

THE WORLD OF RADIO, RIGHT INSIDE!

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2012-2013

**A special supplement to Monitoring Times** 



# **Explore** - the -Spectrum



#### Tune your transceiver, scanner, or HT outside the ham bands to hear:

- Shortwave broadcasting
- Government and military communications
- In-flight aircraft
- Ships at sea
- Public safety
- Tactical and scientific satellites
- ...and more

Every month Monitoring Times brings you informative articles written by experienced hams and other radio experts to help you sharpen your listening skills – The latest frequency information, loggings of activity, in-depth reviews of radio equipment and accessories, background stories and schedules of international radio broadcasters, internet radio, amateur radio, and even antique radio.

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# SEE More and HEAR More!

# With the SR2000A and AR8200MkIII from AOR

#### **SR2000A Color Frequency Monitor**

The SR2000A is an ultra-fast spectrum display monitor that lets you SEE received signals in FULL color.

Using the power of FFT (Fast Fourier Transform) algorithms with a sensitive receiver covering 25MHz ~ 3GHz\*, the SR2000A features a color monitor that displays up to 40MHz spectrum bandwidth\*\*, a switchable time-lapse "waterfall" display or live video in NTSC or PAL formats.

Ultra sensitive, incredibly fast, yet easy to use with a high quality internal speaker for crisp, clean audio signals. Scans 10MHz in as little as 0.2 seconds! Instantly detects, captures and displays transmitted signals. PC control through RS232C serial port or USB interface. With 12 VDC input, it's perfect for base, mobile or field use.





#### **AR8200MkIII Handheld Receiver**



From inter-agency coordination to surveillance, you can't know too much. The world-class AR8200MkIII portable receiver features a TXCO that delivers solid frequency stability and performance not found in most desktop units. With 1,000 alphanumeric memory channels, it covers 500 KHz ~ 3GHz\*. Improved RF circuits combine greater sensitivity, resistance to intermod and enhanced Signal to Noise ratio. It offers increased audio frequency response and includes NiMH AA batteries that can be charged while the unit is in use.

Optional internal slot cards expand the AR8200MkIII's capabilities. Choose from Memory Expansion (up to 4,000 memories), CTCSS Squelch and Search, and Tone Eliminator.

The AR8200MkIII offers "all mode" reception that includes "super narrow" FM plus wide and narrow FM in addition to USB, LSB, CW and standard AM and FM modes. It also features true carrier reinsertion in USB and LSB modes and includes a 3KHz SSB filter. The data port can be used for computer control, memory configuration and transfer, cloning or tape recording output.

A special government version, AR8200MkIII IR features infra-red illumination (IR) of the display and operating keys. The IR illumination function is selectable, allowing operation by users wearing night vision apparatus without removing goggles and waiting for the eyes to re-adjust. Ideal for military, law enforcement and surveillance operators.



**AOR U.S.A., Inc.** 20655 S. Western Ave., Suite 112, Torrance, CA 90501, USA Tel: 310-787-8615 Fax: 310-787-8619

Tel: 310-787-8615 Fax: 310-787-8619 info@aorusa.com http://www.aorusa.com

\* Government version, cellular blocked for US consumer version.
\*\*No audio is available when the frequency span is set to 20MHz or 40MHz.
Specifications subject to change without notice or obligation.

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As you peruse the pages of our newest catalog you will see many new additions. The technology of communications continues to evolve, and radio receiving equipment has had to keep up with the pace.

Software defined receivers (SDRs) are clearly the architecture of the future, and outstanding examples are here today. WiNRADiO's G39DDC has established a true benchmark in radio reception techniques.

Uniden's HomePatrol scanner continues to amaze VHF/UHF listeners with its built-in nationwide database and easy online updating. GRE offers their hand-held PSR800 with similar database features.

Many models of shortwave portables entice global listeners

to enjoy international news perspectives on world events as well as music from all nationalities.

Scanner manufacturers are moving forward with new models to keep up with federally-mandated narrowband modulation and the growing use of 700 MHz public safety communications channels, previously unavailable on many long-time favorite scanners. Be sure your scanner is capable of following these new specifications.

To keep up with the latest trends in communications, be sure to renew your subscription to Monitoring Times. The print version can be kept at your side for immediate reference, and Monitoring Times Express (MTX), our rapidly-growing electronic version, can be called up on your computer or tablet reader.

As always, you can count on your Grove team to be on your side, offering the best values on the best products, with our well-respected technical support always available to make sure you get what you need.

Bol Judy Shove

#### GOVERNMENT, MILITARY, and PROFESSIONAL CLIENTS

Our web site is the primary source of information for our many government and professional clients. Full-frequency-coverage scanning receivers, high-end reception equipment, accessories, test equipment, and other products for eligible agencies will be found at www.grove-ent.com.

Due to rapidly-fluctuating changes in the international economy, printed prices are subject to change without notice.

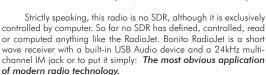
# RECEIVERS

#### Bonito RadioJet 1102S

The new Bonito shortwave receiver RadioJet 1102S combines innovative design with the advantages of modern computer technology. It has a frequency range of 40 kHz to 30 MHz with an excellent sensitivity of .03  $\mu$ Volts on a noise level of -137 dBm with an extreme

sensitivity of 1.03 µVoits on a noise level of -1.37 dbm with an extreme resolution of 1.44 dB at a bandwidth of 24kHz. The Noise floor is extremely low, because there are no active parts between the antenna and the ADC.





**Order RCV71 Only \$699.95** 

#### **PERSEUS SDR**

Measuring only 4-1/4"W x 1-1/2"H x 7-1/4"D, and weighing a mere 13 ounces, the software-defined Perseus is high-performance, 0.39 uV sensitivity, 10 kHz-30 MHz, all-mode communications receiver with  $+31~\mathrm{dBm}$  IP3, 100+ dB dynamic range, and 90 dB

image rejection for overload immunity.

It features a lab-grade spectrum analyzer function with a

span of up to 800 kHz (1600 kHz software upgrade expected soon) and a resolution bandwidth adjustable from 0.4-800 kHz. Optional frequency extenders for VHF and UHF are being released as well.



Order RCV57 Only \$999.95



#### ICOM R-75

#### **FEATURES**

The IC-R75 is capable of AF-DSP with a factory installed DSP plug-in module. It offers noise reduction, and auto notch filter capabilities. • Coverage: 0.03 - 60 MHz (0.1-29.99 and 50-54 MHz guaranteed) • Modes: AM, S-AM, FM, USB, LSB, CW, RTTY • Triple conversion superheterodyne receiver • The IC-R75 sports cutting edge technology for today's serious DX'er, yet it is easy and affordable



enough for casual listener use. •Get PC control of the IC-R75 with optional RS-R75 software on CD ROM. Runs on MS Windows® and comes with the necessary connection cable. •With its superior dynamic range of >104 dB, twin passband tuning (PBT) controls, and a large front mounted speaker, the IC-R75 offers unparalleled receive quality. •Selectable RF gain/squelch control / Attenuator / 1 Hz tuning resolution / 2 level preamp / Selectable AGC / Three timer functions: sleep, power OFF, power ON / Noise blanker / Single touch controls / 12 V DC Power (120 V AC adapter included) / Voice synthesizer (optional)

Supplied Accessories: AC adapter cable or DC power cable (depending on version), Spare fuse

Suggested	<b>Accessories:</b>

ANTO8 - Par Shortwave Antenna	.\$74.95
ANT15 - LF Engineering H-800 Skymatch Active Antenna	.\$159.00
ANT27 - LF Engineering H-900 Gain Probe Antenna	.\$189.00
SFT24 - ICOM RS-R75 Remote Control Software	.\$79.95

**Order RCV32 Only \$719.95** 

#### AOR 8600 MkII

Wideband, compact, multimode—all in one versatile package! Redesigned for improved sensitivity, dynamic range, internal rejection and audia quality. The AR8600 Mk II covers 100 kHz to 3000 MHz (less cellular on consumer models), and can be used mobile, base, or trans-portable. All-mode receive capability is combined with enormous operational flexibility, including computer control capability.



LSB, CW • High-stability TCXO·SSB with true carrier re-insertion • Versatile band scope with save-trace facility, Twin frequency readout with bar signal meter • Improved front end with VHF preselection • Detachable MW bar aerial•

On/off display dimmer • Tuning steps programmable in multiples of 50 Hz in all modes• Noise limiter & attenuator • Write protect & keypad lock • Programmable scan & search • RS232 computer socket, Flash-

Order RCV11 Only \$989.95 ROM memory (no battery required) • Slot card sockets for AOR accessory upgrades

#### **Suggested Accessories:**

ACC22 - AOR P25-8600 APCO 25 Decoder	\$249.95
ACC24 - CT8200 CTCSS decoder	\$119.95
ACC25 - TE8200 tone eliminator	\$74.95
ACC27 - EM8200 extended memory card	\$99.95
ANT39 - AOR SA7000 Base/Portable Ant	\$269.95
BRK01 - Mobile Mounting Bracket MM8600	\$104.95
DCC01 - DC8600 DC cigarette lighter cable	\$12.95
FTRO2DS - Collins Mechanical Filter (2.5kHz)	\$109.00
FTRO4DS - Collins Mechanical Filter (6.0kHz)	\$109.00
PWR01 - AOR AA8600 AC Power Supply	\$43.00

Government agencies order RCV11-G

#### More Receivers:

DCV//O	4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
RCV60	AOR AR2300B (BLOCKED)\$3,809.95
RCV60-G	AOR AR2300 (UNBLOCKED) only available to government agencies\$3,809.95
RCV01	AOR AR-ALPHA (BLOCKED)\$10,499.95
RCV01-G	AOR AR-ALPHA (UNBLOCKED) only available to government agencies \$10,499.95
RCV12-G	AOR AR-ONE (UNBLOCKED) only available to government agencies\$5,399.95
RCV13-G	AOR AR-ONE-C (UNBLOCKED) only available to government agencies\$5,499.95
RCV36	AOR SR2000A (B) FREQUENCY MONITOR\$3,199.95
RCV36-G	AOR SR2000A (UNBLOCKED) FREQ MONITOR - only available to government agencies\$3,199.95
RCV24-G	AOR SR2200 (UNBLOCKED) only available to government agencies\$1,629.95
RCV27	ICOM IC-R9500 02 (BLOCKED)
RCV27-G	ICOM IC-R9500 06 (UNBLOCKED) only available to government agencies\$13,999.95
RCV70	GRUNDIG S450DLX FIELD RADIO\$99.95
RCV58	GRUNDIG SATELLIT 750\$299.95
RCV37	KAITO KA1121\$149.95
RCV61	KAITO KA801\$79.95

#### *AOR AR5001D*

The long-standing, highly-respected AR5000 has been replaced by the new AR5001D. Is there much difference? You bet there is - the AR5001D is like an AR5000 on steroids! With continuous frequency coverage from 40 kHz-3150 MHz (3.15 GHz), this new receiver can search or scan 2000 alphanumeric memory channels at a lightning-fast speed of up to 1000 channels per second! It can receive up to three different frequencies simultaneously, and can show



real-time signal activity on its built-in spectrum display with a span up to 15 MHz wide!

