduction headphones?

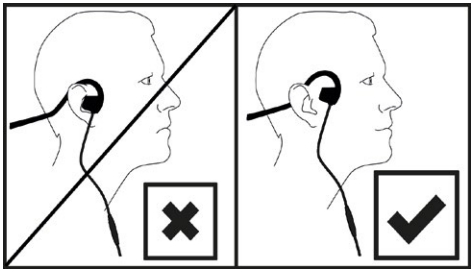
As the ear fills with water, hearing is often impaired underwater when using conventional waterproof headphones. **The BH-02 sits in front of the ears on the cheekbones and transmits sound directly to the inner ear through vibrations conducted by the bones, without using the eardrums.** Your ears therefore remain free. In murky or noisy water, you can also dive with earplugs to help prevent infection or simply to better isolate yourself from surrounding noise. You will still hear the sound perfectly through bone conduction while protecting your ears. These headphones can also be used on land, giving you the advantage of either remaining aware of your surroundings or, conversely, isolating yourself from noisy environments by using earplugs.

Warning: Use only earplugs specifically designed for diving and allowing pressure equalization. Never use standard earplugs, which may be dangerous for the ear canal while diving.

The BH-02 can also help hearing-impaired users perceive the vibrations generated by targets through the cochlea, or simply perceive the vibrations themselves, depending on the type of hearing impairment. Depending on the disorder, adjusting the audio frequencies toward lower frequencies (100 to 300 Hz) may further improve perception.

Audio Type (see page 10): Only SQUARE is active with the BH-02.

BH-02 Positioning



>100 dB!

Caution, these bone conduction headphones are **not designed to sit on the ears** but in front of them, on the cheekbones as indicated opposite.

These headphones can seriously damage your high-level hearing if sat on the ears. To limit the risk, the remote control sets the volume to 5 at every start-up.

BH-02 Storage and cleaning

BH-02 is supplied with a storage bracket.

The headphones can keep their shape to sit snugly on your cheekbones and thus transmit the sound better. It also avoids protruding and angular contact with your cheekbones !

After use in water, **thoroughly rinse the remote control with fresh water** while the BH-02 remains connected, then dry it. Once the connector has been removed, make sure **the cap is completely dry before closing it.**

Battery life

REMOTE CONTROL	Wireless Headphones Audio Output only	
Battery life	~ 11 h	
WSA ST / WSA^{XL}ST		
Battery life	~ 15 h	
ICON28 COIL	Multi-frequency	Single-Frequency
Battery life	~ 11 h	~ 10 à 18 h

The remote control's battery life decreases when using the speaker or BH-02 headphones.

Charging time

Remote control

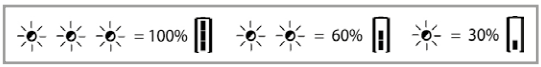
WSA ST / WSA^{XL}ST ~ 3 h

ICON28 coil

Coil LED flashing and meanings

- Coil on charge: Constant LED
- Coil fully charged: LED 4 seconds ON then 4 seconds OFF (cycle).
- Switching on: Rapid flashes followed by three to 1 long flashes depending on battery level*.
- In operation: One flash per second
- On stand-by: one flash every four seconds
- On deep stand-by seriously discharged: one flash every thirty seconds
- Switching off: three to one long flashes depending on battery level*
- When switching on the MI-6 pinpointer: the coil LED flashes rapidly.

The blinking LED in standby mode does not affect battery life.

* 

Charge

The coil, remote control and headphones are powered by a Lithium battery (LiPo). Please use a USB power supply that can charge the three components simultaneously using the lead-output cable.

The ICON can be charged by any USB mains unit 5 V / 1 A minimum. Watch out for the quality of the charger and counterfeits, use a certified model from a reputable brand carrying the following certification symbols:

Under no circumstances can XPLORER (XP METAL DETECTORS) be held liable for damage or loss generated by using a defective charger or failing to comply with the certification standards in force.

