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UNDERSEA DETECTION EQUIPMENT

# DX-300

# DIVER HELD

# MAGNETOMETER



# Operating Instructions



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*Issue date*  
24th June 2014

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## Introduction

The AQUASCAN name has been established for more than two decades and conveys the message of underwater detection excellence using Proton Magnetometers and Pulse Induction Metal Detectors (Aquapulse).

The newest addition to the AQUASCAN line of underwater detection equipment is the AQUASCAN DX-300 DIVER HELD MAGNETOMETER.

The DX-300 is a hand-held gradient magnetometer, utilizing fluxgate technology. It is ideally suited for an array of search applications, both on land or underwater.

## Applications

**Wreckage** – The DX-300 is the ideal tool for the location of buried ferrous wreck material. There are unlimited applications in all types of archaeological wreck investigation. It is the ideal diver-operated tool to locate items buried deep in sediment. It allows accurate mapping of all buried ferrous material prior to seabed disturbance. It can also detect the presence of some forms of ballast material, which in many cases gives a magnetic response.

**Pipes and Cables** – The DX-300 is also ideal for locating and mapping pipes and armoured cables buried in sediment. It can detect at burial depths of between 1 metre and 7 metres, dependent on the diameter of the pipe or cable.

**E.O.D & Security** – There are unlimited applications in all types of underwater investigation for the presence of ordinance, weapons etc.

**Salvage** – The DX-300 is a useful tool for the successful recovery of lost items either in low visibility or where lost in soft sediment. It is the ideal tool to complement surface operated searching. The tool most requested by users of boat-towed magnetometers is a diver-held device to help pinpoint magnetometer targets located with a conventional towed-magnetometer. The DX-300 fills this need extremely well.

## Example of appropriate use of the DX-300

The following is an example of an application where the DX-300 might be utilised with great success and great savings in time and effort.

A magnetometer target is found with a boat-towed system in 35 feet of water. The visibility is minimal and, upon examination by a diver, the bottom is found to be flat sand and no target could be detected within the range of a metal detector. The DX-300 is taken to the bottom by the diver, after the unit is switched on and set to Hi sensitivity, the diver scans the identified area in a series of straight lines radiating out from the initial seabed marker and notices an increase in the audio frequency in one specific direction. Moving slowly in the direction where the audio output of the DX-300 increased, the diver notes where the peak response occurs; using the range

switches to desensitise as necessary to note the point where the peak response occurs. The diver next determines if a larger peak response can be on a line that intersects at 90 degrees to the original search direction, this will assist in determine the exact centre of the target and to an extent the size and shape of the target. The above described technique using steady straight line searching and use of the range switches to reduce the sensitivity where necessary to determine the true centre of the response will pay dividends in terms of diver bottom time and in focussing any following excavation in the most likely productive area.

### **General comments**

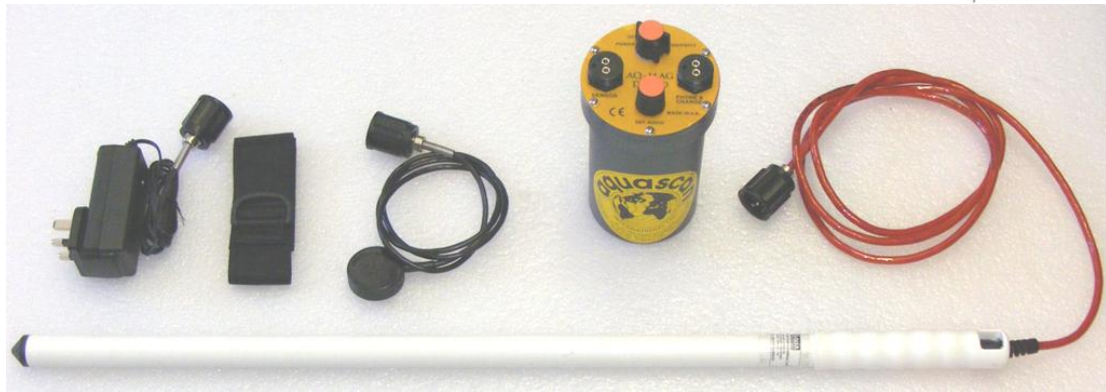
The DX-300 is NOT a metal detector. It detects localised disturbances in the earth's magnetic field that are caused by the presence of ferrous material. The user should note that other things can cause magnetic disturbances that will affect the DX-300 operation. These include electromagnetic fields produced by electrical and electronic devices. Working around large industrial areas or under transformers and high tension power lines will generally give the user problems with false readings. In the water it is just important to be clear of any influence that may be generated by a large steel vessel; and of course equipment on the diver such as a steel dive cylinder.

