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ANOTHER GILFER-USA IMPORT
 The New NRD-515 PLL Synthesized
 General Coverage "Intelligent" Receiver



Best Value Yet In SWL Receivers

- Continuous coverage, 100 kHz — 30 MHz
- All-Mode Reception, AM, LSB, USB, CW, RTTY
- Digital Tuning With Photo-Type Rotary Encoder
- All Solid-State With Electronic Tuning & Switching
- 24-Channel Memory Option, Easily Programmed
- ONLY \$1490

See It On Pages 6 & 7

GILFER SHORTWAVE

Box 239 Park Ridge, NJ 07656 USA Ph 201/391-7887

Hello from SWL Headquarters . . .



Jeanne and O. Perry Ferrell

Coincident with the explosive growth in listening to foreign shortwave broadcasts, we are pleased to send you our new 32-page catalog. GILFER is the world's largest — and only — full-service supplier of everything anyone needs to engage in, enjoy or improve distant radio reception. We market those receivers that meet our standards, publications not obtainable elsewhere and accessories made for, or exclusively imported by us for North American distribution. Your orders are given prompt attention and dozens of items in this catalog are shipped within 48 hours. 1981 is our 28th year of direct marketing shortwave listening supplies, publishing, and helping thousands of people like yourself to hear the world direct.

New 35th Edition of The "Must" Book for Every Shortwave Listener

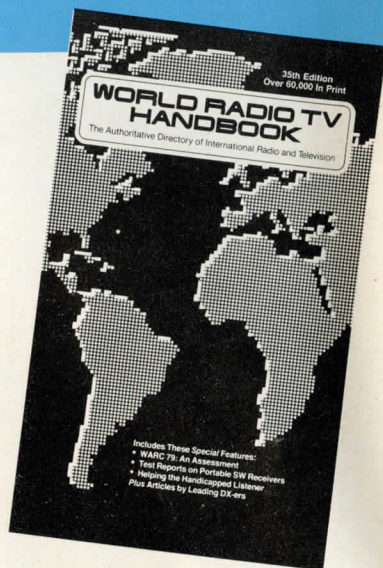
The World's Most Complete and
Authoritative Guide to All
Broadcasting, All Countries.

- Recommended by Every Avid SWL
- Lists all broadcasting stations SW-AM-FM-TV (high power USA)
- Lists frequencies of shortwave stations
- Lists country-by-country, program data, schedules, power, beam headings, etc.
- Information on equipment, clubs, propagation.

There are two essential items to enjoy the hobby of shortwave listening — an all-band receiver and the latest edition of "The World Radio TV Handbook." Without either, the hobby just doesn't work right.

With WRTVH by your side, you can track down any station and any detail about broadcasting anywhere in the world! Schedules, frequencies, countries, programming, shortwave, medium wave, FM, TV call signs, addresses, transmitter powers, beam antenna bearings, geographic coordinates, relay stations, slogans, interval signals, feature programs, home service and regional transmissions. All this and more is yours in the 1981 WRTVH.

In the 35th edition you'll find fascinating new articles in the How To Listen section . . . informative articles on "DX'ing China," "DX'ing 60 Meters," "DX'ing in Developing Countries" and "DX'ing For the Disabled." Equipment reviewer Larry Magne returns with important observations



WRH-35 \$16.50

and tests on shortwave portable receivers. Just the sort of information you need to make a wise purchase. Larry rounds out his feature article with test results on many of the popular active antennas and preselectors.

And like all years, WRTVH is updated to bring you the latest information on frequencies and schedules. Beginning or experienced listeners need this vital book within easy reach.

WRH-35 \$16.50 (add \$1.50 UPS or \$2.00 for priority mail — in either Canada or USA)

MAP OFFER: INCLUDE THE HAMMOND WORLD MAP, (p.29) WITH YOUR HANDBOOK ORDER FOR JUST \$1 MORE (MAP-1)

Gift Certificates Available

New Yaesu FRG-7700—All The Features For Less

**FRG-7700 \$725.00
(plus shipping)**



All New, All Band, All Mode— PLL/Synthesized Circuitry— 12-Channel Memory— And The Right Price!

The Yaesu FRG-7700 — a NEW solid-state superheterodyne design using PLL synthesized circuits — features coverage from 0.15 to 29.999 MHz with a 12-channel direct access memory for automatically retuning to your favorite stations.