- Connect the USB plug to the power supply.
- Connect the special connector to the coil, and the 2 USB-C to the headphones (optional) and the remote control.

The coil is charged using the supplied 3-output cable. Slide the connector along the coil grooves until it reaches the stop, as shown below:

Lithium-polymer (LiPo) battery lifespan

A well-maintained LiPo battery can last ten years in your XP detector !

The Lithium Polymer batteries (LiPo) are designed to withstand hundreds of charges, thereby generating significant battery savings. As a guide, a ten-year lifetime can be envisaged when they are used correctly on a weekly basis.

Battery lifespan is in your hands !

To extend the life of your batteries well beyond five years, do not store them either flat or fully charged for a long time. Keep them half charged between 40 and 80%.
If you do not use your detector for several months, check them every two months by letting them go flat and then charging them to 40-80%.

Replacing batteries

The batteries in the wireless headphones and in the remote control (battery ref.: ZN452233 - XP ref.: BAT-RCST-001) are easy to replace: unscrew the rear/lower cover of the headphones or the remote control, unclip the battery, replace it, then screw the cover back on, taking care not to damage the seals.

⚠ We highly recommend that you go through an authorized XP dealer to replace any of the detector's batteries. Breakages or defects (sealing, ...) caused by changing a battery or opening any part of the detector will void the XP warranty.

BATTERY REPLACEMENT (battery ref.: ZN651365 - XP ref.: IC-D28-F0-001): For waterproofing reasons, the detection coil battery is sealed. Its replacement requires return to our service department or to an XP distributor.

Safety precautions

Acceptable ambient temperature during charging: From 0°C to + 40°C maximum.
Recommended storage temperature: 25°C.

Batteries:

- The batteries are fitted with internal protection systems which shield them from extreme overloads and discharges. They must not be dismantled or short-circuited, which is dangerous and could destroy the protection systems, explode or cause the batteries to ignite.
- Do not leave batteries on charge unnecessarily and disconnect the power adaptor when the charge cycle is complete or after 3 hrs.
- If you notice any perforation, odour or other anomaly, please return the battery to the retailer in a sealed plastic bag and do not try to charge again (risk of destroying the protection systems, explosion or causing the batteries to ignite).
- Never dispose of lithium batteries with your household waste: return them to your XP retailer or take them to a designated collection point.
- Do not place the batteries near heat sources and never throw them onto a fire.
- Never perforate the battery cover or try to weld/solder the battery.
- Risk of explosion if battery is incorrectly replaced. Replacing the battery with another of the incorrect type can lead to a risk of explosion. Only use LiPo batteries supplied by XP.
- If salt water gets into the battery connector, rinse it with clean water and let it dry before charging.
- If you notice abnormal overheating of components on charge, disconnect the mains unit immediately and do not try to charge further.

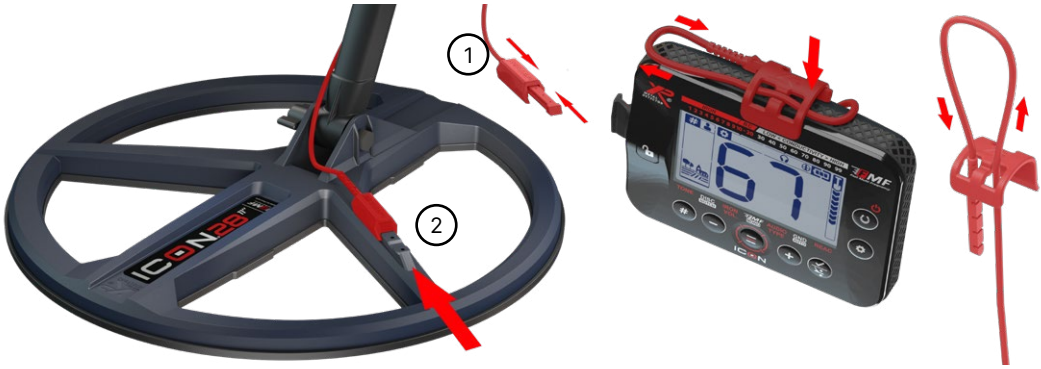
Power adaptor

- Always connect your power adaptor in an accessible, visible place to ensure that it can be unplugged quickly in the event of overheating or other problems.
- Do not charge unattended close to inflammable parts.
- The power adaptor is only designed for indoor use and should not be exposed to water or humidity.
- Do not charge the devices during a thunderstorm and unplug the power adaptor from the supply.
- XP only guarantees electrical safety with a certified USB mains unit :