If you are searching for small items of debris, such as a cannonball, a pistol, a hand tool; you will probably be more successful utilising a metal detector such as the Aquascan AQ1B. The DX-300 is more suited towards larger items, which will cause a larger magnetic deviation. The DX-300 is ideal for commercially searching for buried UXO, pipes, cable and large ferrous debris. For archaeologists and wreck hunters it is ideal for locating cannons, anchors, chains and other large ferrous items that can confirm the presence of a buried wreck site. Large ferrous masses will be detected at greater distances than smaller masses and will be noted to have a much slower build up to the peak audible response.

### **The DX-300 Equipment**

The AQUASCAN DX- 300 Basic Kit consists of the following items:

1. Sealed electronic unit
2. Bone conductor earphone (Bonephone) .
3. Sensor Probe with cable and plug.
4. Mains Battery charger (100-250v) with AC charging lead.
5. D-Ring mounting system.
6. Operating instructions.



DX-300 Basic Kit

The **Aquascan DX-300 Diver Held Magnetometer** is a precision built instrument using the latest Fluxgate magnetic sensors, and has been designed for both ease and simplicity of use in the underwater environment, featuring four sensitivity settings for use in pinpointing targets. The initial design featured LO, MED & HI settings; however since introducing the DX-300 an X HI range has been added.

The unit is ruggedly built to withstand normal diving usage, but to get the best trouble-free operation and long life, certain simple operation and maintenance procedures must be followed. Read the instructions carefully before diving with your DX-300.

## Initial Testing of your DX-300

*Note: It is highly recommended that you familiarize yourself with the DX-300 on land before taking it into the water. This section explains the basic functionality of the DX-300 and how to use the controls. It is much easier to learn to operate the unit without the challenges of limited visibility, restrictive dive equipment, currents, etc. So, please take the time to perform this Initial Testing of your unit before venturing into the water with it.*

### 1. Charging the batteries

The DX-300 is supplied only partially charged and will require a full 14 hours charging duration to bring the unit to a fully charged status. **Make sure the DX-300 is in the OFF** position. Plug the output lead from the charger into the AUDIO & CHARGE socket on the control bulkhead. Please note that this can only be inserted one way round due to the locating (polarising) pin. Screw down the retaining collar. This should be good finger tightness only.

***N.B. DO NOT ON ANY ACCOUNT PLUG THE CHARGER INTO THE PROBE SOCKET AS DAMAGE MAY BE DONE TO THE ELECTRONICS***

Ensure the charger is correctly connected to the Charge/Audio socket **before** plugging the charger into the mains supply (100 – 250vAC). After running for an hour or so the charger may get slightly warm to the touch. This is quite normal.

***N.B. THE CURRENT TYPE OF CHARGERS SUPPLIED (JAN 2011 ONWARDS) PROVIDE A CONSTANT RATE OF CHARGE FOR UP TO 14 HOURS; FOLLOWED BY A TRICKLE CHARGE (MAINTENANCE) MODE. WHILST CHARGING AT THE REGULAR RATE THE LED LIGHT WILL GLOW ORANGE, ONCE THE CHARGING PERIOD BEEN COMPLETED THE CHARGER DROPS INTO “TOP UP” CHARGE MODE, AT THIS STAGE THE LIGHT CHANGES TO GREEN WITH A YELLOW FLASH.***

During subsequent partial recharge/top up requirements; batteries will not be damaged by being left on charge for a longer period than necessary, this is due to the controlled charge current being automatically followed by a trickle charge mode. If the batteries become fully discharged - due to natural extended usage or through the unit accidentally being left in the on state – the unit should be fully recharged as soon as possible to avoid irreparable damage to the battery cells.