Nothing has been left out of the 7700 and its wealth of features make this receiver truly remarkable. You'll easily listen to long wave, AM broadcast and shortwave without any gaps in coverage — thanks to 1981 synthesized frequency generation. And, you'll tune it easily — just flip the 40-position MHz knob to automatically select the band you want — then spin the KHZ tuning knob to the exact frequency.

Dual readouts — digital for the exact frequency with analog backup.

Then, to make fast work of choosing your favorite stations, just program their frequencies into the 12-channel memory so they'll be right at your fingertips at the touch of a button.

To help you keep track of time there is a built-in digital clock with a timer that does it all when it comes to tape recording.

You are in complete control when it comes to tailoring reception to fit band conditions. The continuously adjustable front-end attenuator eliminates overloading due to strong signals. A built-in noise blander wipes out ignition interference. When signals are too close together just twist the bandwidth switch to choose a GILFER-modified selectivity installation of a 2.4, 4.0 or 6.0 kHz filter at -6 dB (or 6.0, 10.0 and 15.0 kHz at -60 dB, respectively). You can change the automatic gain control action (AGC) from fast to

slow at the tap of a button switch. The 7700 is even capable of receiving narrow-band FM (when used with a VHF converter) and comes with a squelch control for silencing FM background noise.

The advanced PLL synthesized circuit with up-conversion uses a crystal lattice filter in the 48 MHz first IF strip. The complete receiver utilizes 37 integrated circuits, 107 transistors and 97 diodes! All of the AM and SSB sensitivity that you need — down to 0.5 μ V on SSB. Power for any application — 100/120/220/240 VAC, 50-60 Hz, plus 12 VDC with a GILFER installed DC kit. Modes for every type of listening: AM, Upper Sideband (USB), Lower Sideband (LSB), CW and NBFM (narrow-band FM). Audio output is 1.5 watts into a built-in speaker.

And, of course, from the long-term experience gained by Yaesu in manufacturing their famous FRG-7 and FRG-7000 receivers, using the 7700 is a joy with its controls so logically and comfortably arranged. The main tuning knob with its built-in fingertip spinner is in a position so that the receiver is readily adaptable to right-handed or left-handed listeners. Push button controls are grouped in tiers according to their function. Speaker mounting on the left side of the cabinet faces the user — unlike many receivers where the speaker is aimed at the wall or ceiling. As a bonus, the Bandswitch includes positions for rapidly tuning to the present day and future radio amateur bands (2.0, 3.0, 7.0, 10.0, 14.0, 18.0, 21.0, 24.0, 28.0, and 29.0 MHz).

That's the new Yaesu FRG-7700. So complete, so professional, it's destined to find a place in thousands of SWL listening posts. And with its GILFER modifications and low price this receiver is undoubtedly the best buy under \$1,000.00.

FRG-7700 \$725.00 including GILFER modifications and 12-channel memory; add shipping

Speed Your Visa/MC Card Order, Phone (201) 391-7887

FRG-7-4, Yaesu FRG-7 with 3 kHz or 4 kHz filter installed (specify) \$350.00 plus shipping



Yaesu FRG-7 Is A Fine Receiver — But When GILFER Gets Through, It's GREAT — And Low Cost, Too!

In these days of inflated promises at inflated prices, the GILFER-modified Yaesu FRG-7 seems almost too good to be true. But here it is, especially made to be just what you shortwave listeners want in a communications-style receiver, and at a price that even the casual SWL can justify.

Of course, to get a great receiver, GILFER had to start with a fine one at the outset. The Yaesu FRG-7 Mk III is just that. Its all solid-state circuitry is built to last, it uses the drift and image-free design known as the Wadley Loop Circuit, and its direct frequency readout uses separate dials for MHz and kHz settings (additive readout accuracy is better than ± 5 kHz). All three major tuning controls use rotating drums. Other fine features include Fine Tuning (SSB Clarifier) control, LED indicator for "MHz" lock and maximum sensitivity, automatic switchable noise limiter, and 3-position audio tone switch. The front panel also has a standard phone jack, tape recording jack, dial-light saver switch, 10 or 20 dB attenuator switch, volume control, and "Mode" switch (USB/CW, LSB, AM, and AM/ANL). It can be powered by 117 VAC or from an internal 8 "D" cell battery pack. Its attractive cabinet is finished in gray and black, measures 13½" w × 6½" h × 11½" d, and weighs in at 16 lbs.

