

# field test

## Makro Multi Kruzer Part 1 – A first look Sid Perry

**MAKRO**  
METAL DETECTORS



**kruzer**  
SERIES

### Makro Multi Kruzer

#### Specifications:

**Specifications:** Makro Multi Kruzer

**Operating Principle:** VLF

**Frequency Options (kHz):** 5, 14 & 19

**Standard Search Coil:** 11" x 7" DD

**Weight:** 1.3kg

**Battery:** LiPo

**Warranty:** 2 years

**Price:** Multi Kruzer **£649.00**/Kruzer 14kHz only **£559.00** /

**Gold Kruzer £649.00**

The Kruzer is from the same stable as the Racer 1 and 2, both great machines in the mid-range market biting at the heels of higher priced competition.

#### Things have just got even better!

Makro really have changed things up with their new Kruzer range, it consists of three machines: Kruzer, Multi Kruzer and Gold Kruzer. In this test we're looking purely on the Multi Kruzer and using a pre-production model (Part 2 will be on the retail machine).

The Multi-Kruzer is a well-balanced machine weighing in at just 1.3kg. It is fully waterproof up to 5 metres with a rating of IP68 with a great new vibration alert feature (particularly good for use underwater). Other features include: Extra Underground Depth (EUD), three different frequencies: 5kHz, 14kHz and 19kHz to suit all types of soil conditions and desired targets, faster reactivity, built in 3700mah lithium polymer battery and the option to purchase a waterproof external battery pack that holds 4AA batteries which attach to the back of the arm rest hidden away nicely. Ideal for those long searches and weekend trips. Additionally it has a very comfy rubberised grip great for rainy days and beach detecting.



## First impressions

After an easy assembly and initial six hour battery charge I was keen to get out and see how the Multi Kruzer performed.

### Test 1: Pasture

My first choice of test was on a previously 'rallied' Victorian 30 acre pasture site of pasture and headed straight to an area that had produced a few finds in the past and was now 'quiet'.

I set up the machine up with:

#### Deep mode

<b>KHz</b>	<b>14</b>
<b>Gain</b>	<b>94</b>
<b>Disc</b>	<b>03</b>
<b>Notch</b>	<b>04</b>
<b>Fe Vol</b>	<b>N2</b>
<b>T-Break</b>	<b>07</b>
<b>Tone Fe 15 gold/non-Fe</b>	<b>43</b>
<b>Isat</b>	<b>01</b>
<b>Vibrate</b>	<b>01</b>

The field was as expected, very quiet with limited signals but I was getting the odd deep target that others had obviously missed. First was a Victorian bronze token giving a feint but repetitive signal, target ID of 83 at about 12", way beyond the depth of my pinpointer.

I felt immediately that it was impressive and a good start.

The new vibrate feature really gets your attention. It's just strong enough without being too overpowering and uncomfortable.

Second was a bronze broken strapend at about 9", target ID of 25. I also had a few George III halfpennies around 9 -12" deep, target ID 85.

My initial impressions about depth were good and I was already thinking about the next part of the test.

### Test 2: The Beach

As with any machine set up for beach detecting, the biggest test is wet sand. So that's exactly where I headed first. I set the machine up as follows:

#### Beach mode

<b>KHz</b>	<b>14</b>
<b>Gain</b>	<b>90</b>
<b>Disc</b>	<b>9</b>
<b>Notch</b>	<b>10</b>
<b>Fe Vol</b>	<b>5</b>
<b>T-Break</b>	<b>10</b>
<b>Tone, Fe 15 gold/non-Fe</b>	<b>43</b>
<b>Isat</b>	<b>01</b>
<b>Vibrate</b>	<b>01</b>

After the initial Ground Balance the Kruzer became nice and stable. In some areas I had to lower the Gain to about 83 just to quieten down the chirps but I was still getting great depth.

My first signal was a ring pull, nice and loud with a target ID of 43. I started digging but the hole was filling straight back up with salt water. Finally I got the target at around 8".

My second target was a Victorian penny giving off a good loud signal and at 12" deep and a target ID 83. Looking at the sand removed I could see the last 2" in the hole was the difficult black sand.

I also had the usual trash, foil, fishing weights and other coins but these were at less depth that most machines would have detected. However, the deeper items, would in my opinion, have been missed by other beach ready machines.

The only negative thing I could say about the Kruzer on the beach was when the coil scuffed the sand it would give off a signal but just by maintaining a clearance of 10mm this wasn't a issue. You could tweak the settings to remove this Sensitivity but then you risk losing its impressive depth. I preferred to run it 'hot'.

### Test 3: On fresh plough

This was the one I was looking forward to as I wanted to test the new 3 Tone program which promised really fast Reactivity when Gain was below 90. If the Gain is set above 90, the Reactivity slows a little but you Gain more depth. For me, when on fresh ploughed terrain I think faster Reactivity is better than trying to punch deep if I've limited time on the land.