***N.B. DO NOT USE ANY BATTERY CHARGER OTHER THAN THAT SUPPLIED; AS THIS COULD RESULT IN DAMAGE TO THE BATTERY PACK.***

When the charge period has elapsed, disconnect the AC supply to the charger **first**, and then unplug the connector from the socket on the detector. Charging can be terminated before the 14 hour period has elapsed if the unit just requires a top up charge. NB. The operational usage time on a full charge with a healthy battery pack will be in the order of 24 hours, recharging will require a 1 hour charge time for each 2 hours of usage; in other words a 2:1 usage/charge time to replenish. Some earlier types of charger had a 6 hour time out period requiring the charger to be switched off and back on to extend the charging to periods exceeding the 6 hour cut off.

2. For initial testing on land, you will have to find a location where you can position yourself at least 20 metres from any large ferrous objects in all directions. Get rid of anything containing ferrous/magnetic items on your body or in your clothing – and leave your mobile/cell phone well out of range. An empty farm field, park, sports field or beach is ideal for testing. If possible park your car at the edge of the field (at least 20 metres from where you will be testing), or find a location where there is some large ferrous target in one direction only.
3. To prepare the DX-300 for use, plug the connector on the Sensor Probe into the SENSOR socket and screw down the retaining collar. This should be good finger tightness only.

***N.B. PLIERS OR OTHER TOOLS SHOULD NOT BE USED TO TIGHTEN THE PLUG COLLARS. THESE ARE DESIGNED TO BE USED FINGER TIGHT WITH THE BLACK RUBBER BULKHEAD SEAL IN PLACE ON THE PLUG PINS. OVER-TIGHTENING, OR INSTALLING THE PLUG***



***WITHOUT THE RUBBER SEAL CAN PERMANENTLY DAMAGE THE SOCKET, WHICH MAY CAUSE THE CONTROL UNIT TO FLOOD.***

***Note: The charger plug can only be inserted one way round due to the polarising pin.***

4. Plug the connector on the Bonephone (or headphone) lead into the PHONE & CHARGE socket and screw down the collar as above. NB. For testing on land the headphones – if available - are much easier to work with.
5. Locate yourself to the centre of the testing area, hold the Sensor Probe at full arm's length from your body, pointing down at about 45 degrees, and switch the unit on by rotating the POWER – SENSITIVITY control to the LO position. If a continuous sound is heard immediately, the SET AUDIO control should be rotated one way or the other until the audio threshold is reached; this is indicated by a low frequency ticking sound in the Bonephone/Headphones. Note. The SET AUDIO has a full 10 turns of rotation to give it good resolution of setting. There is a “central point” where you will achieve the low frequency ticking sound, turning the SET AUDIO control either way from this point will result in an increase in the audio output.

***Note: The SET AUDIO control is a 10-turn potentiometer. Do not turn it past its stop point in either direction or permanent damage will result. The audio threshold should be somewhere in the middle of the 10 turns, so just start turning one way until you either reach the audio threshold or the stop point of the control. If you reach the stop point without finding the audio threshold, start turning the other way until you do. Once you have found the audio threshold the first time you test the unit, the SET AUDIO control should be in the near vicinity of the correct location for future uses, so you will normally just need to tune it back and forth a few turns unless someone has turned it away from this setting.***

6. Once you have achieved the audio threshold adjustment, turn the POWER - SENSITIVITY control to HI. You will probably have to make minor adjustments to the threshold setting when you switch to HI. Once you have the threshold set to the low frequency ticking, you are ready to begin testing. Test the operation of the DX-300 by walking slowly towards the target with the Sensor Probe pointed down at about 45 degrees rather than vertical to increase the lateral sensitivity. As the Sensor Probe is pointing in the direction of a target, you should hear an increase in the audio output. Walking passed the target at a distance of about 2 metres (6ft) you should get a peak in the audio as you pass the target then a gradual reduction as you walk beyond the target.
7. Carry out a subsequent test with the X HI range setting – readjusting the audio as required, this should give an increase in the detection range. Note this range requires the operator to hold the sensor as steady as possible to avoid any changes due to angular or rotational effects rather than target responses.