And now here's how GILFER makes it great! Of course it goes, almost without saying, that here at GILFER we carefully inspect and verify operation of every FRG-7 we ship (no silent mysteries for our customers). But, most important

— GILFER modifies every i-f strip by substituting two expensive top quality ceramic filters for the one original factory-supplied filter. The result is vastly improved selectivity (station separating ability). The selectivity curve becomes either 3.0 or 4.0 kHz wide at -6 dB and 8.0 or 10.0 kHz at -60 dB (instead of the original 6 and 20 kHz). At the same time GILFER adjusts the AGC release and S-meter damping time, resets the BFO for best possible SSB reception, increases the i-f stage gain and r-f sensitivity, improves the ANL circuit and installs full-wave AM detection. A digital counter output jack is added and the MHz and kHz dials are recalibrated and each customer is supplied with a set of dial deviation figures for future reference and Proof of Performance.

FRG-7-4 Yaesu FRG-7 modified with 3 kHz or 4 kHz filter installed (specify) \$350 plus shipping

Selectivity Modification Kit for FRG-7
Included are 2 precision ceramic filters to narrow your FRG-7 selectivity curve down to 4 kHz at -6 dB and 10 kHz wide at -60 dB. Also supplied are the parts to shorten AGC release time, improve meter damping, increase 455 kHz i-f gain and improve noise limiter clipping level. Very complete instructions. All you need is a small soldering iron and 1 hour!

MOD-1 Kit \$44 (+\$1) USA; (+\$4) Airmail Overseas

Extension Speakers for FRG-7 and NRD-505
Yaesu SP-101B speaker, for use with your FRG-7 or NRD-505, matches color and impedance. Has clean full sound output, measures 6"H x 11¼"D x 8½"W. Cord comes with mini-plug or phono plug (specify).

SP-101B \$28 (+\$3)

Modification Kit For FRG-7000
This kit provides dual selectivity in your FRG-7000 using the SSB inboard 2.4 kHz filter (for NARROW) and substitutes a 4.0 kHz filter as the WIDE option. Parts are also supplied to improve and retain operation of the ANL circuit and increase the sensitivity of the AM detector. Requires careful desoldering. Decal supplied to be cemented on front panel. **MOD-2 Kit \$59 (+\$1) USA; (+\$4) Airmail Overseas**

GILFER-Modified New Drake R-7 Synthesized General Coverage Receiver



R-7 \$1675 plus shipping
R-7-3 with Sherwood filter \$1700 plus shipping

This Fine New Drake Receiver Is Even Better When GILFER Adds More Filters.

A great receiver from a great old American manufacturer. And GILFER modifications prove once again that even the finest can be improved upon. All at a price which sets it apart from the ordinary, yet within reach of those who appreciate superiority.

The Drake R-7 is unique in its full coverage of 0 to 30 MHz frequencies without gaps in its tuning and without use of range crystals. This feature not only makes this receiver easy to use, it also provides a smoothness and continuity of tuning that permits fast changes in listening frequencies.

100% solid-state broadband design, the R-7 uses a special front-end circuitry featuring a high level double balanced mixer and 48 MHz "up-converted" first i-f for better image rejection and strong-signal handling performance. All front-end bandpass filters are included to permit operation from very low frequencies (VLF) to high frequencies (HF) without need of external preselectors. A 10 dB gain push-button controlled low noise broadband preamplifier can be activated on all ranges above 1.5 MHz.

The special new low-distortion "synchro-phase" AM detector provides superior international shortwave broadcast reception, permitting easy use of the fine selectivity in both AM and exalted carrier reception modes.

GILFER modifies the selectivity of the R-7 to provide the utmost choice of i-f response curves to suit listening conditions. The modification consists of installing all filters needed to

enhance voice communications and changing the front panel switch nomenclature to correspond with those filters. Thus, the Selectivity Switch positions read 6.0, 4.0, 2.3, 1.8 and 0.5; with the Sherwood filter installed, the switch positions are 6.0, 4.0, 3.0, 2.3, and 1.8 kHz).