Computer control this receiver through its RS232 or USB 2.0 ports, and record signal contents on an SD card! Reveal NTSC or PAL wireless surveillance cameras by attaching an appropriate analog monitor to the AR5001D video output jack. Select IF bandwidths from 200 Hz-300 kHz, and process the signal with an automatic notch filter, noise reduction and noise blanking, and even a speech inversion descrambler (not available on consumer model).

#### Suggested Accessories:

ACC08DS - P25-2300 APCO25 decoder	\$249.95
ACC31DS - IQ-5001 I/Q interface w/control software	\$699.95
ACC32DS - GP-5001 External GPS and interface unit	\$429.95
ACC33DS - ARL2300 External IP control unit	
(Static IP address required)	\$849.95

Order RCV68 Onlv \$4499.95

Government agencies order RCV68-G

**Order RCV55** 

Only \$89.95

#### Kaito KA-1103

Kaito's latest entry into the multiband portable market may look like an analog-dial radio, but it's actually a precision PLL circuit with 1 kHz steps and

digital LCD readout! It tunes 76-108 MHz FM and also continuous 522-29900 kHz AM and shortwave—and it has infinite clarifying SSB as well!

This powerful, dual-conversion portable also has 190 memory channels (10 pages of 19) + 1 page for SSB to store your favorite stations, and runs off 4 Ni-MH AA rechargeable batteries (included) and AC; an automatic charger/adaptor is provided.

ANT 45 - Grove Flex-Tenna™	\$14.95
CBL09 - F Male ~ F Male Coax (3')	\$1.25
ADP05 - F FEMALE TO MALE 1/8" MINI ADAPTER	\$2.99

This catalog has the most popular Grove items, but we sell a LOT more products! Visit our website at

ve-ent.com

#### Sangean ATS909X (White or Black)

- 406 Presets (FM 3 Pages: 27 Presets / LW 1 page: 9 Presets / MW 2 Pages: 18 Presets / SW 39 Pages: 351 Presets) + 1 Priority Preset
- Five Tuning Methods: Direct Frequency Tuning, Auto Scan, Manual Tuning, Memory Recall and Rotary Tuning
- ATS (Auto Tuning System) Auto Scan and Preset Priority Signal Strength in FM / MW / LW Bands
- FM RDS / RBDS with PS, PTY, RT and CT Features
- DSP IF Decoder
- Large LCD Screen with Bright White LED Backlight
- · Automatically Searches for Strongest Signal Station within SW Station Pages
- Alarm: Radio or HWS (Humane Wake System) Buzzer

# klight attion within SW Station Pages Only \$259.95

#### Sangean ATS505P

Sangean's ATS505P is a dual-conversion portable with continuous coverage from 150 kHz-30 MHz as well as 88-108 MHz FM (stereo with earbuds, included), with AM and USB/LSB reception, and even includes an AC power supply and reel antenna. 45 scannable memories allow automatic sampling of saved frequencies, while auto preset determines which signals are the strongest for reception. Frequencies may be entered directly with the keypad, or continuously adjusted with the tuning dial.

Illuminated display shows frequency, 12/24 hour time, adjustable sleep/timer offers gradually-increasing alarm level; entire panel may be locked out to prevent misadjustments.

ANT 45 - Grove Flex-Tenna™	\$14.95
CBL09 - F Male ~ F Male Coax (3')	\$1.25
ADP05 - F FEMALE TO MALE 1/8" MINI ADAPTER	\$2.99



Order RCV07 Only \$109.95

#### SANGEAN WFR-1 AND WFR-20 WiFi INTERNET RADIO

The Sangean WFR-1 offers the ultimate in Internet Radio listening. Load your favorite stations into memory; play your MP3 music files through its high-quality stereo system; listen to virtually every music mode from around the globe; monitor police communications, fire emergencies, even aircraft communications as more and more become available—all in clear, static-free sound!

- High Quality Full Range 3" Stereo Speakers in Acoustically Designed Wooden Cabinet
- Stereo Headphone Jack
- FM tuner with RDS (RCV56 only)
- Aux In/Line Out
- Remote Control
- 12.7 W x 4.2 H x 8.2 D, Weight: 6.4 lbs.

RCV56 - \$279.95 RCV40 - \$239.95 (No FM)



#### **GRACE WIFI RADIOS**



Play Internet radio, music services, itunes and windows media player in any room of your house

The new Grace Wi-Fi Stereo Micro System (GDI-IRMS300) is perfect for your apartment, den or office. Listen to and create Pandora stations, NPR, Rhapsody, your local and international AM, FM and HD radio stations, iheatradio and even Sirius XM Internet radio without a satellite dish. Direct from your broadband DSL or cable internet connection. No computer needed.

Grace Wi-Fi Micro System GDI-IRMS300 - \$209.95

Both units share the same features. The Innovator X has a quality built-in speaker, and the Solo needs an amplifier to be able to listen to the stations.

- speaker, and the Solo needs an amplifier to be able to listen to the stations
   Listen to over 50,000 Radio Stations, Podcast, and on demand content
- Music services: Pandora, Live365 and PREMIUM SiriusXM internet radio
- · Compatible with the Grace iPhone" / Touch remote control application

Grace Innovator X GDI-IR2600 - \$139.95



- 4 line high contrast backlit display
- Displays Station, Song Title & Artist info
- Full function remote w/ 10 presets
- 10 presets on the radio + 99 station folder

Grace Solo GDI-IRA500 - \$109.95



# SCANNERS

Hand-Held Base/Mobile Wide Frequency Coverage

#### THE UNIDEN HOMEPATROL!

The most astounding advance in scanner technology since digital reception now self loads at any location in the U.S. or Canada! Simply enter a zip code or city name or even attach your GPS receiver for automatic loading of police, sheriff, fire, ambulances, highway patrol, and more!

Monitor conventional trunked radio systems, analog or P25 digital, and AM or FM modes for CB, aircraft, hams, public safety, business, government, and military communications in the 25-54, 108-512, 758-960 MHz ranges (less cellular).



Get online updates with the USB port. Record up to 4 minutes of received messages. Select the S.A.M.E. emergency weather alarm for vital bulletins in your area.

Accessories included: AC Adapter (9V 800mA DC Out), DC Adapter (9V 800mA DC Out – Cigarette Lighter type), AA size NiMH Rechargeable Battery (2300mAh X 4), Rubber antenna (SMA type), USB cable (USB A to USB Mini B Type) (2GB), Desk Use Bracket (Stand Type) AC adapter/charger, DC adapter, desk Stand; USB cable; 4 NiMH rechargeable batteries (AA); quick reference guide.

ADP33 - BNC FEMALE TO	SMA MALE ADAPTER		\$3.99
CBL18 - BWZY1227001 SE	RIAL CABLE		\$14.95
BRK05 - WBHP1 Windshield	Mounting Kit for Ho	mepatrol	\$39.95
BRK04 - Mobile mounting b	oracket kit		\$11.95
GPSKIT - GARMIN GPS18X	PC KIT		\$109.9

**Order SCN55 Only \$489.95** 

#### **Uniden BCD396XT Handheld Trunk Tracker**

TrunkTracker IV with Control-Channel Only scanning and I-Call monitoring: Tracks voice traffic on P25, Motorola, EDACS, and LTR Trunked systems / Support for P25 Conventional channels that include NAC and TGID user differentiation (P25 One-Frequency Trunk) / EDACS ESK support / Close Call RF Capture

Supplied Accessories: RS-232 PC Cable, Wrist Strap, AC Charger/Power Supply, 3 AA NiMH, Belt Clip, SMA Antenna, SMA-BNC Adapter.



#### Suggested Accessories:

CAS13 - Hard leather case w/ swivel clip	CASU9 - Universal hylon carrying case w/strap	\$19.95	
CBL14 - Uniden USB-1 USB Cable\$24.95 ANT50 - Procomm CD144MBN Mobile Antenna \$19.95 DCC03 - DC to DC Universal Adaptor\$12.95	CAS13 - Hard leather case w/ swivel clip	\$29.95	
ANT50 - Procomm CD144MBN Mobile Antenna\$19.95 DCC03 - DC to DC Universal Adaptor\$12.95	CAS14 - Hard Leather Case w/ belt loop	\$19.95	
DCC03 - DC to DC Universal Adaptor\$12.95	CBL14 - Uniden USB-1 USB Cable	\$24.95	
	ANT50 - Procomm CD144MBN Mobile Antenna	\$19.95	
DCC19 - Uniden UA-72 DC Power Cord\$19.95	DCC03 - DC to DC Universal Adaptor	\$12.95	
	DCC19 - Uniden UA-72 DC Power Cord	\$19.95	

Order SCN53 Only \$429.95

#### **Uniden BCD-996XT Mobile Trunking Scanner**

TrunkTracker IV with Control-Channel Only scanning and I-Call monitoring: Tracks voice traffic on P25, Motorola, EDACS, and LTR Trunked systems / Support for P25 Conventional channels that include NAC and TGID user differentiation (P25 One-Frequency Trunk) / EDACS ESK support / Close Call RF Capture / Coverage: 25.0000 - 512.0000, 758.0000 - 823.9875, 849.0125 - 868.9875, 894.0125 - 960.0000, 1240.0000 - 1300.0000 MHz



**Supplied Accessories:** Serial Programming Cable, AC Adaptor, DC Cord, 3 Wire Harness, Mounting Bracket w/screws, Whip Antenna, User Manual, on CD, DIN / ISO In-Dash Mounting with included DIN-E sleeve.