I set the machine up with:

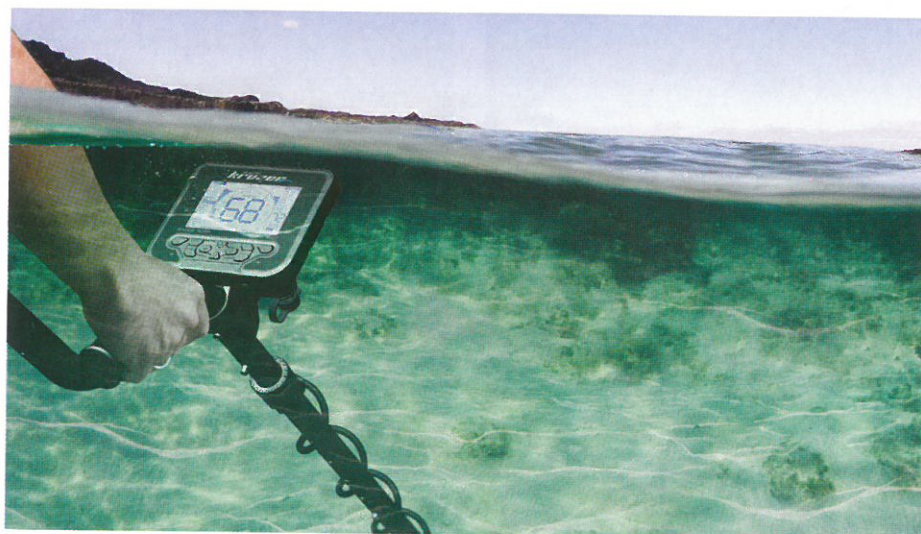
#### 3 Tone mode:

<b>KHz</b>	<b>19</b>
<b>Gain</b>	<b>89</b>
<b>Disc</b>	<b>00</b>
<b>Notch</b>	<b>01</b>
<b>Fe-Vol</b>	<b>N2</b>
<b>T-break</b>	<b>05</b>
<b>Tone, Fe 15, gold/non-Fe 50, non-Fe 70</b>	
<b>Isat</b>	<b>00</b>
<b>Vibrate</b>	<b>00</b>

The day arrived and I was to be out with some other Makro/Nokta users. Peter from LP Metal Detecting was also using the Multi Kruzer, my mate Stephen was using the Racer 2 and Harry from iDetect was using the Nokta Impact.

As I walked onto the field I was getting a lot of EMI chatter. I looked around for the cause and there were some telephone masts very close by. I did a quick frequency shift and it was gone instantly. The ground was very sandy and there was a fair bit of iron contamination. My first signal was a military button, target ID 60, about 5" deep and was easily distinguished from between the iron.

The second signal was yet again a button and this seemed to be the 'dish of the day'. BUTTONS were everywhere and was about to dig another when I heard Peter shout 'GOLD!' We all rushed over to see what he had found.



**FAR LEFT** Multi Kruzer control panel  
**LEFT** Multi Kruzer under water  
**RIGHT** Battery pack



A stunning gold ring with a nice pattern with three small diamonds around the top. What a great start with the Multi Kruzer on fresh plough. To think these are just prototypes test machines too!

A few minutes later I got a nice silver threepence coin dated 1920, target ID 52 – not amazing depth again at about 6" but a banging signal.

After digging over 100 buttons between us we decided to have lunch over which we decided we should test the machines against each other to see which one had the advantage on depth and recovery.

Our first test was a George III penny buried at 12-13" with the soil stamped down. All our machines got the signal but we all agreed the Kruzer had the edge with a sweeter sounding signal.

The second test was a speed test with a 4" rusty nail and three small copper coins (Victorian farthing size). I placed the three coins 3" apart in a line and put the nail at the end. First up was the Racer 2, it struggled a little when swung at a fast pace, but you could still hear the coins over the iron, but the nail was starting to mask them out. However at a slower pace it got them no problem.

Second was the Impact and like the Racer, when swung at a fast pace it did give a signal over the coins but you could hear the nail trying to mask the good targets out. Again though, with a slower pace, it got them no problem.

Lastly, the Multi Kruzer when swung at a fast pace you could hear all the targets clear and the nail did not affect the signal at all. The tones sang out loud and clear and with ease.



This showed us all that all the machines had great capabilities but the new 3 Tone Reactivity is very fast and impressive.

#### **My Verdict**

The Makro Multi Kruzer is a great metal detector especially at such a competitive price of £649 RRP. It has super fast reactivity and achieves impressive depth. It has a nicely presented LCD display that's easy to navigate the features and functions and to familiarise yourself with.

My tips for easier searching, is to adjust the tones to suit your hearing to help make the targets stand out from the iron. If you set Iron Tone to 15 and the next tone 40 or above, there is a

larger difference between the tones which really helps.

Additionally, the new EUD feature, on mineralised ground or land with hot rocks may get you the targets other machines have missed (double tap select to activate) but you would need much longer in the field with the machine than I had to grid out and check this feature for yourself. However I will explore this in Part 2.

I wouldn't hesitate to recommend this machine. In my mind the MULTI part of the name doesn't just mean multi frequencies, it means multi-purpose and does everything well.

**TOP** Sid Perry out testing the Multi Kruzer

**BELOW LEFT** Gold ring

**BELOW** Peter Turrell with his find