8. As you get closer and closer to the target, the DX-300 will begin to have constant audio output pitch, so you will need to lower the sensitivity to be able to actually pinpoint the target. Do this by changing the SENSITIVITY setting to HI, MED, then; as you get even closer, change the setting to LO.
9. If possible, experiment with several different targets of different sizes to get an idea of how the unit behaves under different circumstances. If you have access to a buried target such as a Steel Pipe or Armoured Cable then carry out a series of tests with the sensor held vertical. Having performed the above checks on land, you are now ready to use the Aquascan DX-300 in the water.

## Underwater Operation

*NOTE: As explained above in the Land Test, you must be free of objects containing ferrous materials. Steel dive tanks are generally out of the question. Most Stainless Steel has little or no magnetic properties, so it usually won't interfere with the operation of the DX-300. But check yourself carefully; something as small as a set of keys can affect the operation of the unit and give you false readings. Also, don't try to operate the unit in the vicinity of a large steel vessel.*

1. The control unit of the DX-300 can be worn or carried in a number of ways; the choice will be influenced by the conditions and diver preference. The most obvious choice is worn clipped to any suitable location on the diver with the D-Ring mounting system provided with the unit. Other options include the quick release belt harness; strapping it to the upper arm, or mounting it to the DX-300 Armsaver optional accessory - supplied with the Professional systems (see section DX-300 Optional Accessories).
2. The Bonephone should be placed under the hood. If no hood is worn, it can be placed under the strap of the facemask or under a suitable neoprene headband. Position the Bonephone so that it is on a bony part of the head close to the ear.

***N.B. NEVER PLACE THE PHONE DIRECTLY OVER THE EAR AS THIS COULD INTERFERE WITH PRESSURE EQUALISATION ON THE EARDRUM.***

3. Dive to the seabed area to be searched.
4. Switch the unit on and rotate the SENSITIVITY control to HI. Hold the Sensor Probe at full arm's length in front of you and pointing vertically down. Rotate the SET AUDIO control to achieve the audio threshold point. Using the Basic Kit keep the Sensor Probe at arms length and vertical, or in the case of the Professional Kit utilising the 45° or 90° optional assemblies - according to the swim height off the bottom.
5. If you are trying to pinpoint a "response" from a towed magnetometer, the optional procedures are to operate a circular search using a distance line from a central marker. Alternatively, using the reference point as the "hub of a wheel"





carry out straight line searches to a set distance in a variety of directions. If you detect even the smallest change in audio in any given direction, note the point of the peak response.

6. Carry out a search through the initial peak response on a line that intersects at 90 degrees, a further peak response should occur somewhere on the intersect line to confirm the true position of the target.
7. If you are just doing a general search of an area, you will probably want to establish some sort of grid and move in straight lines a good starting point is to search at a separation of 2 or 3 metres (6 to 10 feet), Note. The midpoint between successive lanes is only half the separation distance, hence the DX-300 is not required to detect laterally at the full lane separation distance.

*Note: Different environmental conditions may make a small difference to the threshold setting as you perform your search, which can be readjusted by the SET AUDIO control knob.*

### Care and Maintenance

Proper care of your **Aquascan DX-300** will be repaid by a long and trouble free life and attention should be given to the following points: -

1. After use, and before removing plugs, make sure that the unit is switched off, and wash down with clean fresh water. **NEVER** use chemicals to clean your DX-300 as these will damage o-rings and seals, which can cause them to fail and allow the incursion of water into the control unit.
2. Remove the Sensor Probe and Bonephone/Headphones plugs from the bulkhead sockets, and make sure the Rubber Seal is free from sand or other debris (remove and clean if necessary). Dry off the plug pins and blow any moisture out of the sockets. You can use a Q-Tip to clean and dry the sockets. Ikelite does not recommend using silicone grease or any other material on the connectors. The rubber seal provides adequate isolation of the connectors from the water. Use of these type products tends to accumulate sand and other debris which can actually interfere with the seal. Never utilize petroleum products such as Vaseline, since these will harden the rubber seal making it non-functional. The rubber seal should be replaced any time it becomes stiff, as this will interfere with its function.

