

NEW: SPECTRAN® HF-60100 V4: Sensitivity WORLD RECORD among Handhelds: -170dBm

@5,555GHz, PreAmp
on, 1Hz normalized



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NEW: HF SPECTRAN® series with new V4 revision >>>V4 Replacement / Upgrade special<<<

Dear customer!

You are probably aware of the many rumors regarding our new high-frequency spectrum analyzer **SPECTRAN® "V4"** in various technical publications. Many professional users are already enjoying the V4's features, now it is finally **available for SHIPPING to all regular customers!**

The V4 is not by any means a revised Rev.3 SPECTRAN®, but a **fully redeveloped instrument** which utilizes the full potential of our **patented spectrum analysis algorithm**:

The V4 **already baffled** professional customers (and, we guess, our competitors too!) at this year's Electronica Expo in Munich, surpassing even the most modern and most expensive "handheld" analyzers in terms of sensitivity - not just by a few dB, but by leaps and bounds (up to 20dB!).

We wonder, do you know a Spectrum Analyzer with better or comparable sensitivity of the HF-60100 V4, even if it's a High-End Desktop?

HARDWARE IMPROVEMENTS:

Compared to the HF-6060 Rev.3, our HF-6060 V4, HF-6080 V4 and HF-60100 V4 instruments deliver an **almost unbelievable bunch of improvements and new features**, depending on model:



- **Frequency range extended by 3.4GHz**, up to **9.4GHz**
- **Sensitivity increased by up to 80dB**, down to **-170dBm** (1Hz)
- **Vastly improved SampleTime, up to 100x faster**, down to **1mS** (new, **super-fast PLL**)
- **Super low-noise 15dB Preamplifier**, switchable via a TRUE RF switch (Option 020)
- **Vastly improved dynamic range** thanks to a **14Bit Dual ADC**
- **Significantly improved phase noise** (jitter) thanks to a new **0.5ppm TXCO** time base developed specifically for SPECTRAN® (Option 002)
- **Superscharfer DDC Hardwarefilter**, wie bei unseren NF-Modellen
- **Much faster DSP (150-MIPS)** with **significantly enhanced memory (128K)**
- **Improved IF filters**
- **Significantly increased demodulator bandwidth**, listening to broadcast stations is no problem anymore...
- **True switched attenuator with improved IP3** (switchable in **0.5dB steps!**)
- **Improved LCD display** with **more room for markers** among other improvements
- **Faster battery charger**
- **Many new features: PEAK/RMS detector, audio sniffer for detecting bugs / wire taps, EMC filter (9kHz, 120kHz etc.), enhanced limits display, new logger options, improved and enhanced demodulation modes etc.**



PRICING / MODELS / QUICK COMPARISON CHART:

HF-6060 V4 (10MHz-6GHz, **-150dBm**(1Hz), min RBW=10kHz) incl. HyperLOG 7060 for **€ 999.95**
HF-6080 V4 (10MHz-8GHz, **-160dBm**(1Hz), min RBW=3kHz) incl. HyperLOG 6080 for **€ 1298,-**
HF-60100 V4 (1MHz-9,4GHz, **-170dBm**(1Hz), min RBW=1kHz) incl. HyperLOG 60100 for **€ 1498,-**

Vorstandsvorsitzender: Stefan Chmielus, Sitz der Gesellschaft: DE-54597 Strickscheid, Handelsregister: Amtsgericht Bitburg

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Should you have received SEVERAL copies of this brochure, please inform us briefly so we can delete duplicate customer records. Thank you!

OPTIONS / ACCESSORIES:

Our popular options are **available right now** and will max out your SPECTRAN®'s full potential - at extremely fair prices:

Option 002 0.5ppm TCXO time base. Highly accurate, developed specifically for SPECTRAN. This time base permits the utilization of significantly narrower filters (in development) and is thus indispensable for reaching the maximum possible sensitivity. Furthermore, frequency display is far more accurate (standard=50ppm). **€ 199.95**

Option 020 Internal ultra-low noise 15dB pre amplifier. This preamp permits maximum performance, especially when analyzing extremely weak signals. It can be toggled via a TRUE RF switch. You can't go wrong with this one considering its price, including it in your order is almost MANDATORY. **€ 99.95**

Option 001 1MB memory expansion. This option is just as well almost mandatory, especially when using the internal data logger - the standard 64K memory won't last too long in this case. After installing this expansion, you will be able to log more than 10,000 data sets. **€ 99.95**

Option 20x 10GHz peak power meter (3 versions). This option transforms your SPECTRAN® into a power meter. In addition, it enables accurate measurement of signals with high crest factors, f.e. WLAN, or of very short signals like radar bursts. Measurement is performed in **REALTIME** and **BROADBAND**, while at the same time being **frequency- and temperature compensated**. **€ 149.95 to € 249.95**

IN THE NEAR FUTURE:

Further options, realized entirely in software, are in development. One example is an **active, frequency compensated broadband measurement mode** (patent pending), enhanced sensitivity by using **extremely narrow FFT/DFT filters** (TCXO Option 002 required!), and a **modulation-frequency display** for the optional REALTIME broadband power meter (Option 20x).

In addition, we are developing an ultra-low noise, extremely linear **external preamplifier** and a **new generation of BicoLOG-Antennas** with significantly higher gain (approx. 30-40dB) for EMC measurements.

UPGRADE SPECIAL: Upgrade now to the new SPECTRAN® V4:

We accept your old SPECTRAN® Rev1-Rev3 for trade-in, for a very fair price!

When ordering before **January 15, 2009**, you will receive:

5% INTRODUCTORY DISCOUNT on the **total list price** incl. options & accessories

50% of the original list price of the base unit

100% discount on OPTIONS (when doing a 1:1 replacement)

Simply fill in the attached price list/order form and send in your old instrument incl. case and **all accessories** directly to us. You will then receive your case incl. a **brand new instrument with fresh calibration, the newest available manual** and an **up-to-date firmware**. Of course, you could just as well upgrade to a **more sophisticated model** immediately, like our popular HF-60100 V4, or add a few useful options while you're at it (preamplifier, 0.5ppm timebase, power meter). Should you have any questions, please don't hesitate to call us, we will be more than happy to provide you with competent answers.

ATTENTION: Please remember that the closing date for this offer is January 15, 2009!

As always, our new **SPECTRAN® V4** range includes **10 years of warranty** and the right to return the instrument for up to **30 days after purchase**. So, just get your new V4 unit and test it thoroughly for up to 30 days - however, we think it is very likely that **you will be amazed!**

Exact technical specifications, up-to-date information about the current V4 firmware* and general information about our instruments, antennas and shielding / screening products are available as usual on our web site:

www.spectran.com

Sincerely, Aaronia



* At the moment the V4-series is available with our latest Beta-Firmware. The Beta-Firmware is in continuous development. Some functionality may still be limited and not fully to specifications. By regularly checking our homepage for updates, you can always keep your measurement device up-to-date. As soon as version 1.0 of the firmware is released, all functionality and features will be fully available.