

What's NEW

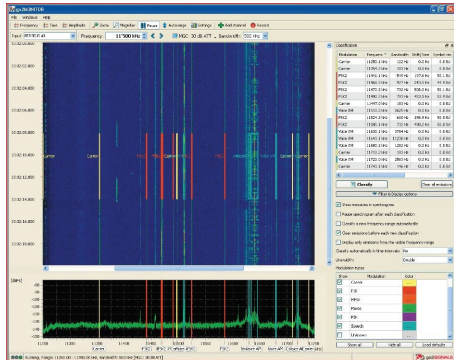
Tell them you saw it in Monitoring Times

Larry Van Horn, New Products Editor

New go2MONITOR Decoding Software Released

The European company go2SIGNALS has announced a new software package go2MONITOR. go2MONITOR is a modular software solution for receiver control, classification, demodulation, decoding and recording of HF, VHF and UHF signals.

New threats demand superior information, acquired and analyzed from all potential sources. The increasing density of cryptic signals produced by new or modified modems demands the use of sophisticated demodulation and decoding systems. The Go2MONIOTR software packaged is designed to meet that need.



go2MONITOR is an easy to use, automated interface for monitoring tasks. This single tool provides all the necessary processing steps, classification, demodulation, recording and decoding, in a fully integrated environment.

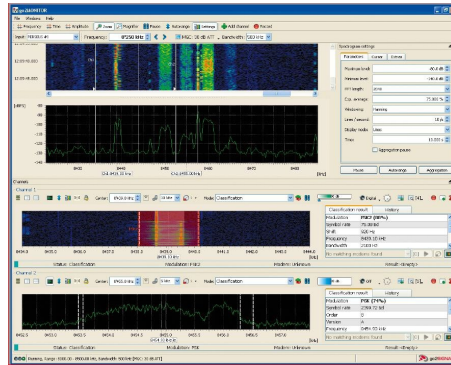
Some of the key features and benefits of this software package include:

- 1 MHz wideband input (spectrogram, Fast Fourier Transform (FFT) classifier).
- Automated classification and production using an extensive decoder library.
- State-of-the-art GUI includes window presets, drag and drop, and integrated station list.
- Integrated receiver control with direct Software Defined Radio (SDR) interface.
- Parallel processing of up to eight buffered Digital Down Conversion (DDC) production channels.
- Decoder Description Language (DDL) support. Expand your decoder list without sharing any information.

go2MONITOR enables the operator to monitor up to eight signals in parallel. Its automatic buffering of the complete wideband signal input allows easy switching to new signals without loss of information.

Known signals can be monitored easily thanks to the included station list and extensive decoder library. The available production channel will automatically process classification, recognition and decoding.

The identification and monitoring of new or existing signals is a primary task for telecommu-



nications administrations and homeland security agencies. Many modern telecommunication systems defy manual techniques, making the automatic go2MONITOR the obvious solution.

The Go2MONITOR package is a natural for the military COMINT and signals surveillance mission. "Out-of-area" operations in an unknown electromagnetic environment must be supported by monitoring and analysis. go2MONITOR is perfectly suited for rapid reaction task forces and advanced commands. All you need is go2MONITOR, a laptop, a receiver and an antenna!

In this day and age of exotic digital modes, go2MONITOR answers the call with the capability to decode the plethora of most the commonly heard digital signals heard today in the HF/VHF/UHF spectrums. These include:

