

# het beetje

May 2006



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English Version

## Measuring Equipment



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## Colodings & else

Here the answer to the question raised on the frontpage.  
Where is this finger pointing to?

In the inside pocket there is a meter, which I always carry with me, when I leave the house.  
A welcome companion.

One may discuss whether it is a meter or a detector.  
I find it very informative.

There are no measuring values to be read; the lighting LED's show only the differences of the received signals, and roughly the signal strength, but no reliable values.

But that is sufficient. In fact, everything that goes over  $200 \mu\text{W}/\text{m}^2$ , is dangerous for electro-sensible people, and should be avoided. Crucially is to determine what is going on in the vicinity, and this for the almost complete spectrum, from HF to low frequency.

In my opinion, listening to the (modulated) sounds of the signals, is very important in order to find out what kind of signals one is dealing with, and these meters can do this job excellent. One may assess a situation in a jiffy, and according to the sound analysis, determine what radiation sources are present.

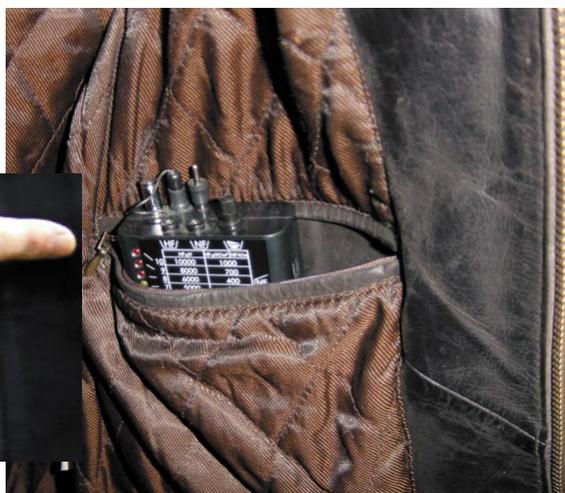
The shown meter id the **Esmog Spion**, already reviewed in \*het bitje\* **April 2003**.

Its predecessor is the **HF Digitmeter II**, which is displayed on the next pages.

Before that there was the **Esmog Handy** and **Hellreceiver**, but I have never seen them.

And there is the **HAARP** or **VLF Detektor**, reviewed in \*het bitje\* **Oktober 2004**, on page 15. At the moment it is called **VLF Spion**, fitting in the Spion series. Spion is the German word for Spy.

A disadvantage of the **Esmog Spion** is, that he does not have a BNC antennabus, although I use it most of the time without any extern antenna plugged-in, and enjoy its high sensitivity.



# Endotronic



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Endotronic is the name of the company of mr. Hengstenberg. He is the first and oldest person with electrosensitivity in Germany, and knows exactly what that means. he cannot stand a computer and therefore does not have his Homepage. His postaddress is stated at the end.

From right to left we see first the **HF Digitmeter II**, with **AS2002** measuring antenna.

Seond the **VLF Spion** with telescopic antenna.

Third the **Esmog Spion**.

Fourth the **Profi Spion**.

And fifthly the **Profi Spion 2**. He is a bit thicker, because he holds the **Powerback 850 mAh**.

And completely left the **Terror Speaker 2**, and before that the **Terror Speaker 1** (the small one).

The **Endotronic** meters are developed mainly according to biological parameters like weather radiation (Sferics) and human nerve end tension values.

And therefore most interesting for electrosensible people and others who want to know what is going on in their vicinity.





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Here the **HF Digitmeter II** as I use it daily.  
 First the green **LogPer Antenne**, with which I can locate and pinpoint DECT phones in the vicinity very precisely.  
 Also of course the WLAN Router/Modems.  
 Secondly the white magnetic **Schleifen-antennas** in order to find \*HotSpots\* in side houses.  
 The loose cable has the **15 mm contact-antenna**.  
 With that I contact water in a glas to demonstrate what the blood in a persons head has to endure.  
 It is tremendously what can be heard, if obe places the contact antenna only a few mm in the bark of a tree.