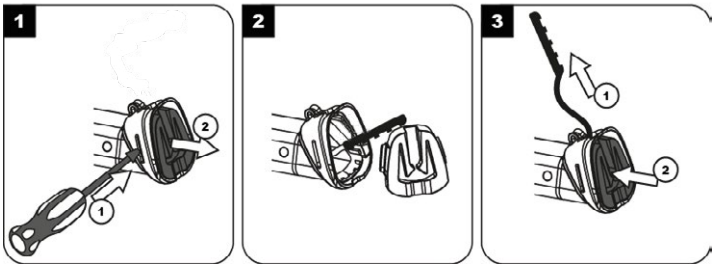
Xplorer cannot be held liable for any consequences arising from a failure to comply with the precautions for use.

Waveguide

The waveguide ensures an optimal radio link between the coil and the remote control when the ICON is submerged. It is not necessary if the coil is immersed only a few centimetres deep.
The waveguide consists of:
- 1 coaxial cable
- 1 slider for attaching the end of the waveguide cable to the coil
- 1 plastic clip for attaching the cable to the remote control



You can either wrap the waveguide around the stem or route it inside the stem by inserting it through the oblong hole behind the lower stem and then bringing it out through the remote control mount, as shown below.



Wading and diving

The ICON is designed using robust materials that are resistant to saline environments. For example, the connectors, screws and coil charging contacts are made of marine-grade stainless steel. However, as with any diving equipment, certain precautions are essential:

⚠ **Rinse your detector with fresh water after use on the beach or in salt water**, and do so before disconnecting the connector or opening the cap.

⚠ **Dry the USB-C connector cap thoroughly before closing it, to prevent salt water or sand from entering the remote control** or BH-02 connector, as this could cause irreversible damage to your ICON.

⚠ **Never leave the remote control inside a car in direct sunlight**, especially if the BH-02 or the jack adapter is connected, as this may deform the speaker.

Original cap = 1.5 m - 5 ft / 30 min max
This is the cap attached to your remote control for **normal land use** or immersion up to 1.5 m - 5 ft. A waterproof membrane allows air to pass through while resisting depths of up to 1.5 m - 5 ft. It equalizes internal pressure to prevent the remote control from swelling during changes in temperature or altitude.

BH-02 headphones with their waterproof connector = 5 m - 16 ft max
Required for **underwater use at depths greater than 1.5 m - 5 ft**. On land, this connector does not equalize internal pressure, which may cause the flexible keypad to bulge or the speaker to become pressed inward during temperature changes. If this happens and you notice poor speaker sound quality, disconnect the BH-02 and blow into the speaker grille with your mouth pressed against it to push the speaker back out.

To lock the remote control keypad while diving, press and hold the ⚙ and − buttons for 12 seconds.
Unlock it by pressing the flashing buttons.

PROBLEMS & SOLUTIONS

You become aware of abnormal performance, instability, false signals or interference, for no apparent reason

CAUSES	SOLUTIONS
The machine is over sensitive.	Lower the sensitivity.
You are in a high EMI zone with a great deal of interference (high-voltage power lines, electric transformer, electric fence).	Shift frequency with a frequency scan, select single-frequency operation, lower the sensitivity. Move to a different zone.
There is a storm nearby and the electromagnetic discharges of lightning appears to be interfering with the detector.	Switch off and wait for the storm to pass. Never detect in a lightning storm.
You are close to other working metal detectors.	Shift frequency with a frequency scan, select single-frequency operation, lower the sensitivity. Move away.
Soil effects are adjusted incorrectly.	Adjust ground value (GRAB).
The ground is heavily infested with iron and other metals.	Find a less infested place, increase reactivity, reduce sensitivity. Do not practise in your garden !