*Note: A dirty or corroded connection is the most common cause of poor performance of underwater detection equipment. Keep your connectors clean and dry between uses. Use water dispersants as required.*

1. Dry the DX-300, paying particular attention to the area around the plugs.
2. Clear any excess water present on the bulkhead by blowing or wiping with a soft cloth.

3. Recharge the batteries if the total hours used is approaching 10.
4. **Never** leave your DX-300 lying in the hot sun, as this could raise the internal temperature to the point where it may distort the case and harm the electronics. This warning also applies to the Sensor Probe and headphones/Bonephone.
5. The electronic unit is sealed and pressure tested in the factory, no attempt should be made to access the electronics. If any servicing is required, contact your supplier who will advise you where to send the unit.

### **Battery Care & Checking Battery Performance/Status**

The DX-300 internal battery pack is an 8-cell series NiMH AA size pack giving a capacity of approximately 2700mA/Hrs at the discharge rate. This capacity relates to an operational period of over 24 hours from full charge. Note: self-discharge occurs naturally in a rechargeable battery. During inactivity this self-discharge causes the battery to slowly discharge itself over a period of months. To maintain maximum performance it is important to charge your DX-300 periodically when not in use.

#### Checking Battery Pack Performance

**Note:** *For routine maintenance this should be carried out every three months.*

The recommended procedure is as follows: -

- 1.0 Connect the Sensor Probe to your DX-300 module.
- 1.1 Power on your DX-300 and leave it on overnight to fully discharge the battery.
- 1.2 Power off the DX-300 and disconnect the Sensor Probe.
- 1.3 Charge the DX-300 for at least 14 hours using the provided charger.
- 1.4 Once the DX-300 is fully charged, disconnect the charger.
- 1.5 Connect the Sensor Probe and Bonephone/Headphone to the DX-300 unit and switch it on. Place the Sensor Probe away from any ferrous target and adjust the SET AUDIO control to get a steady slow ticking sound if possible. This may be difficult if you are inside a building due to the electronic noise and many metal objects.
- 1.6 Make a note of the time.
- 1.7 Confirm the functionality of the unit every 30 minutes - re-adjusting the tick-over as necessary.
- 1.8 When it becomes impossible to set the threshold, or the audio ceases altogether, this can be considered to be the end of charge status for the battery. This should be in the range of 10 to 12 hours for a healthy battery pack.

- 1.9 If the performance becomes unacceptable after less than what you (the operator) determine to be an acceptable minimal operational period, then the DX-300 Battery Pack needs to be replaced.

*Note: If your battery needs to be replaced please contact our technical support dept to arrange for an installation of a replacement battery, or in the case of an approved service agent please refer to the servicing data provided.*

*Please consider NiMH batteries as hazardous material and dispose of your old battery pack in line with local guidelines.*

## **Troubleshooting Guide**

### **Symptom: No Response from DX-300 Module**

Check the following:-

1. Check that the battery has been charged – If not, place DX-300 on charge and then re-test. Note. As the voltage drops below a certain point, erratic behaviour will result. Further decrease in voltage will result in total lack of functionality.
2. Check that both Sensor Probe and Bonephone are correctly connected
3. Try using an alternative Bonephone/AQ1B Headphones.
4. Try using an alternative Sensor Probe if available.
5. Check that both the Sensor Probe and Bonephone are in good condition. Check by substitution if possible or by monitoring the nominal resistance of Bonephone/Headphones. Connecting a good quality multi-meter across the pins of the plug can check the resistance. NB. It is good policy to firstly check the multi-meter's reading with the leads shorted together - this provides a measure of what residual reading to take into account.  
>See DX-300 Resistance Chart below: -

<b>Item</b>	<b>Resistance (ohms)</b>
Bonephone	5.4
Land Headphones	15.0 (Minimum Volume)
U/W Headphones	10.5

6. There is no user test for the Sensor Probe other than visual mechanical inspection. Inspect the connector and cable, looking for any signs of damage that could allow ingress of water into the cable or connector. If damage is found, contact your Aquascan agent for servicing/replacement.