In the middle the provided standard antennas.

Right top, the **Digitmeter** with the special **AS2002** measuring antenna, developed by Anton Stadtmüller, a radarspecialist.

To the right the loading transformer for the **Digitmeter**. Mark the small contact pin.

All **Endotronic-meters** run on 9 V Blockbatteries; Alkaline as well as loadable ones.

The loadable Ni-MH 9V Blockbatteries will be charged with these devices on the right side of the housing with this small plug.

Only my own **Esmog Spion** does not like recharable accus; in short notice he claims, \*empty.\*

But with the Alkaline batteries of Ikea he runs an eternity.

To the right the **VLF Spion** with its rod antenna, a telescopic one, like with the **Digitmeter**.

In front the aforementioned 15 mm contactantenna.

With that I found certain spurious signals on my cord-bound telephone at home.



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Above the **Esmog Spion** with contact- and 40 mm- antenna (especially for mobile phone), and the new **Profi Spion**, also with contact- and 40 mm- antenna.

The **Profi Spion** now possess a BNC socket, and in order to place the loose antennas in it, a BNC- adapter has been supplied, which will be needed also, to use the fixed telescopic antenna for general HF measurement. The small plug (with wire) must be placed in the adapter.

The BNC socket is important, in order to use other antennas, like for instance the aforementioned **LogPer antenna**, or the new **ball- antenna**.

Below an image from above.

The BNC socket is for **HF** measurements, the small aside for **NF** measurements.



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Here some antenna positions are shown.

Left the 40 mm HF antenna in the pertinent BNC- adapter- socket.

In the center the fixed telescopic antenna is used for HF- frequencies.

To the right, the telescopic antenna is used for NF- frequencies. (NF=low frequencies)

It is quite interesting in using the telescopic antenna in different lengths.

One is then looking into different frequency ranges.

I must confess, that my older **Esmog Spion** without any antenna is more sensitive than the new **Profi Spion** (without antenna). **Endotronic** made the **Profi Spion** less sensitive, so that in this polluted world, one may detect differences easier without too much fuss.

I live now in radiation-poor surroundings, and may judge the sensitivity locally better.

In the meantime I do know where there are sources are positioned, and I try to detect them sitting on my desk.

So I do know, that a neighbour opposite the street does have a DECT phone, which I hardly could find with other meters.

But direct with my **Esmog Spion**.

And not with the **Profi Spion** or the **Profi Spion 2**.

On the next page, the **Profi Spion 2** is shown as a prototype. He is thicker, because he has the **Powerpack 850 mAh** inside.

The small loose antennas are not used here. In stead the normal Digitmeter antennas are supplied (see page 4 image center).

Because it is a prototype, it is not clear whether it stays this way. Anyway, the second BNC-socket for NF can be seen, and a separate loading socket, but with the normal type, the one on the side will be used for recharging.

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What I like in this meter, is the fact that he has two BNC sockets.

So it is possible in using the **magnetic Schleifenantennas**, to find the Hot Spots.