The coil does not switch on, unlike the remote control and the headphones

CAUSES	SOLUTIONS
You have the wrong coil selected in the menu ⊕ pairing.	Select the correct coil number from the menu.
The serial number of the coil that you have entered in the remote control was incorrect or was changed inadvertently.	Check the coil serial number entered or pair it again automatically (See chapter on coil pairing).
The battery is discharged.	Recharge it. - check charging source.
The coil is defective.	Contact your reseller.

There is no detection sound in the headphones despite them being switched on (and pressing the buttons generates an audible beep)

CAUSES	SOLUTIONS
you may have chosen an incorrect coil in ⊕ Pairing.	Select the correct coil.
The wireless headphones have not been paired with the remote control.	Pair them in 🎧 option. If the message «KO» is displayed during pairing, update your headphones and remote control to the same version (updater.xpmetaldetectors.com)

There is no sound in the headphones when passing over a target and pressing the buttons generates no audible beep

CAUSES	SOLUTIONS
The backphones are not working.	The module has come away slightly from the headband. Clip it back in. Or Change headband, it is easy to replace.
The module maybe faulty.	Contact your reseller.

Radio

Link	XP ultra-low latency wireless digital protocol (~4 ms) - 36 automatic channels	
Radio Frequency specification	FREQUENCY	POWER
Radio link	2.40 to 2.48 GHz	<2.11 dBm
Detection	3.9 to 135.7 KHz	<72dBµA/m at 10m

Features/Settings

	ICON	ICON X
Detection frequencies	Simultaneous Multi Frequency (40dBµA/m at 10m) - automatic and manual frequency shift	
	2 single frequencies (4 and 14 kHz)	3 single frequencies (4, 14 and 28 kHz)
Sensitivity	25 levels	
Audio Types	PWM and SQUARE with Stereo audio morphing.	
	3 settings with standard audio curve	6 settings (including enhanced audio curve)
Audio Volume	10 levels for each ouput	
Reactivity	5 levels (1/2/3/4/5)	7 levels (0/1/2/3/4/5/6)
Iron Volume	11 levels	
Multi Tones	Pitch, 2, 3, 5 tones, Full Tones	
Ground balance	Grab, Tracking, Standard and Pro modes	
Multi-Notch	Yes - 28 segments	
Non-motion mode - Pinpoint	Yes - Audio and visual	
Discrimination	Audio and visual - ferrous bottle cap rejection and automatic Silencer - All-metal mode	
	Resolution : 1 point (ferrous area)	Resolution : 0.5 point (ferrous area)
Programs	3 factory + 3 user	6 factory + 6 user
Audio Outputs	Wireless headphones + automatic output selection (speaker, wired headphones, BH-02)	
Connectivity	MI-6 pinpointer and Go Terrain app	