#### **Suggested Accessories:**

ANT50 - Procomm CD144MBN Mobile Antenna	\$19.95
SFT19 - Scancat Lite	\$29.95
CBL14 - Uniden USB-1 USB Cable	\$24.95
DCC03 - DC to DC Universal Adaptor	\$12.95

Order SCN21 Only \$444.95

#### **Uniden BCT-15X**

TrunkTracker III for Motorola Type I 800, Motorola Type II 800, 900, UHF, VHF (including rebanded 800 MHz systems), EDACS Wide (standard), Narrow, SCAT (including systems that use an EDACS System Key), LTR / State-by-State Preprogrammed



Channels - let you easily keep up with activity on local police, Department of Transportation, and Highway Patrol frequencies when you travel, without having to program any channels. / Close Call, with Close Call Do Not Disturb, Close Call Priority (or Primary), and Close Call Temporary Store.

Accessories included: Serial Programming Cable, Ac Adaptor, DC Cord, 3 Wire Harness, Mounting Bracket w/screws, Whip Antenna, User Manual on CD.

Suggested Accessories:

ANT50 - Procomm CD144MBN Mobile Antenna	.\$19.95
CBL14 - Uniden USB-1 USB Cable	.\$24.95
DCC03 - DC to DC Universal Adaptor	.\$12.95

Order SCN31 Only \$189.95



#### **Uniden BC-125AT**

NEW! Uniden BC125AT hand-held, bargain-priced scanner! Intended for general purpose listening to public safety, business, railroad, ham, CB, civilian and military aircraft, and other analog communications. This new scanner is feature packed with the following -- and more!

- Frequency coverage: 25-54, 108-174, 225-380, and 400-512 MHz.
- Close Call: RF capture and frequency readout of nearby signals
- Service banks: Factory-preloaded with 10 separate police, fire/emergency, hanmd, marine, railroad, civilian air, military air, CB, RFS/GMRS/MURS, and racing frequency for quick search.

Order SCN58 Only \$129.95



### **PSR-100 SCANNER!**

Available as a hand-held (PSR-100) for the large with traditional communications require the first part of the large with traditional communications require the first part of the large section of the large with traditional communications require the first part of the large section of the large with traditional communications require the large section of the large

200 mory characters in the channels per second; 10 digit characters requency of the function icons; priority; SAME weather aler in Sam function, up/down search; 2 second delay; manual frequency, key-press tone; back-lit LCD; PC programmable and cloning.

ਤਨ-100 also includes belt clip, 2 battery holders; 4 AA cells required.

PSR-100 Order SCN16 Only \$79.95

## *PSR-310/410 SCANNER!*

Available in a hand-held (PSR-310) or desktop/mobile (PSR-410) configuration, these mid-range scanners provide top performance with a wide frequency range at a low price. Frequency coverage: 25.00000-54.00000 MHz, 108.00000-136.99166 MHz, 137.00000-174



MHz, 216.00250-299.93750 MHz, 300 00.512.0000 MHz (less cellular).
512.00000 MHz, 764.00000 00000 MHz (less cellular).
1500 memory chartels, Novo 12 covere page 1500 memory chartels, Novo 152 covere page 1500 memory chartels, Novo 152 covere page 1500 memory chartels in the large of the page 1500 memory chartels and LTR. PSR-37 critical lude page 1500 memory chartels and LTR.



PSR-310 Order SCN22 Only \$169.95 PSR-410 Order SCN23 Only \$169.95

7540 Highway 64 West Brasstown, NC 28902 [800] 438-8155 [828] 837-9200 fax: [828] 837-2216 email: order@grove-ent.com web: www.grove-ent.com Technical Questions? (828) 837-9200 or tech@grove-ent.com



#### GRE PSR-120

The backlit LCD display provides a giant frequency display, signal strength bargraph, memory channel number, active memory banks, and much more.

Looking for those unknown frequencies while on the road? Spectrum Sweeper automatically registers the activity and the frequency while you listen. Service search and limit spall and is a did equick access to those unknowns.

Concerned about the Th. R- has AA SAME/FIPS warning. Need CTCSS or E sque 2 7 er will decode or encode it for your

Me ze p 300 on vorite channels in 10 separate banks. oose a proposition of the current function of your scanner.

de earphone jack is provided for listening privacy. All you need a three AA cells, alkaline or rechargeable. Rubber duckie antenna and belt clip are included.

The PSR-120 weighs 9 ounces with batteries and antenna and measures 2-1/2"W x 5"H x 1-1/2"D.

Order SCN25 Only \$89.95

## **GRE PSR-500 SCANNER!**

Available as a hand-held (PSR-500) configuration, this top-of-the-line scanner sets new standards in the industry! With 25-54, 108-174, 216-512, 764-960 (less cellular) and 1240-1300 MHz frequency coverage, this is the pick for new narrow-band, spectrum-refarmed scanning!

Customize your scan list's 37,800 memory channels for up to 1800 conventional or trunking entries without object limits; on-screen programming assistance; upgradable free software as available free to the trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks and amount of the trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks and the trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks and the trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks and the trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks and the trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks and the trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks and the trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks and the trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks and the trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks and the trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks are trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks are trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks are trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks are trunking from Motorola, LTR, P25 9600 baud, and EDACS wide/SCAT/narrow networks are trunking from Motorola, and trunking from Motorola, and

third-party-software remote controllability i-c LED m/alert custom-programmable.

Adaptive digital tracks of the control of the contr

This triple-conversion scanner has selectable 20 dB attenuation for overload situations; multiple priority channels; scan at 55 channels per second; service and frequency search at 90 channels per second; backlit LCD and keypad. Includes whip antenna, AC

adaptor and manual. PSR-500 also includes belt clip, 2 battery

r frequencies.

cases; 4 AA cells required.

PSR-500 Order SCN18 Only \$379.95

PSR-500





Grove's website is the ultimate source for all your radio needs! It's filled with the latest and greatest technology and contains far more products than we can show here in this catalog.

www.grove-ent.com

#### AOR AR8200 Mk III B

The AR8200 Mark III leaves others behind, with a Temperature Compensated Crystal Oscillator that maintains frequency stability without regard to changing ambient temperatures. A new keyboard layout, improved illumination allow easy operation in a variety of conditions and new telescopic antenna included for better reception.

#### FEATURES:

- Frequency coverage 500kHz-3GHz (Cellular Blocked)
- All mode reception with Super narrow FM plus Wide and Narrow AM in addition to the standard modes
- True carrier re-insertion in SSB modes
- · Detachable MW bar aerial with negative feedback

Cummostad Association

- Tuning steps programmable in multiples of 50Hz in all modes, 8.33kHz Airband step correctly supported
- Versatile band scope with save trace facility & Twin frequency readout with bar signal meter
- Arrow 4-way side rocker with separate main tuning dial
- Configurable keypad beep / illumination & LCD contrast
- Programmable scan & search including LINK, FREE, DELAY, AUDIO, LEVEL, MODE
- Computer socket fitted for control, clone & record, Flash-ROM memory (no battery required)

Supplied Accessories: Telescoping Antenna, Belt clip, Battery spacer, Hand strap, Battery pack (BP-206), AC adaptor(BC-149A/D)



	Suggestea Accessories:	
	ACC24 - CT8200 CTCSS decoder	\$119.95
	ACC25 - AOR TE8200 Tone Eliminator	\$74.95
	ACC27 - AOR EM8200 Extended Memory	\$99.95
	ANT12 - AOR MA500 Wideband Whip	\$119.95
	ANT39 - AOR SA7000 Base/Portable Ant	\$269.95
	CAS21 - Hard leather case LC8200	\$21.95
h	CAS25 - Soft leather case SC8200P	\$16.95
ı	CBL07 - AOR CR8200 Tape Recording Cable.	\$69.95
ı	CBL08 - Computer control lead CC8200	\$104.95
	CBL13 - AOR IF-8200 Data Cable	\$29.95
	PWR24 - AOR AA8000 AC Adaptor	\$25.00

**Order SCN51 Only \$729.95** 

Government agencies order SCN51-G

#### ICOM R20 Sport

#### **FEATURES:**

Frequency coverage 150KHz - 3.3 GHz (less cellular) Modes of SSB/CW/AM/FM/WFM

Dual watch capability in specific bands

IC audio recorder built-in with selectable recording times of 1, 2 or 4 hours.

CTCSS/DTCS/DTMF decode

1250 memory channels: 1000 memory, 25 scan edge, 200 auto-write scan

Pre-programmed TV Audio channels

Voice Scan Control Auto squelch function

AND MORE.....



5

**Order SCN20 Only \$519.95** 

Government agencies order SCN20-G Only \$559.95

#### **Suggested Accessories:**

BAT04 - BP-206 Li-Ion Battery Cell Assembly	\$51.95	5
DCC18 - CP-18A DC cord/Cigarette Lighter Cable	\$29.95	5
CASO7 - LC-158 carrying case	\$34.95	5
SFT13 - CS-R20 cloning sw + OPC-1382 cable (USB)	\$49.95	5

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#### **More Scanners:**

SCN45	UNIDEN BC346XT	\$199.95
SCN25	GRE PSR-120 HANDHELD	\$99.95
SCN56	GRE PSR-700 EZ SCAN-SD HANDHELD SCANNER	\$179.95
SCN24	ALINCO DJ-X11T	319.95
SCN03	ALINCO DJ-X7T	179.95
SCN54	ICOM IC-R6 16 (BLOCKED)	189.95
SCN54-G	ICOM IC-R6 20 (UNBLOCKED)	189.95
SCN05	RAMSEY ABM1 AIR BAND MONITOR	149.95

#### WR-G31DDC 'EXCALIBUR'

This sturdy, compact, software defined receiver (SDR) is the size of a paper-back novel, accessorized with a USB computer interface (cable provided) , an SMA antenna connector (an SMA/BNC adapter is included); and a 12VDC jack (an AC adapter is also included).