A tunable i-f Notch Filter effectively reduces heterodyne interference from other stations and the famous Drake full electronic passband tuning system permits adjusting the passband for optimum LSB/USB and exalted carrier to aid in interference rejection. Three AGC time constants plus "Off" are switch selected from the front panel to permit adjusting AGC to band conditions.

Frequency readouts include both digital and analog. The digital readout may be used as a 150 MHz counter, switchable from the front panel with access thru a rear panel connector (a great aid when measuring frequencies of other devices in your listening set-up or in your workshop).

Other features of this exceptional receiver include a built-in power supply, separate incremental tuning (RIT) for the ability to tune away interference without losing your station, built-in speaker, built-in 25 kHz calibrator to keep that analog dial "dead on," special output for tape recorder use, and a special multi-function antenna selector/50 ohm splitter that's switch selected from the front panel (ideal for use with multiple antenna and receiver set-ups).

Options include a noise blanker and up to 8 crystal-controlled fixed frequency channels (for those favorite stations at the rotation of a switch).

Styled in blue, black and gray, the R-7/DR-7 looks as super as it performs. Order yours now.

R-7 \$1675 plus shipping
R-7-3 with Sherwood filter \$1700 plus shipping

Another GILFER-USA Import — The New NRD-515. We View It As The World's Finest Receiver Value.

NRD-515, receiver \$1490 plus shipping

NRH-515, memory unit \$290.00

NVA-515, speaker \$47.50

CFL-260, 600 Hz filter \$50.00

CFL-230, 300 Hz filter \$70.00



The "Intelligent" Receiver — A PLL Synthesized General Coverage Receiver With All The Features Plus 24-Channel Memory Option At A Realistic Price

"The precision tuning, the unbelievable stability make using the new 515 an awesome experience. You'll never be content with your old receiver again." — O.P. Ferrell.

One hesitates to apply that old phrase of the "ultimate," but it does seem difficult to envision a receiver with more features and better performance for anywhere near the price of the new NRD-515.

Born of the Japan Radio Company, the 515 has all the performance advantages any SWLer or amateur radio op could want. All wave continuous coverage from 100 kHz to 30 MHz. All modes including AM/USB/LSB/CW/RTTY. PLL (phase locked loop) digital encoder VFO tuning, direct mixer, pass-band tuning, all-electronic RF tuning and switching, optional 24-ch. memory, all solid-state, several selectivity options, in an up-conversion double super-hetrodyne circuit.

PLL Digital VFO — heart of the 515. It consists of a PLL synthesizer phase-locked with a 10 MHz

crystal reference and combined with a photo-type rotary kHz/Hz encoder. Designed for highest reliability, the VFO encoder has one mechanical part, no backlash, no reading error, no secular variation. The synthesizer is housed in a die-cast aluminum case for rigidity and shielding.

Digital Tuning — A Unique Experience. Unlike other receivers, the 515 tuning is remarkably easy (once one gets used to its regimented precision) and it is remarkably superior. First, twirl the "MHz" tuning knob to the MHz frequency you want — do this by either referring to the knob nomenclature or the first two figures of the digital readout. Second, spin the "Tune" knob to the kHz frequency you want (the knob covers 10 kHz per revolution in precise 100 Hz steps). Tuning is controlled by pulses generated by the rotation of the encoder wheel. A momentary UP/DOWN switch facilitates frequency jumps (about 200 kHz/sec). Electronic "Lock" switch on the front panel prevents frequency shift due to accidental movement of the tuning knob. Accuracy of tuning, is to 100 Hz and drift is less than 50 Hz per hour after warm-up. All this means that you'll zero in on your favorite stations quickly, easily, precisely — as you never have before.

Continuous Coverage, All-Modes. Listen in on any station from 100 kHz up to 30 MHz. That takes in the low frequency stations, the standard broadcast AM band, the Shortwave Bands, and the Amateur Bands. Continuously! No missing segments, no awkward shifts. You are ready for all the HF listening to be had — even the new Amateur and broadcast Bands just granted by the WARC.

Up-Conversion, Double Superhetrodyne Circuitry. The 515 converts every signal into a first IF of 70.455 MHz. It uses a high-performance balanced mixer at the input and a crystal filter in the first IF stage. These add up to a marked improvement in multi-signal handling and reducing adjacent frequency interference. A noise blanker is provided as well as a 2-step switchable input attenuator (10 dB, 20 dB or "off") to take care of either pulse interference and strong signals. Automatic Gain Control is switchable (Fast, Slow and Off). Switchable Receiver Incremental Tuning is provided (RIT) for those occasions when a slight movement of the receiver frequency is necessary to avoid interfering signals.