General Features

Display screen	Sunlight-readable LCD, adjustable low-power backlight
Software updates	Yes, by USB/Internet connection
Optional wireless headphones	Compatible with DEUS II FMF ecosystem headphones (WSA ST - WSA^{XL}ST - etc...)
Optional wireless coils	Compatible with DEUS II FMF ecosystem coils, waterproof to 20 m / 66 ft: D22FMF (22.5 cm / 9") - DELLFMFHP (24 × 13 cm / 9.5 × 5", HF2) - D28FMF (28 cm / 11") - D3428FMF (34 × 28 cm / 13 × 11")
Stem	Fully telescopic S-shaped - 58 cm / 22.8" folded - 130 cm / 51.2" extended
Batteries	Remote and wireless headphones : 365 mAh - Coil : 700 mAh.
Remote and wireless headphones battery life	~11h depending on the audio output.
Coil battery life	~11h
Charging time	~3h
Total detector weight with batteries	~830g for ICON X (~710g without remote)
Stem weight	~285g (S-Telescopic lite) - ~260g (S-Telescopic lite carbon)
Remote weight with battery	~110g
Headphone weight with battery	WSA ST : ~72g - WSA^{XL}ST : ~250g
Coil weight	ICON28 : ~370g (with coil cover included)
Operating and charging T°	0 to +40°C (32 to 104°F)
Recommended storage T°	25°C (77°F)
Waterproofing	IP68 - 5 m / 16 ft (BH-02 bone-conduction headphones and waveguide required)
Warranty	5-year parts and labour warranty + optional 5-year warranty extension. Batteries and accessories: 2 years
Patents	US 7940049 B2 - EP 1990658 B1 - US 12,248,113 B2 - EP 4377722 - patents pending

ACCESSORIES AND OPTION

ICON-RC

ICONX-RC

D28FMFIC

DELLFMFHP
(HF2 FMF)

D22FMF
(FMF22)

D28FMF
(FMF28)

D34FMF
(FMF3428)

WSAST

WSAXLST

WS6ST

BH-02

FX-03

MI-6
(XPMI61)

MI-4
(XPMI61)

