



C.Scope CS770XD AUDIO DISC Metal Detector



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## naming of the parts

1. Control box
2. Main stem
3. Hand grip
4. Armrest/detector stand
5. Lower stem
6. Twistlock stem adjuster
7. Search-head



8. Search-head retaining screw, washers, nut
9. Search-head lead
10. Loudspeaker
11. Headphone socket (rear of control box)
12. Battery compartment
13. Battery compartment cover
14. On/off/sensitivity control
15. Retune push-button
16. Inland/beach site selector.

### C.Scope CS770XD Audio Disc Metal Detector

The CS770XD is a lightweight professional format metal detector with target identification facility. The smart operating system recognises metal targets which are likely to be worthless. The detector is extremely easy to use but you will be a better treasure hunter if you take the time to read this manual carefully and understand what the controls are doing.

#### **CS770XD - Rapid get you going instructions**

**Assemble** and adjust for length. Twist surplus lead around the stem. Insert battery so that the terminals line up easily with the contacts in the battery compartment. (9volt MN1604, PP3 type )

**Switch on** at the on/off/sensitivity control (14)

**Simultaneously press the retune button (15)** and keep it depressed whilst turning the Sensitivity Control (14) to a point where a tone is just about audible or even a little lower where the tone is just absent. (known as 'the threshold point'). This position should be found around the start of the green area on the scale. Release the retune button.

**Switch the site selector (16)** to 'inland'.

**Press the Retune button (15)** once. Reset the sensitivity (if necessary) to the point where a tone is just about audible.

**Start searching** using a relaxed motion swinging the search-head from side to side as close to the ground as possible.

**Press the Retune button (15)** every few minutes or whenever the background tone rises to an unacceptable level. You are now searching in 'inland audio discrimination mode'. The presence of a metal target will be indicated by the increasing intensity of the tone. Signals from targets likely to be valuable will give a high pitch tone. Signals from targets likely to be worthless will give a low pitch tone.

**For beach hunting** switch the site selector (16) to 'beach' and press the retune button. Reset the threshold point if necessary. You are now searching in 'beach preset discrimination mode'. Signals from targets likely to be valuable will give a tone increasing in intensity. Signals from targets likely to be worthless will be ignored.

## THE CONTROLS AND WHAT THEY DO

**(14) The on/off/sensitivity control** switches the machine 'on' and sets the sensitivity level. The detector sensitivity should normally be set at the point of threshold, that is the point at which a background tone is just about audible. The point of threshold will be found within the green area on the scale. Set the threshold point with the detector head held just above the surface of the ground. Switch the machine 'on' and with the other hand press the retune button (15). Keep the retune button depressed while you rotate the sensitivity control to a point where the background tone is just audible or just absent. (this is called 'the threshold point'). Then release the retune button and the detector is ready. In severe ground conditions (wet salt beach or mining areas for example) it may be necessary to reduce sensitivity to below the threshold point in order to achieve stable operation.

**(16) Inland/beach site selector.** The detector can ignore the signals from some metals which are likely to be worthless. Small iron objects like building nails are the main source of false signals, especially on farmland sites. The CS770XD recognises these objects and allocates them a low pitch tone in Inland Mode or ignores them completely in Beach Mode. Items that are most likely to be valuable give a high pitch tone in Inland Mode or increasing in intensity (volume) in Beach Mode.

**(15) Retune Push-button.** The purpose of the Retune push-button is to keep the detector working at peak performance by maintaining the point of threshold set on the sensitivity control. For example, moving from dry ground to wet ground may cause the background tone to gradually increase to an unacceptable level. Pressing the retune button momentarily will bring the background tone to the point of threshold again. If the retune button fails to have this effect, it is probably necessary to re-set the sensitivity level. It is good detecting practice to press the retune button every few minutes or whenever you feel that that the detector may have drifted away from its sensitivity setting.

## Assembly

Join the two stem sections (5)(2) together. Wind the search-head lead (9) around the stem as shown in the photograph. Adjust the stem for length according to your height (it's easier on your back if you can stand up straight while detecting) and tighten the twistlock stem adjuster (6). Check that the search-head (7) is parallel to the ground when being swept in an arc and tighten (be careful not to over-tighten) the search-head retaining screw (8). (Keep these parts clean - if they become covered in mud or sand wash and dry these parts at the end of a day's detecting. Don't allow any form of lubricant onto the rubber friction washers.)

## Battery

Push back the retaining clip and remove the cover (13) of the battery compartment (12). Fit a 9 volt battery (MN1604, PP3 or equivalent). There are guide strips to ensure the battery is fitted the right way round. Do not force the battery. It should slide in easily to connect with contact strips in the compartment. Remove the battery if the detector is to be stored for more than a few days.

**Searching Technique:** Try out a variety of targets to test the reaction of the audio target analysis system. Iron nail, gold ring, £1 coin, for example. Check the intensity and the pitch of the signal. Note how the detector signal changes and, as you gain experience



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of this feature, you will become adept at making decisions about whether to dig or not. For starters, if you are in any doubt, it's safer to dig! Sweep the detector head from side to side in a smooth arc. Move forward at each sweep the width of the search-head. Keep the search-head as close to the ground as possible, even at the ends of the arc where there is a natural tendency for the search-head to lift. Maintain a strict search pattern so that the area being searched is completely covered. (You will be more successful if you cover a small area of ground thoroughly than if you search a large area of ground in random fashion. The non-motion electronic system is most suited to a careful detecting technique). When you encounter a signal, move the search-head slowly around the area. The signal is strongest when the target is directly below the centre of the search-head. Use the tone ID system to help decide if you are going to dig this signal. Remove the clod of earth where the signal appeared using a sharp digging tool. Check further by passing the search-head over the clod to see if the target is there or deeper in the hole. Replace the earth after recovery of the object and it should be difficult to see that the ground has been disturbed.

**Important note:** the 2-tone target analysis only functions in inland mode. We designed it this way because experience has shown that typical rubbish metal objects encountered on the beach are generally different to those found on inland sites.

**Do not trespass.** Ask permission before searching on private land. Check for local bylaws about detecting on public land. Not all countries have such a positive attitude towards treasure hunting as we have in the UK. Observe the Country Code. Fill in all holes. Report all valuable or historically interesting finds to the appropriate authority. Do not touch any item suspected of being unexploded munitions - **mark its position and report to the police immediately.**

**Contact C.Scope or your local detector supplier for a range of C.Scope Accessories:**

**Headphones:** make it easier to hear weak signals and increase battery life. The headphone socket is underneath the control box (11).

**Search-head cover:** protect the underside of the search-head from abrasion damage. Extends the life of the search-head.

**Rechargeable batteries. Digging Tools. Detector Bags.**

#### **Detector Care**

The CS770XD is a robust design. However, the control box should be treated with similar care as any electronic product. Dry off any water splashes immediately. The search-head may be immersed in water. Stem and search-head parts should be washed with tap water and dried at the end of a day's detecting. Do not use solvents.

#### **Warranty & Service**

The CS770XD is guaranteed free of manufacturing defects as confirmed in our written warranty document. Contact us if you have any concerns about the operation of your detector. The C.Scope Customer Service Team really know about metal detectors and are always ready with good advice and rapid after-sales-service.



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

(In the UK visit [www.recycle-more.co.uk](http://www.recycle-more.co.uk))

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System performance may be impaired by unusually strong electromagnetic fields.

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