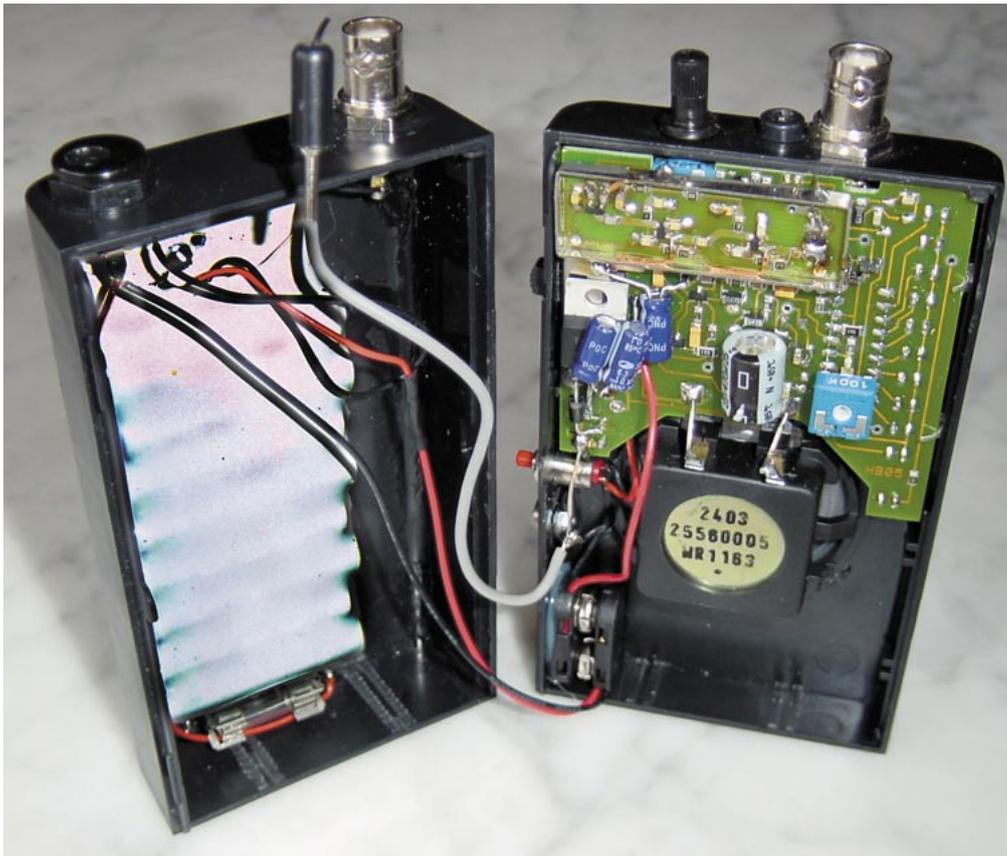
Sofar I could measure them only with my **Digitmeter II**.

I do not know any other meter, that can pinpoint those Hot Spots so precise..



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Above the opened housing of the **Profi Spion 2**. To the left the **850 mAh Akku**, and at right the connection by means of two battery-clips. Eventually, in case of an empty accu, one may connect a 9V blockbattery.  
Below to the comparison the normal **Profi Spion**.



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On page 4, the **AS2002 antenna**, a special measuring antenna, can be seen, designed by Dipl. Ing. Anton Stadtmüller . With the **Digitmeter II** and a table, the values read at the display can be converted to the commonly used  $\mu\text{W}/\text{m}^2$ .

Now, with his ideas from the radar technique, he has designed a **HF-/NF- ball antenna**. It can be used with the **VLF Spion NF**, **Profi Spion HF**, **Profi Spion 2** (Power Backup) **HF+NF** and the **HF Digitmeter II HF** (and with NF entry also **NF**).

Broadbandcharacteristics **NF** (1 Hz - 9 kHz)

Broadbandcharacteristics **HF** (10 kHz - einige GHz)

At playing around, I found a WLAN somewhere in the vicinity, which I did not detect with my other meters.

Dipl.Ing. Stadtmüller suggests, in placing the **ball antenna** in a dolls head, because women respond strongly to such a representation, when it is shown and demonstrated, what in the head of such a small, about 7-8 months old baby inside the mother's belly may receive as technical perturbative fields. For instance how strong a connecting mobile phone at 30 m distance here may be received and over loudspeaker + measuring value here may expressed.

With the **ball antenna**, different annoying and disturbing radio signals may be detected. Amazingly results are achieved when one uses the **ball antenna** as a contact antenna. Holded against f.i. a persons cheek, one gets very different results from one person to another, and demonstrates that one person acts more like an antenna like another.

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The in the Spion- family and Digitmeter used loudspeakers are limited to 9 kHz.

For connection to the headphone socket of the meters, there is now the brandnew **Terror Speaker 2**. See upper images.