LANYARD

ICON COVER

WAVE GUIDE

CLIP JACK
ADAPTOR ST

ICON / JACK
ADAPTOR

S-TELESCOPIC LITE CARBON STEM
D044LITE-BC

S-TELESCOPIC LITE STEM
D044LITE-B

S-TELESCOPIC DIVE STEM
D044DIVE

XP CASE

XP BACKPACK
280

XP BACKPACK
240

XP FINDS POUCH

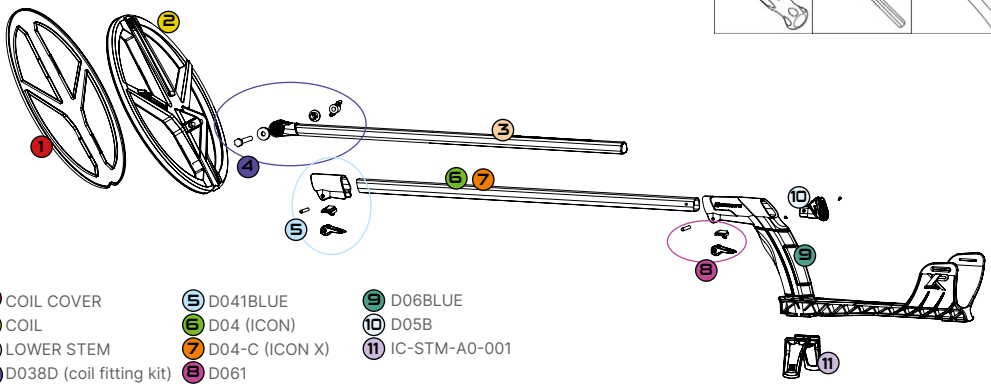
GOLD PAN
STARTER

GOLD PAN
PREMIUM

GOLD BATEA

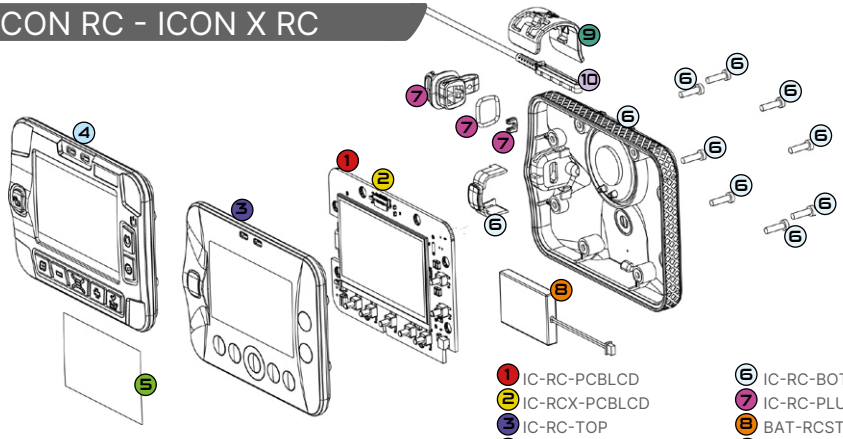
GOLD SLUICE
VS1

TELESCOPIC STEM



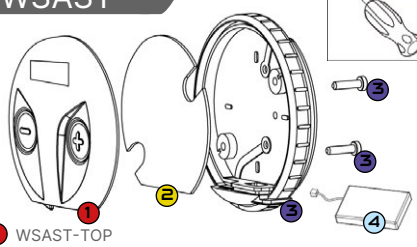
1. COIL COVER
2. COIL
3. LOWER STEM
4. D038D (coil fitting kit)
5. D041BLUE
6. D04 (ICON)
7. D04-C (ICON X)
8. D061
9. D06BLUE
10. D05B
11. IC-STM-A0-001

ICON RC - ICON X RC



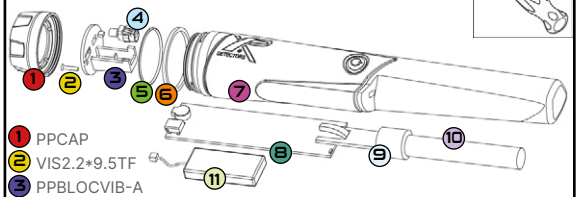
1. IC-RC-PCBLCD
2. IC-RCX-PCBLCD
3. IC-RC-TOP
4. IC-RCX-TOP
5. IC-RC-LCD
6. IC-RC-BOTTOM
7. IC-RC-PLUG
8. BAT-RCST-001
9. IC-GEN-A0-001
10. IC-GEN-E0-003

WSAST



1. WSAST-TOP
2. WSAST-PCB (without battery)
3. WSAST-BACK
4. BAT-RCST-001 (battery)

MI-6 / MI-4



1. PPCAP
2. VIS2.2*9.5TF
3. PPBLOCVIB-A
4. PPVIBR
5. PPJTOR
6. PPJPLAT-A
7. PP-S-BODY MI-6 / MI-4
8. PP-S-CIRCUIT MI6 / MI4 (without battery)
9. PPBLOCFER
10. PPFER
11. D088M-WTUBE (battery)

FACTORY & CUSTOM PROGRAM SPECIFICATIONS

		FIELD		TRASHY FIELD		FOREST		PARK		WET BEACH		BEACH & SURF	
ICON		✓	👤					✓	👤			✓	👤
ICONX		✓	👤	✓	👤	✓	👤	✓	👤	✓	👤	✓	👤
MENU													
Sensitivity	0 to 25	24		24		24		24		24		24	
2 tones		-		-		✓		-		-		-	
3 tones		✓		✓		-		✓		-		-	
5 tones		-		-		-		-		-		-	
Pitch		-		-		-		-		✓		✓	
Full Tones		-		-		-		-		-		-	
Discri	-6 to 99	8		7		7		8		7		7	
Notch	OFF or 00 to 99	OFF		25		OFF		10-35		10		10	
Iron Volume	0 to 10	8		8		8		8		8		8	
Frequency	FMF / Mono	FMF		FMF		FMF		FMF		FMF		FMF	
Audio Type	1 to 6	3		1		3		1		5		2	
Ground	Std / Exp	Std		Std		Std		Std		Std		Std	
Tracking	ON/OFF	OFF		OFF		OFF		OFF		OFF		OFF	
Reactivity	0 to 6	2		3		2		3		1		2	

RECOMMENDATIONS / LEGISLATION

Detecting is an activity that, like most leisure activities, requires a few general guidelines. These recommendations will allow everyone to enjoy their hobby to the full while respecting laws, locations, environment and people.
Respect the law!