**Symptom: Erratic Performance from DX-300 Module**

1. First check as above.
2. Check that the contacts of the bulkhead connectors are clean.
3. Check that the connectors of the Sensor Probe and Bonephone are clean. If necessary reduce the contact resistance by slightly prising the gap in the male contacts, this will increase the firmness of the connector on insertion.
4. Check for visible damage to Sensor Probe cable and connector, which could have caused water ingress.
5. Check that the male connector seals are in place and clean.
6. If you are unable to determine the cause of the erratic behaviour, contact your Aquascan agent for assistance.

## DX-300 – SPECIFICATIONS

### MATERIALS & DIMENSIONS:

#### INSTRUMENT CASE

Housing material..... Machined uPVC  
 Housing Dia ..... 100mm  
 Overall length ..... 187mm

#### MAGNETOMETER PROBE

Probe housing..... GRP  
 Probe Dia ..... 25mm  
 Probe Length..... 750mm

#### CABLE

Construction..... Twin core + shield  
 Diameter - ..... 6.7mm  
 Sheath..... Polyurethane  
 Length ..... 2m (approx 6ft)

#### POWER

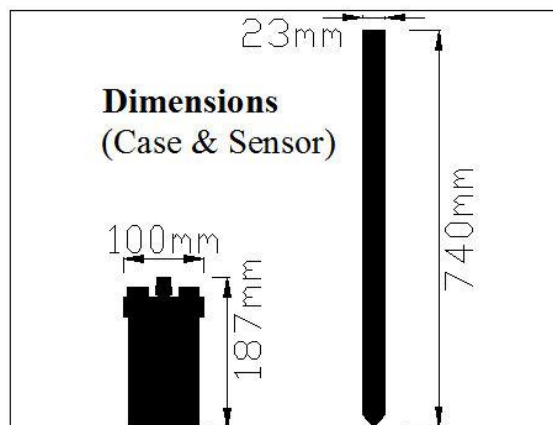
Power . Internal Rechargeable 2200 NiMH battery  
 Charger..... Universal 100-250v AC  
 Charge time (from empty) ..... 14Hrs

#### CONTROLS

Power ..... On/Off – Incorporated with Sensitivity  
 Sensitivity Switch Off/ Low/Med/High/Extra High  
 Set Audio ..... Multi-turn Pot

#### WEIGHTS

Control Unit ..... 1Kg  
 Probe & Cable..... 0.72Kg



*Basic outline of Case & Sensor Stem*

## **DX-300 - ACCESSORIES**



### **AQ.4.061**

DX-300 Bonephone – Fully waterproof headphone that utilises an Ikelite underwater connector to connect to the DX-300 Control Module. The low profile module is normally placed against the skull; below or behind the ear whilst underwater, enabling the diver to clearly hear the change in the Detector tone when metal is sensed.



### **AQ.4.062**

DX-300 Bonephone – with extending flex cable. This version is in all other respects the same as the AQ.4.061. The option of a flexible cable that will extend and retract is preferred by some divers; particularly in low visibility conditions to minimise the risk of the cable fouling any obstructions.



### **AQ.4.030**

DX-300 Land Headphones – Rugged headphones optional accessory for use above water; enabling The DX-300 to be utilised as a powerful ferrous metal land detector. The Headphones feature an adjustable volume control and a comfortable fit for the user.



### **AQ.4.031**

DX-300 Underwater Headphones – Rugged headphones for use underwater giving an alternative to the Bonephone. These phones are particularly useful in warm waters where a diving hood is not normally worn, They also provide a more powerful sound level that can enhance the ability to sense even the most subtle changes in the audible output.