HF Decoders – 2 channel ITA-2 RTTY, ACARS HF, Alcatel 801H, ALIS/ALIS 2, AMOR/AMOR 96, AMTOR, Annex-10, ARQ-1000 duplex, ARQ-28/58, ARQ6-90/98, ARQ-E Cyc4/Cyc8, ARQ-E3, ARQ-M1, ARQ-M2-242/342, ARQ-M4-242/342, ARQ-N, ARQ-SWE, ARTRAC, ASCII 7 Bit/8 Bit, AUTOSPEC, Baudot sync (1/2/3 stop bits), Baudot async, Baudot F7B, BEE, BF6 Baudot, BULG-ASCII, CCIR 242/342/422-2/476 A/B/493-4/518 Variant/519 Variant, CHU, CIS 10 11 11/11/12/14/20/36/36-50/405 3915/81/81-29/81-81/AT3104, Clover II/2000/2000 Broadcast/2500/2500 Broadcast, CODAN 3012 Chirp/Selcal/3012 16 Channel PSK/3212 16 Channel PSK/8580/9601 Chirp, CROWD-36, Coquelet13, Coquelet-8, Coquelet-8 FEC, Coquelet-80, Coquelet-100, Coquelet-Mk1, CW-Morse, DGPS, DSC-HF, DUP-ARQ, FEC-A, FEC12/100, FIRE, Frost, FROST1, FSK 400/500, F7B Baudot, F7B Morse, Globe Wireless FSK/PSK/Pactor, GMDSS, G-TOR, GOLAY, GW DATAPLEX, HFDL, HNG-FEC, ICAO Selcal, IRA-ARQ, ITA-2 Twin, MERLIN, MEROD, MFSK 8/16, Morse, MS5, MD674, NUM 13, Olivia, Packet 300-4800, PACTOR I/FEC/II/II FEC/III, Piccolo MK6/MK12, Piccolo 6/12, Pol-ARQ, PSK10/10-AM, PSK31/31-AM/31-FEC, PSK50-AM, PSK63/63-FEC, PSK125/125-FEC, PSK220-FEC, PSK250, QPSK31/63/125/250, RAC-ARQ, RACAL-ARQ, ROU-FEC, RUM-FEC, RS-ARQ, SI-ARQ/FEC, SITOR-A/ARQ/B/FEC, SP14, SPREAD 11/21/51, Saud-FEC, SWED-ARQ, T-600, TDM 242/342/342 1 Channel, TOR dirty, TORQ 10/11, Twinplex, Visel, YUG-MIL

V/UHF decoders – AIS, ACARS VHF, CCITT, CCIR-1/-2, CityRuf, CTCSS, DSC-VHF, DMR, dPMR, DZVEI, EEA, EIA, EURO, EURO5, FLEX, FMS-BOS, GMDSS-VHF, GOLAY Pager, MPT1316/1327, Modat, Natel, NMT450, Packet 1200/9600, PCCIR, PDZVEI, PZVEI, POCSSAG, Tetra, Tetrapol, VDEW, VDL 2/3, ZVEI/1/2/3

Premium decoders – ALE 2G, CHN 4+4, Haegelin-Cryptos, HC-ARQ, LINK 11 CLEW/SLEW, MD 522, MIL188-110A serial/App. C, MIL188-110B/App. C, MIL188-110 39 Tone, MIL188-141A/B, MIL-M-55529A, STANAG 4197/4285/4415/4481 (FSK/PSK) /4529/4539/4539 HDR/5065/5066/5511/5511 SLEW, TADIL A/B

Demodulators – AM, ASK2, ASK 2 PSK 8, ASK 4 PSK 8, CW, DPSK 2/4/8/A/B, F1A, F6, F7B, FM, FSK 2 matched filter, FSK 2/3/4, GMSK, MDPSK 2/4, MFSK 2, MPDK 2/4, MSK, Multitone (FSK), OFDM, PSK 2/4/8/A/B, QPSK, QAM 16/32/64/128/256, TFM 3, USB/LSB

go2MONITOR Specifications

OS - Windows XP/7

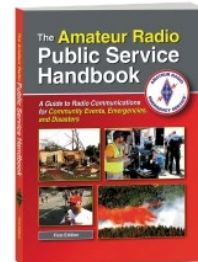
Data - Digital IF (complex baseband I/Q 32bit), Bandwidth <= 1MHz

Documentation - Printed user manual / PDF Online-Help
Recommended PC hardware - Minimum Intel I5 2 Core, 4 GB RAM, 8 GB for eight channel version, screen resolution 1900x1080 or two displays 1280x1024 pixels
Supported receivers - Perseus, R&S EM 100, IZT R30XX, R32XX, R34XX, WinRadio, RF-Space (extending continuously)

The go2MONITOR software package is available for government purchase and export only (due to FCC sale restrictions). Contact Grove Enterprises at 800-438-8155 in the U.S. and Canada only or 828-837-9200/FAX 828-837-2216, 7540 Highway 64 West, Brasstown, N.C. 28902 for more information and ordering.