- **Find out about existing metal detecting laws** in your country.
- **Ask permission from the owner** or custodian of the land before searching.
- **Respect the natural environment** in which you are searching and the locations you will find yourself crossing.
- **Fill your holes systematically** so as to leave the locations in the state in which you found them.
- **Keep any waste** you have been able to extract with you and dispose of it correctly.
- **Avoid searching in combat zones of** recent wars. Be extremely cautious of any suspicious object that may look like ammunition, grenade, mine, shell or bomb etc.
- **Report any suspicious object** that you have discovered to the relevant authorities.

Remember that you are a detecting ambassador, it is important that you represent us in the correct way.

DECLARATION OF COMPLIANCE EU - FCC - IC - UKCA

This declaration is made under the responsibility of the manufacturer :

SARL XPLORER - 8 rue du Développement – F-31320 CASTANET-TOLOSAN

We, XPLORER, hereby certify that this detector complies with the essential requirements of European Directives RED 2014/53/EU, SECURITY 2014/35/EU and EMC 2014/30/EU which aim to harmonize legislation in Member States on the use of the radio spectrum, electromagnetic compatibility and electrical safety. The device's compliance was assessed in accordance with the essential requirements of this Directive and the harmonized standards:

• EMF: EN 62311 :2008
• DETECTION EU: ETSI EN 303454 V1.1.1
• RADIO EU: EN 300440 v2.1.1 ; ETSI EG 203367 V1.1.1
• RADIO USA: FCC 47 CFR part 15: 2019
• RADIO CANADA: RSS-210_Issue 9: 08/2016 (Amended 2017)
• SAFETY: IEC 60950-1: 12/2005/AC1: 2006/A1: 2009/A2: 2013; IEC 62368-1: 2014
• EMC: ETSI EN 301489-1:2019 V2.2.3;ETSI EN 301489-9: 2019 V2.1.1; Draft ETSI EN 301489-17: 2019 V3.2.2

A copy of the certificate can be supplied upon request from:
SARL XPLORER - 8 rue du Développement – F-31320 CASTANET-TOLOSAN

FCC: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

IC : This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Safety relating to electromagnetic radio waves

This product complies with standards for user safety with regard to electromagnetic waves. The strength of the radio signals used is considerably weaker and on a much smaller scale than those emitted by mobile telephones (2,000 to 4,000 times weaker). Moreover, when the complete system is used, the audio headphones only act as a passive radio receiver.

Recycling of electrical and electronic waste in the European Union and the other countries/regions in accordance with selective waste sorting procedures

If this symbol is displayed on the product or its packaging, it means that the product must not be disposed of with your household waste. It must be taken to a designated collection point for recycling electrical and electronic waste. This selective waste sorting and recycling helps to preserve natural resources and avoid any potential risks for human health and the environment that could result from inappropriate scrapping, due to the possible presence of hazardous substances in the electric and electronic equipment.

For more information on places for disposing of electrical waste, please contact the shop where you purchased this product.

Alternatively you can return it to your supplier, or directly to XP. The same is true for the lithium batteries which must be recycled appropriately.

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PRECAUTIONS FOR USE

The ICON is a sensitive piece of electrical equipment, designed to be as robust as possible. Despite this, it is important to take care of it and exercise certain precautions in order to prolong its life :

- Do not store your device for long periods with flat batteries.
- Ideally you should discharge/recharge the batteries at least once a month and if possible store them at 40 to 80% charged to extend their lifetime beyond five years.
- Do not expose your detector to extreme temperatures, particularly inside a car in full sun.
- Do not expose your detector to the sun without reason when it is not being used.
- The device is intended for outdoor use under normal conditions, but it is not designed for permanent or fixed installation. It should be stored indoors when not in use for extended periods.
- This device is intended for use in typical outdoor environments. However, it is recommended to avoid operating the system during heavy rain or extreme weather conditions (e.g., heavy precipitation, snow, storms)
- Use the storage case that is supplied with the headphones and never carry them at the bottom of a bag without protection.
- Use the case that is supplied with the remote control to protect it in adverse conditions and when the detector is stored away.
- Depending on how you use your detector, it may be advisable to clean its elements regularly. A damp cloth can be used to clean the non-waterproof parts
- In a salt environment, rinsing with fresh water is mandatory for the remote control, coil and BH-02 headphone. Do not use solvent or alcohol.
- After use, remove any dirt from the stem's locking mechanisms.
- The equipment must be recharged using a SELV LPS power supply.