Covering a continuous 9 kHz (and lower) to 50 MHz spectrum, detection modes include AM, synchronous AM, USB, LSB, CW, FM, FSK, UDM (user defined mode), and even DRM (optional).

The screen is a powerful signal processing and analysis tool. Three spectrum displays reveal the presence, frequencies, and relative amplitudes of signals. Simply press and step the zoom icon for larger magnification.

11620.000 kHz

This is radio signal acquisition like you've never experienced before!

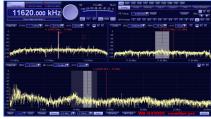
RCV66 WR-G31DDC ......\$899.95

#### **WR-G33DDC EXCALIBUR PRO**

The WiNRADiO WR-G33DDC 'EXCALIBUR Pro' is a high-performance, low-cost, direct-sampling, software-defined, shortwave receiver with a frequency range from 9 kHz to 49.995 MHz. It includes a real-time 50 MHz-wide spectrum analyzer and 4 MHz-wide instantaneous bandwidth available for recording, demodulation and further digital processing.

This product is an advanced version of the awardwinning WR-G31DDC receiver offering the following additional features and improvements:

- 4 MHz instantaneous processing bandwidth
- Low-noise preamplifier
- Configurable preselection filters
- Filter bandwidth adjustable down to 1 Hz
- 0.5 ppm frequency stability
- Test and measurement functions



RCV62 WR-G33DDC.....

\$CALL

#### WR-G39DDCi (internal) and e (external) Excelsior

The WiNRADiO WR-G39DDCi 'EXCELSIOR' is a highperformance HF/VHF/UHF/SHF software-defined receiver with a frequency range from 9 kHz to 3500 MHz, with two independent channels of 4 MHz wide instantaneous bandwidth available for recording and further digital processing, plus a 16 MHz wide real-time spectrum analyzer.

The receiver offers an unparalleled flexibility given its SDR architecture, respectable dynamic range, high sensitivity, scanning speed and accuracy of performance, making it capable of filling not only the role of a monitoring receiver but also that of a fast search receiver and measuring receiver, with many operational and instrumentation features not usually found on receivers of any price category. EIBI, HFCC and user frequency databases support

- Frequency range 9 kHz to 3500 MHz
- (except cellular bands where required by law)
- Ultra-fast search speed 1 GHz/s
- Two independent receiver channels
- · Real-time spectrum analyzer up to 16 MHz wide
- Unlimited width swept spectrum analyzer
- Audio spectrum analyzer
- Audio and DDC recorder



This is the first time a receiver of such advanced specification and unique combination of features is being offered to the general marketplace. The receiver is intended for government, military, security, surveillance, broadcast monitoring, industrial and demanding consumer applications. Easily installed to any modern computer with the PCI-e bus interface, this receiver represents an excellent general-purpose mobile and stationary solution for HF/VHF/UHF/SHF monitoring and surveillance.

RCV69	Winradio G39DDCi excelsior (Cell Blocked)	CALL
RCV69-G	Winradio G39DDCi excelsior (unblocked)	CALL
RCV69E	WINRADIO G39DDCe EXCELSIOR (CELL BLOCKED)	CALL
RCV69E-G	WINRADIO G39DDCe EXCELSIOR (UNBLOCKED)	ALL

#### **WiNRADiO PC-based Receivers, G315 Series**

This receiver is intended for government, military, security, surveillance, broadcast monitoring, industrial and demanding consumer applications.



The receiver connects to an IBM-compatible PC via the USB port. Several receivers can be controlled by a single PC to form a multi-channel HF receiver system.

The receiver has its own on-board DSP, and does not rely on the PC sound card for the signal input; the digitization is done in the receiver itself, using a high-performance analog-to-digital converter. As the DSP performs the final stage IF filtering and all demodulation, this receiver is entirely software-defined, which means that additional demodulation or decoding modes can be easily added by a mere software change. [For example, an

modes can be easily added by a mere software change. (For example, an optional DRM decoder/demodulator is also available.)

Easily installed to any modern computer with the USB interface, this receiver

represents an excellent mobile solution for VHF/UHF listening and monitoring	
RCV64 WR G315e\$	CALL
RCV64-G WR G315e (government/professional version)\$	CALL



### **WiNRADiO PC-based Receivers, G313 Series**

The G313 Series receivers are professional, software-defined short-wave receivers, for demanding monitoring and surveillance applications.



The WiNRADiO WR-G313e is a software-defined high-performance HF receiver (9 kHz to 30 MHz, optionally extendable to 180 MHz) with a USB interface, an external version of the acclaimed WR-G313i receiver.

The receiver connects to an IBM-compatible PC via the USB port. Several receivers can be controlled by a single PC to form a multi-channel HF receiver system.

The receiver has its own on-board DSP, and does not rely on the PC sound card for its performance. As the DSP performs the final stage IF filtering and all demodulation, this receiver is entirely

software-defined, which means that additional demodulation or decoding modes can be easily added by a mere software change.

RCV31E WRG313e ...... \$1149.95

#### More WiNRADiO products:

RCV31	WINRADIO G313i PROFESSIONAL HF RECEIVER	\$1149.95
RCV31/MOD04	WiNRADIO WR-G313i/180	\$1399.90
RCV31E	WINRADIO WR-G313e	\$1149.95
RCV31E/MOD04	WiNRADiO WR-G313e/180	\$1399.90
RCV54	WiNRADiO WR-G315i	\$CALL
RCV54-G	WINRADIO WR-G315i (UNBLOCKED)	\$CALL
RCV64-G/MOD09	WINRADIO WR-G315e/WFM (UNBLOCKED)	\$CALL



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#### WiNRADiO G305 Series

Convert your desktop PC into a most sophisticated radio monitoring station! The WiNRADiO WR-G305i is a software-defined PC-based wideband scanning receiver covering a frequency range from 9 kHz to 1800 MHz (optional down-converter to 3.5 GHz available).

The "G3" stands for "the third generation": As the original, award-winning, first-generation WiNRADiO WR-1000i receiver was the world's first commercially available wide-band receiver on a PC card when launched over a decade ago, the newly introduced WR-G305i is the world's first commercially available software-defined VHF/ UHF receiver on a PCI bus card.

This Software Defined Radio (SDR) offers demodulation and last IF (intermediate frequency) processing entirely in software. Usually this means using a DSP, but in the case of the G305i, this processing is done on a personal computer using a sound card (most modern PCs are now faster and more powerful than many DSPs were only a few years ago). So, if you own a PC, the chances are that you already own an important part of a software defined radio receiver!

The G305e represents an external version of the WR-G305i receiver, with equivalent performance. The PC-based receiver is USB-controlled and

compatible with modern desktop and laptop computers with USB interface.

RCV63 ......\$699.95 Government Agencies Order RCV63G



*G305e/PD* 

The amazing G305e with the Professional Demodulator. The many additional features include: Continuously variable IF bandwidth 100 Hz - 15 kHz, user adjustable filter selectivity, WiNRADiO Digital Bridge™ compatibility, built-in test and measurement instrumentation, interactive block diagrams with two additional audio spectrum scopes, and RCV63P.....\$799.95 THD and SINAD measurement capability. Government Agencies Order RCV63P-G

#### More WiNRADiO products:

RCV53	G305i internal	\$699.95
RCV53-G	G305i internal (unblocked for government only)	\$699.95
RCV53P-G	G305i/PD internal (unblocked for government only)	\$799.95
RCV53P	WR-G305i/PD	\$799.95

Add-on software such as demodulators and decoders, trunking applications, digital signal processing software, frequency databases and other software accessories are available by direct download from the Winradio web site.

ACC09 ACC13 ACC14F ACC15 ACC20 ACC21 ACC29 ACC34 ACC39 ACC71 ADP35 BRK02 CBL16 CVR02	WINRADIO WR-AC-RMB-114	\$1195.00 \$CALL \$99.95 \$49.95 \$39.95 \$99.95 \$CALL \$189.95 \$39.95 \$18.95 \$17.95 \$49.95
BRK02 CBL16	WINRADIO WR-G3E-WMB WALL-MOUNT BRACKET WINRADIO WR-G303E-SIO SERIAL INTERFACE OPTION	\$17.95 \$49.95
PRE03 PWR09 SFT38	WINRADIO WR-DNC-3500 FREQUENCY DOWNCONVERTER WINRADIO WR-LNA-3500 LOW NOISE AMPLIFIER WINRADIO WR-PPS-G3 WINRADIO WR-EM-GPS G33EM GPS OPTION	\$189.95 \$189.95

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ww.grove-ent.com

## VHF/UHF BASE ANTENNAS

#### Scantenna

#### Includes 50' of coax cable plus BNC connectors!

This omnidirectional scanner antenna will equal or outperform any competitor on the market. Its dipole-cluster design utilizes broadband techniques to provide continuous frequency coverage from 25-1300 MHz, offering superb reception of public safety, civilian and military aircraft, hams, personal communication devices, maritime, CB— anything in its frequency range! Size 7-1/2'H

If more than 50' of cable is needed, order the ADP26 (F/F barrel connector) along with CBL50 or CBL100.



#### Order ANTO7 - Our Price: \$49%

No standard 2nd day shipping due to weight. Call for rates.

Shipped only in U.S. & Canada

#### **Grove Scanner Beam III!**

The highly-regarded Scanner Beam now has higher gain. Mount it high and in the clear for fullspectrum VHF/UHF frequency coverage from 30-1000 MHz! Hear law enforcement agencies, firefighters, emergency medical teams, aircraft, marine radio, trains, FM and TV broadcasting, business band, federal agencies and more—up to 100 miles away!

Lightweight and compact, all parts are included—balun transformer with F connector, offset boom, U-clamp. No assembly required—just rotate and latch the elements into place. Point it in any direction for maximum reception, or aim it with an inexpensive TV rotator.

#### **Specifications:**

**DIMENSIONS**: Main boom 5' 10" Longest element 8' 4" Number of elements: 14 GAIN: 30-50 MHz, 0 dBd (unity); 100-200 MHz, 4-6 dBd; 400-500 MHz, 6-8 dBd; 800-1100 MHz+, 10-12 dBd.