Effective Pass-Band Tuning. IF filtering is switchable in 4 steps of bandwidth, 6 kHz, 2.4 kHz, 0.6 kHz (optional) and AUX (optional 0.3 kHz filter available for CW use). These ranges permit just the right bandwidth for best listening under all conditions — and SSB under good conditions, 6 kHz for AM, 2.4 kHz for AM and SSB under normal-to-marginal conditions, 0.6 kHz for SSB under poor conditions or CW under normal conditions, and 0.3 kHz for CW under poor conditions.

24-Channel Memory — The Option Every SWLer Wants. Designed to rest atop the 515, the Memory Unit is perhaps the most convenient device made for serious SWLing. Just flip the rotary selector switch to any one of your 24 favorite stations and enjoy! Nothing could be easier, faster or more reliable! And Memory manipulation is simple, just turn the Channel

switch to an empty position (or one you want to change), tune in the frequency on the receiver that you want stored in the Memory, and push the Memory button on the unit. From then on that channel is always tuned to that frequency until you wish to change it — always there for your listening pleasure, instantly. No other receiver has this versatile, low priced option. And once you've used it, you'll agree it's indispensable.

All The Accessory Circuits You Need. The Memory unit connector on the rear of the receiver is also used for frequency data input/output for control of a microcomputer or other device. Other rear terminals are included for IF output, Line output, Recorder input, and Speaker. Amateur Radio ops will appreciate the VFO output, external VFO input, sidetown input, anti-trip output, Monitor On-Off, MUTE terminal, etc.

Modular, Solid-State, and Beautiful. The 515 is all solid-state with the latest devices including low-power Schottky TTL IC's and CMOS IC's. Both PC boards are glass epoxy and plug into the front panel. Small in size, just 1 1/2" wide, and finished in handsome gun-metal gray, the 515 is ready to take its place in any sophisticated listening environment.

And at these reasonable prices, the 515 is a world beater!

NRD-515, receiver \$1490 plus shipping
NRH-515, memory unit \$290.00
NVA-515, speaker \$47.50
CFL-260, 600 Hz filter \$50.00
CFL-230, 300 Hz filter \$70.00

Gift Certificates Available

Another GILFER Super Import — The NRD-505 All-Band Synthesized Receiver.



The Computer That Speaks In Shortwave. From its elegantly simple front panel to its regimented interior, the genesis of the NRD-505 is evident... computer technology.

The first consumer receiver built on the *Card-Frame System*, the NRD-505 uses the modular design approach with 9 edge-mounted glass-epoxy circuit boards and an interconnecting "mother" board.

66 ICs, 18 FETs, 54 transistors, and over 100 diodes... Schottky TTL ICs and CMOS ICs contribute to its performance and low power consumption.

Phase-Locked-Loop (PLL) Digital Synthesizer. The NRD-505 local frequency is supplied from a digital synthesizer with a reference crystal oscillator and a permeability-tuned variable frequency oscillator for outstanding stability. The Synthesizer has its main components housed in an aluminum die casting and employs a drift-cancelling circuit and a full-scale double-loop PLL circuit.

Digital and Analog Frequency Readouts. The receiver uses a frequency counter with 6 big red LEDs for digital readout in increments of 100 Hz and a 1 kHz-graduated dial for high accuracy and convenience.

4 Programmable Memories. More computer-like capability. Another "first," the NRD-505 uses CMOS random access non-volatile memory that stores up to 4 channels of frequencies for instant return to your favorite dial spots.

All-Wave, All-Mode Reception. Continuous coverage from 100 kHz to 30 MHz. Receive RTTY, CW, Upper Sideband, Lower Sideband, and AM modes.

Up-Conversion Double Superheterodyne. The first IF is 70.455 MHz, the second is 455 kHz. The push-pull RF amplifier has an AGC-

controlled PIN-diode RF attenuator and an RF gain control for complete control of sensitivity and freedom from overloading and cross-modulation. A built-in noise blanker eliminates impulse (auto ignition) noise.