Warning: The accessories delivered with this detector can vary; similarly, the menus and certain functionalities described in this manual can differ slightly from the purchased product.

This detector is not suitable for searching for hazardous targets such as munitions, weapons, mines, military equipment, etc.

XP ICON - 5 YEARS LIMITED WARRANTY - REGISTRATION

In addition to the legal warranty resulting from Articles 1641 et seq. of the Civil Code and Articles L. 211-1 et seq. of the Consumer Code, due in any case on defects and hidden faults, XP provides this contractual warranty for the ICON detector for five years with effect from the date of purchase by the initial purchaser provided it is registered on the website updater.xpmetaldetectors.com

This warranty does not cover :
• Breakage caused by falls, impacts or accidental damage
• Damage caused by abnormal use or resulting from non-compliance with the conditions of use stipulated in the device's instructions.
• Using without coil cover, or using defective coil cover.
• Alteration of the electronic circuit by any unauthorized person.
• Corrosion of electronic circuits, due to water ingress.
• A reduction in battery life due to battery ageing.
• Breakage of cables or wires.

Spare parts are not covered by the 5 year warranty:
• Coil cover, headphone earpieces, foams, coil bolts and fittings, hipmount and transport case, etc. (These parts must be replaced in case of wear and tear, in such a way to avoid damaging the device).
• Batteries and connectors carry a two-year warranty.

In the event of any fault or malfunction please contact your XP dealer for advice. Any part needing to be returned to the dealer or the distributor must be accompanied by a note explaining the fault. Carriage/shipping costs are the customer's responsibility. Proof of Purchase is required to make a claim under this warranty. If a faulty device has been replaced by a new or reconditioned one, the warranty will continue from the original purchase date.

XP and ICON are trademarks of Sarl Xplorer.
Xplorer reserves the right to modify its detectors' characteristics or specifications without notice..

Contacts
Site : www.xpmetaldetectors.com
e-mail : contact@xpmetaldetectors-media.com

SARL XPLORER
8 rue du développement
F-31320 CASTANET TOLOSAN
Tel : 05.34.43.10.52
Fax : 05.34.43.10.53

WARRANTY EXTENSION TO 10 YEARS

XP also offers a warranty extension to 10 years for the main parts of the ICON (remote control, search coil and wireless headphones).
Please contact your dealer for more information or visit store.xpmetaldetectors.com.

Battery specifications for air transport

	Qty.	Type	Power	Weight
ICON28 Coil	1	700 mAh	2.60 watts/hour	12 g
ICON / ICON X remote	1	365 mAh	1.35 watts/hour	6.9 g
WSAST / WSAXL ST	1	365 mAh	1.35 watts/hour	6.9 g
MI-4 / MI-6 Pinpointer	1	630 mAh	2.30 watts/hour	11 g

After charging your device !

Switch ON

1 Turn on the remote control by pressing the ⏻ button

2 Select the program suited to your detecting site with #

3 Access the options with ⚙ then adjust the speaker volume with + or −

NOTE: Headphones paired with the remote control will switch on and off automatically.

The LED flashes to indicate that the coil is waking up, then continues flashing every second.

Switch OFF

Press and hold ⏻ on the remote control for 2 seconds.

The headphones switch off automatically (otherwise, force them off by pressing − and +).

If you want to go further and adjust the main detection settings:

Press ☰. Scroll through the settings, then adjust them with + ou −.

Press ⚙ to return to the home screen.