On its side, there is a rocker switch.

When pressed down, the lower pressure chamber loudspeaker boosts frequencies of 400 Hz to 6 kHz.

In the upper position the hightone speaker boosts 4 kHz to 40 KHz.

It is excellent for demonstrations to let others hear what is present in their surroundings.

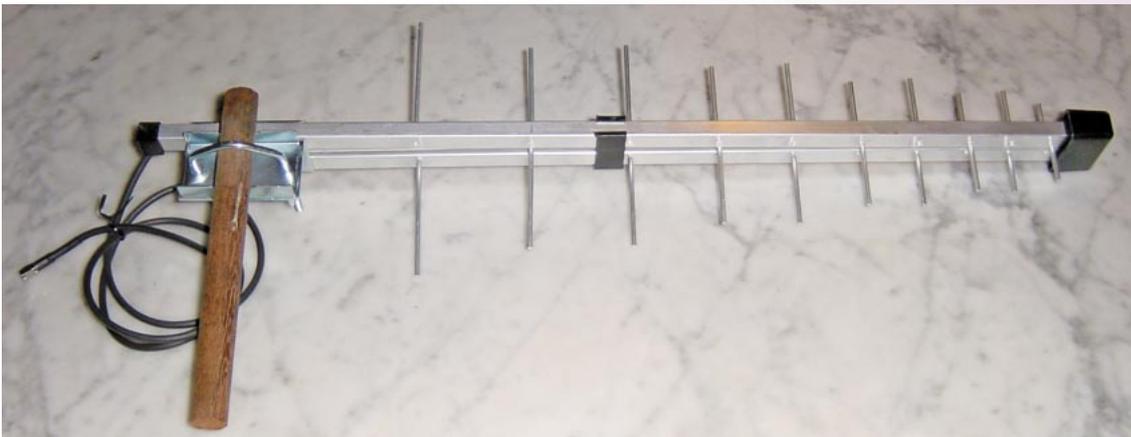
Separately there is the **Terror Speaker 1** (see below), which only screeches frequencies of 4 kHz to 40 kHz.

**People with Tinnitus identify here their own known sounds.**



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Both above antennas came from Gigahertz Solutions.

The first was thought after as **Broadband- antenna** for the HF Analyser HF59B, but without an amplifier, it did not give any pieps. (That is why they came with the UBB27) She reacts somewhat like the ball antenna. .

The second is a **focusing antenna LAT10**, for all HF Analysers. She locates all senders precisely. I have tried them both on the **Spionen**, and they both work there adequately.

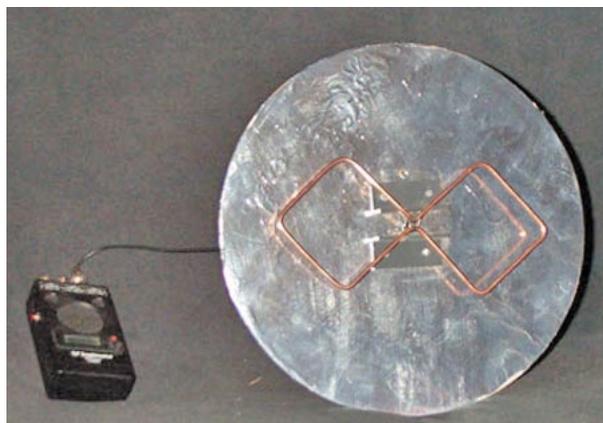
To the right an antenna, designed by mr. Bernd Schreiner and optimized for 1 GHz.

And right below a **Hornantenna** as it is used by someone in Switzerland on a Digitmeter II.

This antenna has been developed in amateur radio operator clubs and is often used as feed for illuminating a parabolic mirror. It is called an “exponential Hornantenna”; in the image one may see inside the horn a special rounded structure, which gives this antenna a great range of 1 to 10 GHz with some more reasonably impedance match (about 50 Ohm).