Fast, Easy One-Hand Tuning. The MHz Band Selector is stepped from 0 to 29 MHz in 1 MHz increments, and the double tuning knob (one turn is 100 kHz and 33 kHz respectively) assure speedy tuning. The input bandpass filter system is automatically switched to eliminate the need for any bothersome preselector tuning.

Electronic Tuning, Electronic Switching. All tuning and switching are electronically performed without any mechanical movement to assure fast response, high reliability, and long life.

Elegant styling. Restrained, quiet look of dark green-gray for the front panel, lighter gray for the dust-proof enclosure. Aluminum is used throughout with handsome die cast front panel reliefs. Speaker cabinet matches receiver height, color and styling.

NRD-505-R, receiver \$2275 plus shipping
NRD-505-M, memory \$125
NRD-505-CW, cw filter-narrow \$50
NRD-505-SP, speaker enclosure \$90

Primary Specifications: Range: 100 kHz-30 MHz (30 bands in 1 MHz steps). Modes: RTTY, CW(N), CW(W), USB, LSB, AM(N), AM(W). Sensitivity: (S/N 10 dB) 1.6-30 MHz: less than 0.5 μ V (CW/SSB), less than 2 μ V (AM). 100-1600 kHz: less than 10 μ V (CW/SSB), less than 40 μ V (AM). Selectivity: At -6 dB: 6 kHz (AM-W), 2.1 kHz (RTTY/CW-W/SSB/AM-N), 0.6 kHz (CW-N), At -60 dB: 10 kHz or less (AM-W), 6 kHz or less (RTTY/CW-W/SSB/AM-N), 3 kHz or less (CW-N). Image Rejection: -70 dB or more. IF Rejection: -70 dB or more. Input Z: 50-75 ohms unbalanced. AF Outputs: to speaker: 1 watt or more, 4-8 ohms; to recorder/line: 1 mW or more. Power: 100/115/200/230 VAC, 50/60 Hz, 50 VA. Size: 340 mm w. x 140 mm h. x 300 mm deep. Wt.: approx 10 kg.

We Search The World For The Best SWL Gear

RF-2900 \$234.95 plus shipping

Popular Panasonics



RF-4900
\$479.00 plus shipping

RF-085 \$84.95 (+\$3.00)



Panasonic RF-4900 Receiver & GILFER-Modified Selectivity— Really ahead of its time.

This Panasonic SWL receiver has the right features for fine performance... and Gilfer adds the modification to make it exceptional.

Features include a double-superheterodyne circuit with tuned-input RF amplifier for superior sensitivity, fast/slow tuning for ease and precision in finding those elusive stations, and 5-digit fluorescent readouts so you can tune in stations right down to the last 1 kHz.

And you'll hear stations across the world... AM, FM and eight shortwave bands that cover from 1.6 MHz to 30 MHz continuously... no gaps, no missed stations.

And you'll hear those stations with greater clarity, less interference, because GILFER modifies the selectivity. In the new WIDE mode the selectivity is 4 kHz at -6 dB and 12 kHz at -40 dB, then a new narrow filter makes the NARROW mode less than 3 kHz wide at -6 dB and less than 10 kHz at -60 dB (as good as some of the best communications receivers). Your favorite stations seem to stand right out from the QRM around them for easy listening.

The RF-4900 also has all the controls and built-ins you need — calibration knob, BFO pitch control, RF Gain control, Automatic Noise Limiter, S/Battery Meter, Bass & Treble controls, 4" speaker, antenna and power jacks. And it's light enough (17 $\frac{3}{4}$ lbs) to go anywhere with batteries (not supplied). Even the new blue-green digits are readable in sunlight!

The world goes with you with the RF-4900.

RF-4900 \$479.00 plus shipping

Panasonic RF-2900 Digital Portable

The RF-2900 has a double-conversion superheterodyne circuit, fast/slow tuning for precise station selection and 5-digit (kHz on SW/AM, MHz on FM) readout for pinpoint accuracy.

Coverage includes AM, FM and three shortwave bands ranging from 3.2 MHz to 30 MHz without gaps. And the selectivity is great so the listening is great... A ceramic IF filter measures just 4 kHz wide at -6 dB and 12 kHz at -40 dB in the WIDE mode; in the NARROW mode, the curve measures 4 kHz at -6 dB and just 14 kHz at -60 dB!