#### **Suggested Accessories:**

CBL25 - 25' F to F RG6U cable	\$14.95
CBL50 - 50' F to F RG6U cable	\$19.95
CBL100 - 100' F to F RG6U cable	\$24.95
SWC01 - Antenna Switch	\$19.95
ADPKIT - 10 PIECE ADAPTER KIT	\$29.95

No standard 2nd day shipping due to weight. Call for rates.

#### Order ANTO3

Our Price: \$6995

Shipped only in U.S. & Canada

#### **Grove OMNI II**

Designed by Bob Grove, this exclusive Grove product offers 25-1300 MHz coverage for modern scanners; lightweight, compact design, high performance, and low cost! Designed especially for wide-area metropolitan listeners, the 68" Omni can be mounted on a mast, in an attic crawl space, against a wall—just about anywhere convenient.

BONUS FEATURE! Although the Omni is essentially non-directional, a metal mast gives it useful directional properties. Overload interference from paging transmitters, weather stations, FM or TV broadcasters, or other sources may be reduced or eliminated when positioning the antenna on the mast at the time of installation! Similarly, a distant, weak signal may be peaked by the same technique!

Balun transformer with F connector, offset pipe, mounting hardware and full instructions included.

Suggested Accessories:

CBL25 - 25' F to F RG6U cable	\$14.95
CBL50 - 50' F to F RG6U cable	\$19.95
CBL100 - 100' F to F RG6U cable	\$24.95
SWC01 - Antenna Switch	\$19.95
ADPKIT - 10 PIECE ADAPTER KIT	\$29.95

No standard 2nd day shipping due to weight. Call for rates.

Order ANT05

Our Price: \$2995

Shipped only in U.S. & Canada

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#### **More VHF/UHF Base Antennas:**

ANT01	WINRADIO AX-71C DISCONE ANTENNA	89.95
ANT10MBS	SUPER-M CLASSIC BASE STATION	99.95
ANT46	GROVE FLEX-TENNA MODEL VU	9.95
ANT51	WINRADIO AX-81S ACTIVE HF ANTENNA	189.95
ANT58	WINRADIO WR-AX-31C	189.95
ANT61MBS	SUPER-M ULTRA BASE STATION	189.95
ANT66	WINRADIO WR-AX-31CX	189.95
ANT68	WINRADIO AX-06B TELESCOPIC VHF/UHF ANTENNA	29.95
ANT69	WINRADIO WR-AX-31CMX	289.95
ANT14B	AUSTIN CONDOR 12" FLEX ANTENNA W/RIGHT-ANGLE BNC	39.95

# **VHF/UHF WIDEBAND ANTENNAS**

#### Icom AH-8000 Antenna

Continuous frequency coverage from 100MHz-3300MHz (3.3 GHz) is ideal for the new wide-frequency coverage receivers from ICOM, AOR, WiNRADiO, ALINCO and scanners, too! Use it for transmitting up to 200 watts on ham\*, government, military, aircraft and commercial bands as well!

Compact (36") and lightweight (2.1 lbs.); 1''-2'' mast mount hardware included. Rapid deployment with factory-cut elements--no adjustments required! Comes with 49' of coax with type N connectors.

\* Best impedance match for amateurs on 144, 430, 1200 and 2400 MHz bands Recommended accessory: N/BNC adaptor

Order ANT54 - Our Price - \$26995

#### **AOR DA3200 Extended-Range Discone**

For continuous-coverage 25-3000 MHz VHF/UHF receivers and scanners, and even 100 watt transmitters on most VHF-HI and UHF frequencies, you can't beat this rugged discone! Stainless steel tubing combines light weight with rough-weather durability. Includes 50 feet of low-loss coax with N connectors, two U clamps, and tough 2-1/2" mast mount.

Technical Specifications

Frequency Range 25-3000MHz Impedance 50 ohm

Gain/db Max. 3dBi (100-3000MHz)
Connector N Female
Weight 1kg (cable excluded)

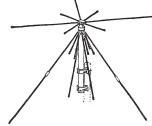
Rated Wind Velocity 50m/sec

Dimensions Height: 1.12m, Diameter 0.84m

Mast Diameter Accepted 25-50 mm

Supplied Accessory: Coaxial Cable (5D-2V)

15m with Male N connector, both ends



Order ANT62 - Our Price: \$20995

"I receive many publications, QST, CQ, VHF, Ten-Ten, World Radioon-line. I enjoy the broad coverage of MT and apart from the technical articles of ARRL's QST I consider MT the best of the bunch."

- Gary

## Icom has the receivers for those on the go...



#### IC-R2500

#### 2 Wide Band RX in 1 Black Box

- RX: 0.01-3299.99MHz\*
- AM, FM, WFM, SSB, CW (Main)
- AM, FM, and WFM (Sub)
- 1000 Memory Channels
- Optional D-STAR (UT-118)
- Optional P25 (UT-122)
- Optional DSP (UT-106
- PC Controllable



Limited Time Only!
Contact Grove for details.

#### IC-PCR1500

#### PC Control Wide Band RX

- RX: 0.01-3299.99MHz\*
- AM, FM, WFM, SSB, CW
- Record and Save Audio as .WAV File
- USB Cable Connection
- Optional DSP



#### IC-R20 Advanced Ops

- RX: 0.150–3304.999MHz\*
- AM, FM, WFM, SSB, CW
- 1250 Alphanumeric Memory Channels
- Dualwatch Receive
- 4-hour Digital Recorder

#### IC-RX7 Track Ready

- RX: 0.150-1300.0MHz\*
- AM, FM, WFM
- 1825 Alphanumeric Memory Channels
- 100 Ch/Second High Speed Scan
- Computer Programmable<sup>2</sup>
- IPX4 Water Resistance Rating



#### IC-R6 Pocket Compact

- RX: .100-3309.995MHz\*
- AM, FM, WFM
- 1300 Alphanumeric Memory Channels
- 100 Ch/Second High Speed Scan
- Computer Controllable<sup>1</sup>



## those just getting started...



#### IC-R75 Wide Band Receiver

- 0.03-60.0 MHz\*
- Triple Conversion
- Twin Passband Tuning
- Digital Signal Processing (DSP)



## and the experts!

#### IC-R9500 The Ultimate Wide Band Receiver

- 0.005–3335.000MHz\*
- · USB, LSB, CW, FSK, FM, WFM, AM
- 1020 Alphanumeric Memory Channels
- P25 (Option UT-122)
- Five Roofing Filters and so much more!



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#### Diamond D3000N

The Diamond D3000N boasts 25-3000 MHz reception capability, with transmit capability from 50-1200 MHz. Transmit power is 200 watts from 144 - 1200 MHz, and 20 watts FM, 50 watts SSB on 50-54 MHz. Built like the rugged, well-respected D130J, the D3000N extends its upper frequency ranges into the Wi-Fi band. Overall height is  $67^{\prime\prime}$ . An N connector provides lowest loss at the UHF frequencies.

#### Order ANT70 - Our Price: \$11995



#### Diamond Wideband Discone Antenna

The discone antenna is used by government and military agencies worldwide because of its wide bandwidth characteristics and non- directional coverage. Now Diamond offers a professional grade discone at a popular price.

Designed for use with wide-frequency coverage VHF/UHF scanners and receivers, the Diamond D130J discone consists of 16 rugged, stainless steel elements and is capable of transmitting up to 200 watts in the amateur 50, 144, 220, 432, 900, and 1200 MHz bands.

As a receiving antenna, the D130J is omni-directional for continuous 25-1000 MHz (and above) coverage. A base-loaded, vertical top element is used as a low band (30-50 MHz) frequency extender.

The elements are arranged on a 24-inch support pipe equipped with two strong mounting brackets to accommodate any standard mast-pipe (1"to 2-1/8" diameter).

#### Order ANTO9 - Our Price: \$9995

## **More VHF/UHF Wideband Antennas:**

ANT16	CREATE CLP-5130-1N	\$469.95
ANT17	CREATE CLP-5130-2N	\$339.95
ANT28	WINRADIO AX-37A	\$389.95
ANT29	WINRADIO AX-37AM	\$499.95
ANT39	AOR SA7000 SUPER WIDE BAND	\$269.95
ANT63	WINRADIO AX-24B DISCONE ANTENNA	\$319.95
ANT65	WINRADIO WR-AX-37AH	\$499.95
ANT72	AOR DA5000 UHF DISCONE ANTENNA	



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#### **Procomm CD144MBN**

HIGH PERFORMANCE, LOW PROFILE, MOBILE SCANNER ANTENNA

This mechanically improved model features a tight hold, wind resistant, chrome finish, 3.25″ magnetic base built to withstand high road speeds. The 20″ stainless steel whip can receive 25-1000 MHz (best above 100 MHz) and makes a great 2 and 3/4 meter transmit/receive antenna, or you can shorten it to resonance on any VHF-HI or UHF band of your choice (Allen wrench included). 12 feet of RG58/U coax cable (not the usual, lossy RG-174/U) is terminated with a BNC connector for your scanner or transceiver.



Order ANT50 - Our Price: \$1995



## Range-Extending Mobile Mag Mount!

Extend the range of your hand-held radio--simply attach your BNC whip and snap this rugged magnetic mount to the top of your vehicle or even an indoor metal surface (file cabinet, etc.)! Great for scanners, handy-talkies, law enforcement and commercial hand-held transceivers, government/military portables.

The heavy-duty, low-profile, magnetic mount is made of high-grade steel with rubber weatherproofing. It won't come loose at highway speed, yet it's

instantly removable for security or storage. Includes 12 feet of RG-58/U coax with BNC connector.

Order ANT48 - Our Price - \$2795

#### More VHF/UHF Mobile Antennas:

ANT10	SUPER-M CLASSIC MOBILE MAG MOUNT	\$94.95
ANT10NMO	SUPER-M CLASSIC MOBILE W/NMO	\$79.95
ANT12	AOR MA500 WIDEBAND MOBILE WHIP	\$119.95
ANT61	SUPER-M ULTRA MOBILE MAG MOUNT	\$124.95
ANT61NMO	SUPER-M ULTRA MOBILE W/NMO	\$109.95

## HANDHELD SCANNER ANTENNAS

### Diamond RH77CA HT/Receiving & Scanner Antenna

WIDEBAND FLEX ANTENNA FOR HT'S AND SCANNERS! Designed for multiple-frequency transmitting as well as wideband receiving, this 16'' flexible whip is equipped with a standard BNC connector to fit most portable VHF/UHF radios. Transmit frequencies in the 144-160 and 430-470 MHz ranges, as well as excellent general-purpose reception in the 90-900 MHz range (usable down to 30 MHz with reduced performance), make this a very popular antenna for hams, scanner listeners, and commercial two-way users.