The antenna gain raises as such with the frequency and reaches at 10 GHz about 16 dB. Of course the direction sharpness of the antenna is raised simultaneously, so she should be pointed precisely in the direction of the source.

This antenna is commonly used together with a Mikrowattmeter, which allows measurements of very long waves up to 30 GHz (with options to 50 GHz).



For this antenna, a conversion table has been made, which allows a result in V/m or also W/m<sup>2</sup>. This antenna allows also the collection of signals starting at 100 MHz and far over 10 GHz, where the measuring results will be very inaccurately.

This equipment allows field strength measurements in the aforementioned frequency range of 0.01 V/m to 40 V/m !

As mentioned, this was conceived for amateur radio applications, and not for measurements of elektrosmog.

This as examples of what users of Endotronic equipment trouble themselves, and achieve remarkable results with their own built and constructed accessories.

From Endotronic there is also a **HF-Dämpfungsglied** 15 dB, an absorption piece. With that attached, the **Profi Spion** can measure levels at 30 times higher, which the **Esmog Spion** misses.

(The **HF Digitmeter II** has for that reason 3 BNC sockets; each one absorbs more)

In one of my build-biologically house investigations in the vicinity of an airfield, I was not able to find any radar signals with any of my meters. Probably, because they were over 6 GHz. However, when I searched some rooms with my **VLf Spion**, which can only receive signals between 5 kHz and 150 kHz, I found signals which were radar-alike, with those typical interval timings. Probably we have here stray frequencies \*riding along\* on main high frequencies, which I also found in another house with UMTS (3G) signals as \*riding along\*. They were also around the 30 kHz.

I want to suggest, that it is possible to detect many things with just listening to \*sounds\*. It is then not so important to know exactly how many  $\mu\text{W}/\text{m}^2$  is involved, more important to know about which type of radiation is involved.

When I drive around, and my passengers say it is here \*good\*, I pull my **Esmog Spion** out of my pocket, and indeed, no Diode is lighting, and there is almost no sound. When they later on observe, that it \*not good\* anymore, the **Esmog Spion** shows that correctly. He also shows perfectly on the streets, where there are DECT phones or WLAN modems in different houses.

On [www.milieuziektes.nl](http://www.milieuziektes.nl) under **Info** there are many \*Sounds\* as MP3 files.

Even of a Samsung mobile which is turned OFF; and when turned ON, without even calling..

For learning signals, there is a CD with sound examples by Dr.-Ing. Martin Virnich.

**The Esmog Spion and the Profi Spion are excellent tools for electrosensible people in order to examine their immediate vicinity, and to convince other people of the hazardous risks of pulsed high frequency signals.**



As a piece of news, the **Microwave Warner** must be mentioned.

Its range lies at 0.7 - 3 GHz.

Dimensions : 5 x 57 x 2 cm.

Beeper + Light-emitting diode display ca. every second.

On/Off switch.

Running: Diode yellow, beeper switchable separately.

1. Diode red = ca. 50  $\mu\text{W}/\text{m}^2$  min.

2. Diode red = ca. 1000  $\mu\text{W}/\text{m}^2$  min.

Accu 2,4 V rechargeable, suitable for longterm use.

For comparison:

The 1st diode lights, when also the 1st yellow of the Spion burns.

The 2nd diode lights, when also the 1st red of the Spion burns.

Application f.i. SMS-control of students by their teacher while in class, discrete control of vicinity in general, on holidays, etc.

Expected to be available in June.



Technical details on the products can be found at [www.priggen.com](http://www.priggen.com) .

Under PSE-online shop

- Umwelt- Messgeräte
- Elektromagn. Wellen (HF)

All available with:

**Endotronic** GmbH  
 Rosenhalde 8  
 D- 88260 Argenbühl  
 Tel.: +49-7566-465  
 and with:

**PSE- Priggen Special Electronic**  
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Painter IX, KPT 5, S-Spline 2.2 en veel fantasie [1938 was toch wel een goed jaar].

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