Of course the RF-2900 has all the controls and built-ins you need... RF Gain, BFO Pitch Control for SSB listening, S/Battery Meter, built-in antennas for all bands, separate Bass and Treble controls, 4" speaker, dial light, dial hood, plus jacks for about everything including recorder.

RF-2900 \$234.95 plus shipping

Panasonic RF-085 Portable

Shortwave, AM and FM, all in a miniature marvel of a receiver measuring just 7" wide, 4 $\frac{3}{8}$ " high, and 1 $\frac{1}{2}$ " deep. It puts your hobby on a wrist strap!

Easy to carry and easy to use. A slide switch selects any of 3 shortwave bands (2.3-5.5, 5.5-11, 11-18 MHz), AM or FM broadcast bands. Slide pots for volume and tone control. Slide switch for power on-off. And one knob, the main tuning knob, side-mounted for easy turning with an LED lighting up to help peak your SW tuning.

Built-in ferrite rod antenna for AM, plus telescoping antenna for FM and shortwave. Two IC's, 8 transistors with 5 microvolt sensitivity. Powered by 4 AA cells (not supplied).

RF-085 \$84.95 (+\$3)

Super Technology SWL Portables

2001 — \$290.00 plus shipping



ICF-7600 \$147.95 (+\$3.00)



CRF-1 \$1199.95
plus shipping

6800W \$675.00
plus shipping



S-3400
\$975.00
plus
shipping

The Sony 2001 FM, AM, PLL Microcomputer-Controlled Scanning SWL Receiver.

Like a computer with keyboard and digital electronics, the new Sony ICF-2001 is a peek at tomorrow's receiver technology.

At first glance, there seems to be a definite shortage of knobs — mostly push-buttons and slider controls. But that's in keeping with the tuning scheme. Just punch in the frequency on the COUNTER keys — the frequency appears on the digital display (if you don't do it right, a TRY AGAIN appears) — press the EXECUTE key to tune in the frequency. For manual tuning, press the UP or DOWN keys to change frequency by 1 kHz on AM, .1 MHz on FM (a FAST key speeds changes to 10 kHz on AM, .2 MHz on FM). An SSB/CW "Compensator" control permits incremental tuning to 6 kHz without changing displayed frequency. A Signal-Strength indicator has multiple LEDs, just tune for maximum number lighted.

For favorite stations, six MEMORY PRESET buttons store six FM or AM frequencies in the 2001 memory bank (dual function keys permit two additional frequencies to be stored).

The 2001 programmable scanning has adjustable top and bottom limits — just punch in the limit frequencies with the ENTER and L-1 or L-2 keys. Scanning is automatic with your choice of mode: stopping when a station is tuned-in or when you press the START/STOP key.

Many other features like programmable SLEEP timer, all kinds of built-ins, 3-way power, and super specs top off this unusual receiver.

2001 \$290.00 plus shipping

Cigarette Lighter or Battery Cord for 2001-
(DCC-127A) \$30.00

Sony ICF-7600 Mini-Portable

Don't want to miss broadcasts from AFRTS, BBC, RCI, VOA, RN and DW when a business trip or vacation beckons? Take along the 7600 — it features bandspread tuning across the International 19, 25, 31 and 49 meter bands (plus the European 80-meter band). Stations are easy to tune (LED indicates signal maximum), sound quality can be set for hi-cut, lo-cut, or both (called "NEWS"). Latch switches turn on the 7600 to either AM (530-1610 kHz), SW or FM (76-108 MHz). Positive power off switch prevents accidental battery discharge.

Surprisingly small package measures just 7 1/8" W x 4 5/8" H x 1 1/4" D. Weighs 23 oz with 4 AA batteries (not supplied) installed... uses telescoping antenna on SW & FM, ferrite rod on AM... jacks provides for tape recording, earphone (supplied) and 6 VDC external supply. A neat handsome and useful package.

ICF-7600 \$147.95 (+\$3)

Sony ICF-6800W Portable

Thirty bands, 0.5 through 29.999 MHz, for shortwave listening. Plus broadcast band standard AM. Plus FM!

