

# New Products from Bonito

**Dennis Walter** contacted *RadioUser* to tell us about a number of new and updated products he will be bringing with him to the National Hamfest on September 26th/27th.

## RadioJet 1305PLUS



Bonito describes the RadioJet 1305PLUS as a next generation hybrid receiver. Dennis said, "The popular RadioJet IF-receiver has been vastly improved and expanded by an additional IQ-receiver that offers you a large panoramic display. Additionally, the frequency range has been extended beyond the short wave bands.

"We call this combination of various receivers and special control systems a 'Hybrid Receiver'. Now it has become possible to make use of different demodulation systems. At the same time, you can select different frequency bands and antennas. All these features make the monitoring of the bands a lot easier. As a further option, you can add another SDR of your choice.

"The main receiver corresponds to our successful RadioJet with its 24kHz-wide panorama. For the RTL-2832 IQ-receiver, two converters have been added to its mixer. That required a major extension of the software, which not only simply receives the frequency, for example, the 2m/70cm ham radio bands, but also decodes it to make the reception of satellite/FAX-pictures in the 136 to 138MHz range possible. You can also listen to FM-stations with the multiplex baseband and the RDS-text being displayed. Additional hardware was necessary for the frequency-controlled antenna switching. We also added an internal USB hub so you don't have to use the USB output of your PC."

Range: 20kHz to more than 1.6GHz  
Spectrum Display: 24kHz and 500kHz to 3.200MHz  
Modes: LSB, USB, CW, AM, FM, Stereo FM, Stereo Digital Radio Mondiale

## RadioJet Software 1.5

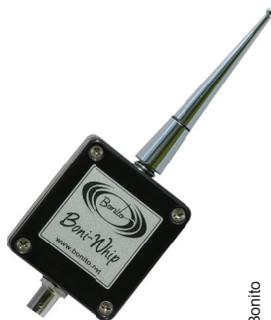
In addition to the RadioJet 1305PLUS, the long awaited Bonito RadioJet Software 1.5 was officially launched at HAMtronic 2014. Dennis said, "The software has

been completely revised and streamlined. Among several other innovations, optional decoders (weather FAX, RTTY, PSK, SSTV, CW and so on) are also available. The control of compatible hardware, for example, the AntennaJet ASM 300 antenna switch, is fully integrated; and so the user can not only control the antennas with the software but can also determine the frequency ranges which select the corresponding antenna. This is of great advantage when using the timer for recordings during the night."

## Boni-Whip Active Antenna

The Boni-Whip active antenna replaces the very successful Mini-Whip antenna. Dennis said, "Despite its size (only approx. 170mm long), it renders excellent reception results on long wave, medium wave and short wave and additionally for VHF up to 300MHz. We developed this antenna ourselves and it is built here in Germany, so it really is 'Made in Germany' by Bonito. The antenna offers a lot of improvements and better values than the original Mini-Whip."

Frequency range: 20kHz to 300MHz  
Voltage supply: 12 to 15V  
Gain: 3dB  
Upper Frequency Limit: (-1db): 300MHz  
IP3: +32.5dBm  
IP2: +55dBm



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## GigActiv 3005

The low noise GigActiv 3005 Ultra Wideband Active Antenna by NTi covers the entire frequency range from 60kHz to 3GHz. Dennis said, "This makes it especially attractive for owners of wideband receivers. The radiating element is only 100mm long and so the antenna can be erected very inconspicuously. The antenna can be operated with a voltage of 6 to 15V DC (max. 120mA). In addition, it also works with a special power supply module using only 5V via the USB cable. Therefore, it is very handy for mobile use but with a slightly reduced performance. On short wave around 7MHz and above 200MHz, the antenna achieves an IP of typically >+30dBm."



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## MegaLoop 060

The MegaLoop 060 is an active loop amplifier covering 20kHz to 60MHz and, with a slightly reduced performance, it can also be used for Band II FM. Dennis said, "Active loop antennas make predominantly use of the magnetic field component. As a result, they are very useful when reception is difficult because of electric interferences nearby or when using them as an indoor antenna. The standard version is an amplifier with a 5m-loop made of flexible litz wire. In contrast to rigid pipe constructions, the antenna can easily be transported which makes its portable use very convenient. The mounting of the loop is done by two stainless steel nuts with M5 thread. This kind of fastening allows for the fastening of other loop forms as well. There is also the possibility of switching the amplification (Low/High Gain), so it can be adjusted to the size of the loop. On short wave around 7MHz the antenna has an excellent IP 3 of typically +43dBm and an IP2 of >+70dBm with a voltage of 12 to 15V (max. 60mA)."

Dennis also added, "At the present time, a loop amplifier is being developed which has similar specifications but uses only 5V via the USB cable."



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## GI300 Galvanic Isolator

Dennis said, "The GI300 suppresses noise reaching the ground connections on the receiver. Through the use of wide band range of 30kHz to 300 MHz (typ. 1db insertion loss), it is universally applicable. With restrictions (-3dB) even up to 1GHz. In addition, a double over-voltage protection is integrated and input and output are blocked for DC voltage."



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