Amateur Radio Public Service Handbook

As we approach the severe weather season here in the United States, the amateur radio community gears up to provide their special brand of support communications.



Amateur radio has consistently been the most reliable means of communications when other systems have failed. Hams work closely with disaster relief agency officials from FEMA, the American Red Cross, the Salvation Army, and other response organizations to offer wireless communications aid.

From wildfires and earthquakes to marathons and road races, when getting the message through is critical, ham radio works.

The new ARRL *Amateur Radio Public Service Handbook* is for all hams that volunteer their time and skill to serve their communities. It provides knowledge needed for communicating quickly and effectively during disasters, emergencies, and community events, as well as an opportunity to learn more about the Amateur Radio Service and its unique role in supporting the public.

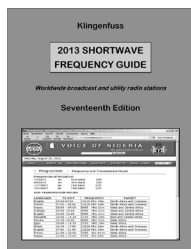
Some of the topics covered include:

- The ARRL & ARES
- Served Agencies
- Training and Readiness
- Nets and the National Traffic System
- The Response
- Public Service
- Digital Modes
- Other Relevant Organizations

This 304 page softcover ARRL book retails for \$40 and is available from amateur radio dealers nationwide.

Klingenfuss 2013 Shortwave Frequency Guide

The 17th Edition of the 2013 Shortwave Frequency Guide, one of five annual radio reference books and CDs available from Klingenfuss Publications, has recently been released.



This year's 376 page book begins with a general overview of radio observations by Joerg Klingenfuss (author/publisher), followed by a section devoted to monitoring utility stations. This chapter will be of special interest to utility listeners and includes a basic explanation of the various aspects of utility monitoring and a by-frequency listing of stations with call signs, station name, mode and details.

The heart of this book and its primary focus is on shortwave broadcast stations, frequencies, and schedules. The 2013 Shortwave Frequency Guide covers the latest 2013 schedules for worldwide clandestine, domestic, and international broadcast stations, which are derived from the Klingenfuss 2013 Super Frequency List on CD.

The broadcast radio stations by frequency section, contains introductory material and a segment devoted to Digital Radio Mondiale (DRM) that includes a comprehensive list of DRM schedules, and a brief look to the future of shortwave and the debate over its decline. A three-page chapter on Internet, SATCOM and HF Radio, features an interesting evaluation of the censorship of the Internet in dictatorships.

The by-frequency list covers frequencies from 2310 kHz to 26060 kHz. Each frequency listing includes the station name, location, start and end times of each broadcast, language, target area, and selected remarks.

If you are focusing on a particular country of interest, the by-country section of the book, labeled the "Alphabetical List of Broadcast Radio Stations" in the Table of Contents, will be of particular interest.

Frequency information for international broadcast stations, clandestine, and domestic stations are accurate at time of publication and include seasonal frequency adjustments.

Klingenfuss uses a volunteer staff of worldwide radio listeners and broadcasters that contribute information to this publication and keep the information accurate and up-to-date.

The easy-to read book is a real asset at your listening post, regardless of whether you

monitor the utility bands or enjoy programming from shortwave broadcast stations. The 2013 Shortwave Frequency Guide is an excellent annual publication for the beginner or experienced radio hobbyist who seeks a complete HF spectrum reference book (utility/broadcast station listings). This is a basic no-frills radio reference guide. The book easily opens and remains open at the selected page for easy reference at your receiver. This year's edition, as in past years, is a fine addition to my listening post.

To order the 2013 Klingenfuss Shortwave Frequency Guide book, go to the Klingenfuss website at www.klingenfuss.org or order from Universal Radio at www.universal-radio.com, or via phone 1-800-431-3939; Fax 1-614-866-2339. Postal mail to: Universal Radio, Inc., 6830 Americana Parkway, Reynoldsburg, OH 43068-4113 USA. From Universal order book number 5958 for \$50 plus shipping and handling. — Gayle Van Horn, W4GVH

Sangean WR-22 FM-RBDS/AM/USB/Bluetooth Digital Receiver

Sangean has released their latest entry into the growing home audio field: the WR-22.