Order ANT64 - Our Price: \$2195

## The Mighty Condor!

Looking for a suitable rubber duckie scanner antenna to replace the factory issue? Try this one which has become the standard of the industry. Made for the two-way communications community, the 12" Austin Condor is guaranteed to improve weak signal scanner reception throughout the 100-1300 MHz frequency ranges compared to your original scanner antenna. Great for transmitting in the 144-160 and 430-470 MHz bands as well.

Order ANT14 - Our Price - \$3495

#### More Handheld Scanner Antennas:

ANT06	UNIVERSAL TELESCOPING WHIP\$14	1.95
ANT47	WINRADIO AX-07B FLEXIBLE VHF/UHF ANTENNA\$27	7.95
ANT67	DIAMOND SRH77CA HT/RECEIVING & SCANNER ANTENNA\$21	.95

## **HF OUTDOOR ANTENNAS**

#### PAR HIGH-PERFORMANCE "END FEDZ" SHORTWAVE ANTENNA!

The PAR End Fedz 45-foot, commercial-quality, end-fed receiving antenna is made of virtually-indestructible Flex Weave, covered by a protective black polyethylene jacket. Impedance-matched by a 9:1, binocular-core transformer in a weather- and UV-resistant ABS housing, the wire element is firmly attached by stainless steel hardware. You may custom-configure the shorting bar for grounding the antenna. A silver/Teflon SO-239 coax connector is ready to receive the PL-259 on your coax cable.



CBL25 - 25' F to F RG6U cable .... \$14.95 CBL50 50' - F to F RG6U cable ... \$19.95 CBL100 100' - F to F RG6U cable \$24.95 ADP02 - F to PL259 adaptor ...... \$3.99

Mount this beauty outdoors, in the attic, or any other preferred spot for unsurpassed, 1-55 MHz reception! Instructions include patterns for horizontal or slope mounting.

Order ANT08 - Our Price: \$7495

#### Grove Flex-Tenna™ HVU

The 24-foot Model HVU Flex-Tenna™ is a thin and inconspicuous, flexible-wire antenna designed to provide continuous 10 kHz-2500 MHz reception on shortwave receivers, wide-frequency-coverage receivers and scanners with only one antenna connector. Since it's a narrow length of clear-insulated cable, it is an excellent choice for low-

visibility installations. F male connector. Choose correct

adaptor for your receiver and scanner needs.



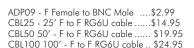
CBL25 - 25' F to F RG6U cable	\$14.95
CBL50 - 50' F to F RG6U cable	\$19.95
CBL100 - 100' F to F RG6U cable	\$24.95
CBL09 - F Male ~ F Male Coax (3')	\$1.25

#### Order ANT45 - Our Price:

#### WiNRADiO WR-LWA-0130 Long Wire Antenna Adapter

Often referred to as long wire balun, this device is used to match the impedance of a long wire HF antenna to a 50 ohm input impedance of a receiver. Such impedance matching usually results in a significant signal strength increase (up to 17dB in some cases, and approximately 5dB on average), compared

to the long wire antenna connected directly to the antenna input of the receiver. The WiNRADiO WR-LWA-0130 long wire antenna adapter is designed to work



on medium and short wave bands, covering a frequency range from 0.1 to 30 MHz. It is especially suitable for use with WiNRADiO shortwave receivers, such as the WR-G303i receiver.



Order ADP35 - Our Price: \$3995

#### MFJ 1020C ACTIVE SHORTWAVE ANTENNA

If you can't use an outdoor shortwave antenna, the popular MFJ 1020C is the way to go. Featuring 300 kHz-40 MHz frequency-selectable coverage, and including its own 20-inch telescopic whip, the 1020C may be used as a preselector for outdoor antennas as well. Controls include gain, band, tuning, and bypass. Rear-panel SO-239 connectors are provided.



#### Suggested Accessories:

PWR04 - AC Adaptor......\$14.95 CBL11 - 3' PL-259/PL-259 Interconnect Cable . \$4.99

**Order ANT19** Our Price: \$8995

#### More HF Indoor Antennas:

ANT15	H-800 Skymatch Active Antenna	\$159.00
ANT49	GROVE HIDDEN FLEX-TENNA	\$19.95
ANT25	GROVE SHORTWAVE POCKET-TENNA	\$19.95
ANT27	H-900 GAIN PROBE ANTENNA	\$189
ANT55	AOR LA390 INDOOR RECEIVER LOOP ANTENNA	\$399.95
ANT59	GRUNDIG AN200 LOOP ANTENNA	\$29.95
ANT60	WINRADIO AX-17C INDOOR ACTIVE HF ANTENNA	\$189.95
ANT71	WINRADIO AX-05E LONG WIRE HF ANTENNA	\$39.95

# **ANTENNA ACCESSORIES**

#### **Premium Low-Loss RG6-U Cable**

Grove RG-6/U coaxial cable is 100% shielded for lowest loss\* and best electrical noise rejection. It comes with easy-to-adapt F connectors on both ends, fitting our wide range of adaptors.

Have you had trouble finding the right coaxial <u>adaptors</u> for linking your antenna and receiver? We can help! Simply tell us what adaptors you need, or what antenna and radio you will be using. We will provide you with a cable which is ready to attach between your antenna and receiver! 25, 50 & 100 ft. length, comes with 2 adaptors at no extra charge (specify from list above when placing order)

\*Cable Loss Per 100 ft.: 1.6 dB @ 50 MHZ; 2.6 dB @ 170 MHz; 4.6 dB @ 450 MHz.

#### CBL25 25' F to F RG6U cable .......\$14.95 FREE SHIPPING in the US if ordered with antenna! CBL50 50' of low-loss RG6-U cable.....\$19.95 CBL100 100' of low-loss RG6-U Cable ......\$24.95 ADP01 COAX-SEAL 1/2" wide 60" roll ......\$2.95 ACC41 F Female to PL259 "UHF" Male adapter.....\$3.99 ADP02 ACC42 ADP03 F Female to N Male adapter.....\$3.99 ADP25 RCA Female to 3.5mm Male adapter ......\$2.99 ADP04 BNC Female to N Male adapter.....\$3.99 ADP26 F Female to F Female Barrel adapter (anty 2) ......\$1.99 ADP05 ADP32 RCA Female to PL259 "UHF" Male adapter .............\$2.99 ADP07 UHF Female to F male adaptor.....\$2.99 ADP33 BNC Female to SMA Male adapter .......\$3.99 ADP09 F Female to BNC Male adapter ......\$2.99 CBL04 ADP13 BNC Right Angle adapter ......\$2.99 CBL09 3' cable, F Male to F Male .....\$1.25 ADP17 BNC Female to F Male adapter ......\$2.99 CBL11 3' cable. PL259 to PL259..... Orders for adaptors only will be shipped first class mail in US. CBL15

#### 10 PIECE UNIVERSAL ADAPTER KIT

Order ADPKIT

Every common type for scanners, shortwave portables, communications receivers, transceivers, and handy-talkies -- F, BNC, N, UHF(PL-259), and SMA! Interconnect for unusual combinations!

**Our Price: \$29**95

#### Variable Attenuator

Order ATT01 - *Our Price: \$19*%

Adjust this attenuator in your antenna line to reduce nearby strong-signal interference on. Reduces all signals from DC-1000 MHz from 0 to 20 dB! Two F connectors provide convenient coax attachment.

#### **Lightning Arrestor/Surge Protector**

While nothing can withstand a direct lightning hit, the Grove LAR-1 connects between your antenna cable and radio to prevent induced voltages from nearby lightning strokes, high powered transmitters and other massive energy surges from burning out your equipment (will not prevent AC power line surges).



Not a flimsy spark gap or simple diode shunt, the Grove LAR-1 uses state-of-the-art gas discharge technology, proven in government tests to be the best deterrent against lightning and electromagnetic pulse (EMP) surges.

Select an adaptor from the list below **{no extra charge}**} to accommodate your receiver or scanner.

ADP02 - F Female to PL259 "UHF" Male adapter

ADP03 - F Female to BNC Male adapter

ADP17 - BNC Female to F Male adapter

ADP05 - F Female to Male 1/8" Mini adapter ADP07 - UHF Female to F male adaptor

Order LAR1F - Our Price: \$1995



#### Scanner Antenna Splitter

Now you can run two receivers or scanners from one antenna with full 1-1000 MHz frequency coverage! This antenna splitter comes with two three-foot cables for your side-by-side scanners and adaptors for F and BNC connectors.

Order SPL02 - Our Price: \$29<sup>95</sup>

#### DC-2 GHZ ANTENNA SWITCH

Select between two antennas for your receiver, scanner, or low-power transceiveror you may choose either of two radios to connect to your antenna!

Comes with two 3' cables, your choice of 3 connectors listed below (specify when placing order), 2 mounting screws and two-sided tape.

ADP02 - F Female to PL259 "UHF" Male adapter, ADP03 - F Female to N Male adapter, ADP05 - F Female to Male 1/8" Mini adapter, ADP07 - UHF Female to F male adaptor, ADP09 - F Female to BNC Male adapter ADP17 - BNC Female to F Male adapter



Order SWC01
Our Price: \$1995

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## TUNERS, PREAMPS & **MULTICOUPLERS**

#### AOR LN4000 Low-Noise VHF/UHF Preamplifier

For the discriminating scanner user who needs the best possible weak-signal amplification without amplify-

ing the noise as well, this tiny (1" square) preamp is the answer!



The LN4000 offers 20 dB (typical) signal amplification from 100-4000 MHz (-3 dB), at a low noise figure of only 4.5 dB. It is powered by any convenient 5 to 12 VDC, 30 mA (typical), center pin positive, power supply (available as an accessory).

Includes 10" coaxial receiver/scanner interconnect cable with SMA connectors and BNC adaptors. A 10' power supply cable with DC connector is also provided for remote

NOTE: Antenna preamplifiers increase the strength of strong signals as well as weak. If you experience strong-signal overload, a filter for the offending frequencies is recommended.