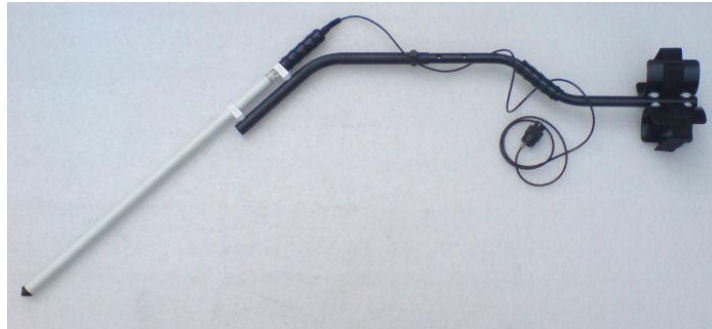
**AQ.4.010**

Battery Charger – Switched mode unit with 100v to 250v AC 50/60HZ input voltage range this unit is used to recharge the internal battery pack of the DX-300 Control Module. The charger can be supplied with option of US, UK or European type Power Connector in the form of a push-fit shoe or as a conventional power lead.



DX-300 Control unit

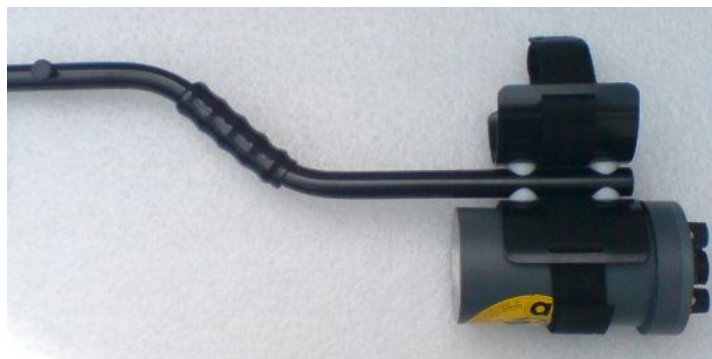
**DX-300 – OPTIONAL ACCESSORIES**



Optional DX-300 Armsaver – probe extended



Optional DX-300 Armsaver – probe retracted



DX-300 Control Unit mounted in optional Armsaver



Close up of DX-300 Armsaver Probe connection

DX-300 – PROFESSIONAL KIT



DX-300 Professional Kit - Case closed



**DX-300 Professional Kit**

**Includes:**

Transit/Storage case for DX-300. Control Unit, Sensor Probe, D Ring, Waist Belt, Charger, Bonephone, Underwater Headphones, and Armsaver kit.



**Manufacturer Contact Information**

If you should need to contact Aquascan International Limited for advice on your purchase, to order further equipment or to arrange a repair, please use the following contact information: -

Mailing Address:

Aquascan International Limited  
Aquascan House  
Hill Street  
Newport  
South Wales  
NP20 1LZ  
United Kingdom

Tel: +44 (0) 1633 841117

Fax: +44 (0) 1633 254829

E-mail: Sales Enquiries: [sales@aquascan.co.uk](mailto:sales@aquascan.co.uk)

General Inquiries: [info@aquascan.co.uk](mailto:info@aquascan.co.uk)

Technical Support: [support@aquascan.co.uk](mailto:support@aquascan.co.uk)

Website: [www.aquascan.co.uk](http://www.aquascan.co.uk)



# Aquascan International Ltd. EC Declaration of Conformity

We hereby declare that the following equipment complies with the essential requirements at the Electronic Compatibility Directive (89/336, 91/26 3 and 92/31).

This equipment should not be modified, without our approval, as this declaration will lose its authority.

**Equipment description: - Diver Held Magnetometer.**

**Model: - DX-300.**

**Manufacturer: - Aquascan International Ltd.  
Aquascan House  
Hill Street  
Newport,  
NP20 1LZ  
S. Wales.**

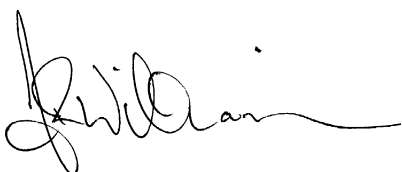
Tel: +44 (0) 1633 841117

Fax: +44 (0) 1633 254829

**Email: [info@aquascan.co.uk](mailto:info@aquascan.co.uk)**

**Applicable directives: - EN 55011 General Emission Standard Class A,  
Group 1.  
EN 50082 Generic Immunity Standard Part 2.**

A technical construction file for this equipment is retained at the manufacturing base.

**Signed :**  **, Date :- 1st January 2014**  
.....

**J. R. WILLIAMS** **Managing Director**

**Name :- .....** **Position :- .....**