The system's versatility is right in tune with the various ways we get our music today. There's a built-in AM/FM-RBDS (Radio Data System) radio. With custom system packages, you can also enjoy music from your iPod or iPhone, even your computer, tablet or any Bluetooth device as well as the expanded connections include a USB port for playing MP3/WMA files from USB drive.

With Bluetooth wireless technology, simply switch to the Bluetooth source and after initial pairing, start listening to your favorite music wirelessly. It's that simple with the WR-22.

Whether you own a Smartphone, iPod, tablet or PC, you can enjoy your music without the constraint of extra cables. The advanced AM/FM-RBDS tuner displays useful information such as song titles and artists. Additional features include snooze, adjustable tuning step, dual alarm timer by radio, buzzer or Media (by USB), and dynamic bass compensation for richer bass, rotary bass and treble control

The WR-22 has a black piano or dark walnut finish and is easy to operate. The WR-22 features an easy-to-read extra-large, backlit custom LCD display with adjustable dimmer.

Receiver Specifications

- 10 Station presets (five FM, five AM)
- Easy To read high contrast LCD display with automatic and adjustable backlight
- Built-in Bluetooth wireless audio streaming
- Clock available for FM RBDS-CT
- Two alarm timer by radio, buzzer or media (by USB)
- Settable alarm volume HWS (Humane Wake System) buzzer and radio
- Adjustable nap timer
- Adjustable sleep timer
- Snooze function
- Adjustable tuning step



- USB MP3/WMA playback
- Loudness on/off
- Bass and treble controls
- Dynamic bass compensation for rich bass
- Rotary bass and treble control
- FM stereo on line out and headphone
- Three inch seven watt full range speaker with enlarged magnet
- I/O Jacks: DC-in, AC-in, Aux-in, Subwoofer out, headphone and FM F terminal+ AM ANT-in (USA)
- External or internal antenna selection
- Fully functional infrared remote control

The WR-22 retails for \$180 and is available from many retailers' online and local home audio stores.

Icom ID-51A Dual Band HT

The Icom ID-51A has just been released from Icom America and it may be the most hi-tech dual band HT in the world. It covers 2 meters and 440 MHz and receives two bands simultaneously (V/V, U/U & V/U). It is IPX7 waterproof and features a built-in GPS. The 128 by 104 dot-matrix display is impressive. This radio has an astounding 1304 channel alphanumeric memory system.

There is a Micro SD card slot for an optional memory card. This can be used to store DVR Incoming/Outgoing Messages, GPS Log and Memory Backup. There is built-in CTCSS/DTCS encode/decode for analog FM. It even features an independent AM and FM broadcast receiver. A new Voice Memory feature records incoming and outgoing calls and can be used as a voice recorder.

This slim body HT has a five watt output and a rich D-STAR and integrated GPS receiver feature set.

As mentioned above FM and AM broadcast stations can be monitored while using the dual watch function for monitoring VHF/UHF ham bands. When a ham band signal is received, the broadcast station is automatically muted.

When receiving a call addressed to your call sign, this function automatically transmits your current position information. If the radio loses the GPS signal, the last position information with date and time information can be sent.

The U.S. version includes the BP-271 battery, SMA flexible antenna, MB-127 belt clip, strap and BC-167SA wall charger. The unit measures 2.3 x 4.2 x 1.1 inches and weighs 9 ounces.

The ID-51A retails for \$756 with a lower street price around \$640 from Universal Radio, a *Monitoring Times* advertiser.

Books and equipment for announcement or review should be sent to What's New, c/o Monitoring Times, 7540 Highway 64 West, Brasstown, NC 28902. Press releases may be faxed to 828-837-2216 or emailed to Larry Van Horn, larryvanhorn@monitoringtimes.com.

When ordering or inquiring about the products mentioned in this column, be sure to tell them that you saw it in the pages of *Monitoring Times* magazine.