PWR24 AOR AA8000 120 VAC Adaptor \$25.00 Order PRE04 - Our Price: \$209%

#### AOR ABF128 INLINE AIRBAND PASS FILTER W/BNC

The ABF128 is a receive (only) bandpass filter especially designed to improve strong signal handling characteristics of receivers for VHF commercial Airband listening. The AFB128 is suitable not only for AOR receivers, but also for most airband and wideband receivers on the market. The addition of ABF128 will provide additional selectivity, and allow the receiver's circuitry to cope much more easily with strong interfering signals such as Band-2 Stereo or Shortwave broadcast transmissions.

Order FTR07 - Our Price: \$7495

## Stridsberg Multicouplers 2-8 ports, 100kHz-1GHz, active and passive.

Operate multiple receivers or scanners from one antenna; amplified (active) and passive models. Designed for rigid military, government, and commercial monitoring and surveillance applications requiring high intermod rejection, low noise. Die-cast aluminum cases (4-3/8"L x 2-3/8"W x 1-1/4"H) EMI/RFI shielded and fitted with BNC connectors. 120VAC / 12VDC power supplies included with active models. Five-year warranty; (DS=dropshipped directly to you from the manufacturer.)

CPL06 - 2 port passive, 100kHz-500MHz	\$69.95
CPL08 - 2 port passive, 10MHz-1GHz	
CPL07 - 4 port passive, 100kHz-500MHz	
CPL09 - 4 port passive, 10MHz-1GHz	

CPL03 - 4 port active, 25MHz-1GHz	\$184.95
CPL01 - 4 port active, 100kHz-50MHz	\$184.95
CPL02 - 8 port active, 100kHz-50MHz	\$334.95
CPL04 - 8 port active, 25MHz-1GHz	\$334.95

#### MFJ 1045C Preselector - 1.8-54 MHz

Boost weak signals and reject out-of-band interference and images from 1.8-54 MHz. Boost weak signals up to 20 dB with low-noise, dualgate MOSFET and bipolar transistors. Choose between two antennas and two receivers from the front panel. Powered by any 9-18 VDC supply.



#### Suggested Accessories:

PWR04 - MFJ 1312D AC Adaptor ......\$14.95 CBL11 - Cable with PL259 on both ends ....\$4.99

TUN01 - Our Price: \$8295

#### Par Intermod Filters

Now you can restore quiet monitoring on your scanner or VHF/UHF transceiver, drastically reducing that incessant "bleep bleep" interference from local paging transmitters! Simply specify whether the interference is from a 152, 158, or 462 MHz pager, and we'll send you a unit that knocks down that interference by 35 dB! Units may be cascaded for additional interference reduction. Equipped with BNC connectors. Filters are drop-shipped from manufacturer.



FTR152DS \$6995

FTR158DS

FTR462DS

FTR-FMDS

FTR-162DS

462MHz

88-108MHz

162MHz NOAA Weather

• DS suffix on product code means item is drop shipped from manufacturer. Please allow 10-14 days for delivery. 7540 Highway 64 West Brasstown, NC 28902 (800) 438-8155 (828) 837-9200

The BCST-HPF is a 7th order elliptic high pass filter designed to severely attenuate AM broadcast stations below 1700 KHz. The elliptic topology yields a very fast transition from band pass to band stop region.

The BCST-LPF is a 5th order elliptic filter designed to eliminate AM broadcast from interfering with LF and VLF listening. The elliptic topology yields a very fast transition from band pass to band stop region.

The BCST-HPF/LPF has a 50 Ohm design impedance, so if your antenna is a random wire, we suggest a 9:1 or 10:1 transformer be

inserted between the random wire and the filter. In addition, grounding at the filter end can be very important to filter efficacy.

The filter is housed in a heavy wall die cast aluminum enclosure. Connectors are silver/Teflon® SO239. A miniature togale switch allows the user to instantly switch the filter in and out of line.

**Order FTRLPFDS** 

**Our Price: \$6995** 

**Order FTRHPFDS** 

Our Price: \$6995

#### PAR BANDPASS FILTERS

Our bandpass series of filters are designed to shape the spectrum for specific band segments. These filters feature very fast roll off to significantly attenuate signals outside the desired passband.

Note that our insertion loss is typically 3dB less in the passband and that our stop band loss is much higher - particularly in the troublesome commercial FM broadcast band- the major offender to aero band monitoring. The UHFBP(225-400) utilizes an overlapping low pass and high pass filter topology to yield extremely low insertion loss in the milcom spectrum while providing significant attenuation to signals both above and below this band; including VHF and UHF digital television, pagers, cell phone, FM broadcast, 2 way users.

Dimensions (HxWxD): 2½ X 2½ X 1.4 Passband: 225 - 400MHz

Stop Band: DC-210MHz and 410MHz to

1 GHz

**SPECIFICATIONS:** 

Frequency Range: 1-1000 MHz

Standard Connector: Female gold/Teflon BNC
Connector Options: Female SMA Female type N for \$10

DC Passive: No

Housing: Die Cast Aluminum

THE RESIDENCE ACTOR

THE RESID

## Order FTRUHFBP (225-400) Order FTRVHFBP (116-137)

Our Price: \$7495

Our Price: \$74%

## Ramsey Wide-Band Preamplifier

If your scanner reception needs a little boost, this is the preamp to do it! Providing high gain at low noise, and operating continuously over 1 GHZ of spectrum, this signal booster can really make a difference in weak signal areas! Equipped with BNC connectors, no adjustment is necessary; just plug your antenna cable into the preamp, and run the 3' BNC/BNC cable (provided by Grove at no extra charge) to the antenna connector on your scanner—that's it! A 120 VAC/12 VDC wall adaptor is included!

**Order PRE02** 

Average Gain: 23 dB @ 1-450 MHz, 15 dB @ 450-1000 MHz
Power Required: 10-12 V AC or DC @ 50-75 mA; 120 VAC adaptor included

Our Price: \$59%

#### GRE Super Amplifier Boost the range of your hand-held scanner.

The GRE Super Amplifier has up to 20-dB adjustable gain from 100-1000 MHz. BNC connectors allow the unit to be mounted between the scanner and the antenna; a bypass switch permits the unit to be disabled without having to remove it. A 9-volt battery (not supplied) will provide up to 24 hours of continuous operation; a convenient external power jack permits the unit to be used continuously from a 9 V DC wall adaptor (not supplied).

Order PRE01 - Our Price: \$5395



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#### **SPEAKERS & RECORDERS**

#### GAP "HEAR IT" DSP SPEAKER

This compact speaker system utilizes powerful digital signal processing (DSP) to suppress annoying background hiss and static, revealing crisp, clean audio for shortwave reception, scanner monitoring, ham radio transceivers, CB installations, maritime mobile, noisy recordings, and other sources of crackly, hiss-ridden audio. Unlike competitive models which produce harsh, distorted audio with distracting DSP artifacts, the "Hear It" reveals up to 2-1/2 watts of clean, undistorted sound. Controls are provided for volume and DSP level.

Measuring 4-1/3"W x 2-1/2" H x 2-1/2"D and weighing only 7 ounces, The "Hear It" is designed to be used in compact mobile installations and includes a mounting bracket, 8' input cord with 1/8" (3.5 mm.) mini plug, a fused DC power cord, and an instruction booklet. The unit's standard



plug, a fused DC power cord, and an instruction booklet. The unit's standard 2.1 mm. power jack will accept 12-28 VDC at approximately 500 mA, making it universally applicable to fixed, mobile, and even aeronautical configurations. The small internal speaker is ideally suited to voice frequencies; for more demanding sound requirements, an external speaker or headphones may be plugged into the 1/8" jack provided.

**SPK05 - Our Price: \$16895** 

## **Noise Cancelling Mobile Speaker**

Whether your mobile listening needs are for scanner, shortwave, ham radio, CB, or professional two-way communications, this mobile accessory speaker will improve voice reception. A simple push of a button reduces pulse ignition noise and background hiss. Enjoy improved audio with the rugged, 4-inch, 10-watt-rated speaker. Mount the adjustable, steel bracket to your vehicle, plug the 10-foot cord into the 1/8" (3.5 mm) external speaker jack on your radio, and you're ready to go!



Power Rating: 10 watts Impedance: 8 ohms.

SPK07 - Our Price: \$895

#### Timewave ANC-4 RF Noise Canceller

The ANC-4 is an RF device that eliminates or reduces power line noise, computer noise, TV-generated interference, and other types of electrical noise. The ANC-4 unit connects right to the antenna



connector of the receiver or transceiver to cancel locally generated noise before it gets into the receiver and affects the receiver AGC circuits. Reception of signals well below the noise level of the local interference is possible.

To cancel locally generated interference, the ANC-4 detects the interfering signal and adjusts its phase and magnitude so that it matches the offending interference at the receiver input, but is 180 degrees out of phase, effectively canceling the interference. This scheme is particularly effective at reducing local power line noise or other locally generated noise types.

ACC40 - Our Price: \$19995

#### C Crane Long-Play Versacorder

Now you can listen to your favorite shortwave, talk radio, music broadcast, scanner activity, anytime you want by pre-recording the transmissions—at normal tape speeds or up to four hours on one side of a standard 120 minute cassette (a tape and tri-plug patch cord are provided)!



Excellent as well for preserving conferences with its built-in microphone, and for recording important telephone conversations with an optional patch cord (a beep tone can be activated to remind other telephone callers that a recording is being made).

A six-event timer allows you to automatically turn the recorder on at a pre-arranged time and day. You can use the voice activation to economize tape during periods of audio inactivity, or even remote- or manually activate the recorder. The large internal speaker provides quality sound at high playback levels.

Runs on (4) optional "C" batteries or the included AC adapter.

Weight: 2 lbs. 6 ozs. Size: 10" W x 2.625" H x 6.5" D.

Made by Sangean.

995



**REC01 - Our Price: \$99**%

## TEST EQUIPMENT & POWER SUPPLIES

#### **WiNRADiO EMR Detector**

This tiny, pocket accessory is ideal for detecting the presence of radio and electric fields in your proximity. With a continuous frequency response from 50 Hz to above 1 GHz, and an average sensitivity of 25 uV/cm, this new EMR Detector from WiNRADiO is a very handy gadget!

Order TST06 - Our Price: \$4995



#### MFJ 886 Frequency Counter

The shirt-pocket MFJ-886 offers 1 MHz-3 GHz frequency range, a 100 MHz sensitivity of 0.8 mV and readout to 0.1 Hz, all from a large (3/4"H), 10-digit LCD!

A sensitive bargraph signal strength meter, an accurate 1 ppm time base which can be calibrated externally, rechargeable batteries (included, up to six hours operation), are all part of this rugged, anodized-aluminum-encased pocket instrument which measures only 2-3/4"W x 3-1/4"H x 1-1/4"D, and comes with an AC adaptor/re-charger and telescoping BNC whip antenna at no extra cost!



Order TST07 - Our Price: \$11495

#### **AOR AR-STV**

The AR-STV is a wireless camera receiver designed to detect wireless video surveillance cameras. With its 2.5 inch color LCD display, still picture recorder and sensor that captures video signals in real-time, the AR-STV is a valuable addition to any security operation. Its built-in clock allows images to be time stamped and an optional 4 GB SD memory card can be used to store up to nearly 2000 images.

- Receives and displays analog video signals on L-band (1.2 GHz) or S-band (2.4 GHz)
- 2.5 inch color LCD display
- Still picture recorder
- Can be set for continuous search between 900  $\sim$  2800 MHz.
- Detects NTSC, PAL, CCIR, EIA or scrambled (reverse polarity) video signals
  - Captures video signals in real-time
  - Built-in clock
  - Captured images can be time-stamped
  - USB connector makes it easy to download stored images into a computer
  - Easy to operate
- Powered by four AA size batteries or external DC power
- NiMH batteries, belt clip and battery charger included

DS-JTPS28	Jetstream JTPS28
PWR30	Jetstream JTPS30M\$109.95
PWR31	Jetstream JTPS31MB\$89.95
PWR19	Take Charge Timed Charger Docking Bay Strip 4 Outlet (MODEL UTC 4S)\$19.95
PWR20	Take Charge Timed Charger Docking Bay Strip 4 Outlet (MODEL UTC 4W) . \$24.95
PWR21	Take Charge Surge Protection 8 Outlet (MODEL UTC 8MS)\$24.95

I continue to be very impressed with clarity of the electronic copy downloaded. The text size, the layout, colours etc are all outstanding - a first class job. To all those responsible, WELL DONE."

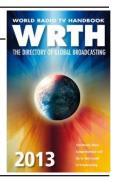
- Barry

## **BOOKS**

## World Radio TV Handbook, 2013 Edition

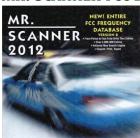
This information packed reference for professional monitoring stations and serious shortwave listeners bulges with station information, staff listings, contact information, worldwide mediumwave and shortwave frequencies, and schedules for programs in all languages.

Available December, 2012 **BOK03-13 - \$29**95



# **SOFTWARE**

#### MR. SCANNER FCC DATABASE - Latest Version!



This information-packed CD features official FCC records of licensees by state in the 25-1300 MHz range. Includes police, fire, ambulance, hospital, railroads, business, airports, AM/FM/TV broadcasting, armored express, paging, press, public transportation, common carrier, microwave relay, and public utilities. Trunk-Tracker IDs and ten codes are also listed. Data fields which may be searched independently include frequency, city, county, call sign, and service code; includes latitude and longitude as well. Export your records by ASCII or DBase. System requirements: Pentium 133 or faster, Works best with Windows 2000 or higher, 128 meg minimum memory, 4x or faster CD-Rom drive

Order SFT10 - Our Price: \$2395

#### Klingenfuss 2013 Super Frequency List on CD-ROM

**Broadcast database:** Nearly 10,000 entries with the latest schedules of all clandestine, domestic and international broadcasting services on shortwave. Compiled by top experts in this field with the assistance of more than 100 experienced collaborators and monitors worldwide.

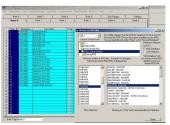


Utility database: Approximately 10,000 special frequencies from our international bestseller Guide to Utility Radio Stations, nearly 1000 abbreviations and 20,000 formerly active frequencies. Browse and search instantly for frequencies, countries, stations, languages, call signs, and times. And you also get the superb digital data decoding shareware program Radioraft by French radio amateur F6FLT, and 321 new WAVECOM digital data decoder color screenshots, including the Red Cross in Iraq and Afghanistan!

Order SFT26-13 - *Our Price: \$3495* 

### **ScanCat Lite Plus for Windows**

A product that supports all the most popular scanners on the market with one single easy to use interface. And the list of supported radios is growing and growing. Scancat-Lite-Plus for Windows supports the memory programming for Radio Shack and Uniden Scanners and at a price that anyone can afford. While our Scancat-GOLD supports both memory programming and scanning



from the PC, the new Scancat-Lite PLUS is targeted to those radio owners that need to program the radio's memories, but do not need the additional scanning control. VISTA & WINDOWS 7 COMPATIBLE

	n Database	Autoload	
Auto Configure	Accept	_	
Select Radio			
C PRO-64/204			
C PR0-76	C AUH:8700		
C PR0-79	C AUBITE		
C PR0-82	C BC895	- Baud Bate -	Comm Port
C PR0-83	C BC245	C 1200	
C PR0-89	C PRO-2052	C 2400	C Comm
C PR0-2017		C 4800	● Commi
C PR0-2019	C BC-250/296	C 9600	C Comm
	C BC-785-796	€ 19200	C Comm
C PRO-93/205	C BCT-8	C 38400	C Comm!
C PRO-95	C BCR98T	C 57600	
C PRO-96/209		C 115200	C Commi
C PRO-99	C BC246		C Commi
© PR0-97	6 BU246		

SFT19 - \$2995

# **AOR Presents Two New** Wide Coverage Professional Grade **Communications Receivers**



# AR2300 "Black Box" receiver

t's a new generation of software controlled black box receivers! Available in professional and consumer versions, the AR2300 covers 40 KHz to

3.15 GHz\* and monitors up to three channels simultaneously.

Fast Fourier Transform algorithms provide a very fast and high level of signal processing, allowing the receiver to scan through large frequency segments quickly and accurately. All functions can be controlled through a PC running Windows XP or higher. Advanced signal detection capabilities can find hidden transmitters. An optional external IP control unit enables the AR2300 to be fully controlled from a remote location and send received signals to the control point via the internet. It can also be used for unattended long-term monitoring by an internal SD audio recorder or spectrum recording with optional AR-IQ software for laboratory signal analysis.

# **AR5001D** performs with accuracy, sensitivity and speed

Developed to meet the monitoring needs of security professionals and government agencies, the AR5001D features ultra-wide frequency coverage from 40 KHz to 3.15 GHz\*, in 1Hz steps with 1ppm accuracy and no interruptions. Up to three channels can be monitored



simultaneously. Fast Fourier Transform algorithms provide a very fast and high level of digital signal processing, allowing the receiver to scan through large

frequency segments quickly and accurately. Controlled through a PC running Windows XP or higher, it is available in both professional and consumer versions. With its popular analog signal meter and large easy-to-read digital spectrum display, the AR5001D is destined to extend the legend of the AR5000A+3.

The exceptional performance of both these wide coverage professional grade receivers makes them perfect for use by federal, state and local law enforcement agencies, the military, emergency managers, diplomatic service, news-gathering operations, and home monitoring enthusiasts.



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Mailing Address:	Shipping Addres	ss (if diff	erent):	
Name:	Name:			
Street Address:	Street Address:			
City: State: Zip:				
Daytime Phone:	City:		State:	Zip:
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Card Number:	NC Residents ad	d 6.75%	Sales Tax	\$
Expiration Date: CVV2:	Add Shipping (to	tal produ	ucts before tax)	\$
expiration Date: Cvvz:	GRAND TOTAL Orders over \$50	00 beina	shipped by UP.	\$ S

#### Grove's simplified shipping/handling charges:

Please add the appropriate shipping charge shown below to your product total on the order form. We ship by UPS ground unless otherwise requested. Alaska, Hawaii, and non-US orders, please call for shipping costs.

Total Order	\$1-\$1999	\$20-\$9999	\$100-\$39999	\$400-\$89999	\$900-\$149999	\$1500-\$199999	\$2000-\$249999	\$2500+
Shipping Charges	\$7.95	\$17.95	\$19.95	\$22.95	\$25.95	\$26.95	\$28.95	\$32.95

Phone and Mail Orders: Call toll-free: (800) 438-8155; outside the U.S. and Canada, call (828) 837-9200 (no collect calls). Office hours for phone orders and technical assistance are 9am-5pm EST Mon.-Fri. (Closed 11:30-1:00 for lunch). Mail orders to 7540 Highway 64 West, Brasstown, NC 28902.If paying by check please print name and phone number of bank on check. Grove's Technical Support: Technical support for products purchased from Grove Enterprises is available 9am-5pm Mon.-Fri. However, due to high call volume, calls will be limited to three (3) minutes.

U.S. Shipping and Delivery: UPS Second Day & Next Day Air is available at additional cost. Express Mail is also available; contact us for charges. Purchase Orders: Written purchase orders are accepted from city, state and federal agencies and institutions. Terms are net 30 days, with an additional 1-1/2% per month service charge beyond 30 days.

Foreign Shipments: Contact us for shipping costs. Payment is expected by International Money Order or bank draft drawn in U.S. currency, drawn on a U.S. bank. Post Office insurance does not apply to some countries and we do not assume responsibility for losses beyond proof of shipment.

will require an adult signature on delivery.

Grove's No-Hassle Return Policy: If you decide you don't like a product, Grove Enterprises doesn't penalize you for it. There is NO restocking fee so long as you call our toll free number for a return authorization within fifteen days of shipment and the item is returned in new condition. Once the item is received we will give you credit toward another item or issue a full refund (less shipping charges). Software cannot be returned if opened.

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#### AFFORDABLE

I have been a long time subscriber—off and on--since the early eighties when your format was newsprint. Through the years your staff and contributing writers have done a great job in producing some very informative articles. -Mark C.

Have downloaded my first copy of MTXpress. The clarity of the pages is breathtaking; very easy to read. This is a brilliant idea: Wish I had known about it earlier. - Barry, UK

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