Crystal-controlled PLL synthesized circuitry for stability and accuracy, automatic offset readings for LSB/USB, digital and analog drum dial readouts (with switch to turn off digits to conserve 100 mA from D cell batteries). RF gain control plus shortwave Preselector tuning with "honest" meter readings for tuning to maximum sensitivity, scale-adjust knob for accurate dial drum calibration, separate FM tuning and dial scale, switchable AFC. Separate bass and treble tone controls, recording output jack on front panel, separate standard headphone jack and mini-jack for single headphone, hidden light for late night logging,

switchable panel illumination with automatic 20-second turn-off. Built-in AM antenna and collapsible sensitive SW whip. External antennas may be used for positive reception improvement.

Best stability and freedom from drift of any portable being marketed. Handsome black and silver styling with fold-down world map and time table lid covering top side battery compartment, convenient carrying handle on left side of cabinet, screw thread adjustable height feet tilt front for better dial viewing. And it operates from 110/220 VAC, 12VDC, or internal 6 D cell batteries (not supplied) so you can enjoy it anywhere. **6800W \$675.00 plus shipping**

Sony CRF-1 Synthesized Portable

Big enough to use efficiently at home but handy enough to take anywhere. PLL frequency-synthesized tuning (no bandswitching — 10 kHz-30 MHz), the dual up-conversion superhet circuitry has RF preselection, wide/narrow bandwidth filters, a unique search/bandspread tuning scheme, digital and analog readouts, built-in noise blanker, built-in BFO for SSB and CW listening.

Other nice little extras you'll appreciate are the collapsible antenna, antenna efficiency selector switch, jacks for "mute," tape recorder, timer, external speaker, and external power, combination signal strength/battery meter with check button, switched dial light, LED "lock" tuning indicator, front panel headphones jack, and an integral carrying handle that also functions as a stand/tilt bail. The AC power supply is removable and may be replaced with 8 "D" cells.

Of course it has nice specs, too. Like 0.3 μ V sensitivity on SSB, selectivity narrowing down to 4.4 kHz on AM and 2.0 kHz on SSB at -6 dB, 100 dB image rejection, and the tone sounds

great with 1.2 watts to its built-in 4" speaker. Looks good as well with two tones of gray in a 10 3/4" W x 4" H x 13 1/4" D size.

CRF-1, \$1199.95 plus shipping

Grundig "Satellit" Portable

Grundig stands for the very best in precision receivers and Satellit is their finest portable. 21 bands cover 18 SW bands from 160 to 10 meters, plus FM, AM, and LW (150-400 kHz in modes AM, SSB (USB & LSB), and CW. Frequency display is both digital and analog with sliderule dials and 5 LEDs — great for accurate tuning. And the removable 4-digit LCD 24 hour quartz clock assures making broadcast schedules on time. The separate FM tuner has 6 programmable channels for your favorite stations plus its own tuning control and dial. The low frequencies, LW, MW, standard broadcast and SW1 & 2 (1.6-5.2 MHz), also have their own tuning control and dial. The remaining 8 tuning ranges, covering 5.0-30 MHz in 16 bands, have a drum tuner with gold-plated contacts for long life — its switch is mounted on the right side, the dial and tuning control in front, thus putting all three dials and controls stacked at the right — easy to operate, easy to read.

Technically, the Satellit 3400 is superior in all respects. The double-conversion circuitry is solid-state, uses crystal filter 1st IF, tuned pre-selector for peak sensitivity, 9 ICs, 51 transistors, 23 diodes, and all the controls one could wish for.

The sound system of the Satellit 3400 is markedly superior, boasting 2 speakers (low/medium frequency speaker plus switchable tweeter) with a 7.5 watt output.

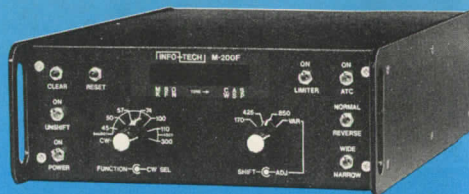
Operation is from 220/240, 110/117 VAC or from external 12 VDC (car or boat battery), or built-in battery supply.

S-3400 \$975.00 plus shipping

Shortwave Performance Accessories



SX-59 \$87.00 (+ \$2.00)



M-200F \$560.00 (+\$4.00)



DS-111 \$79.95 (+\$3.00)

Increase Sensitivity — Add the Mizuho SX-59 Preselector/Preamp

Add the new Mizuho SX-59 preselector and let this low noise preamplifier add 3 or 4 S-units of sensitivity. Tunable in 3 switched bands from 3 to 30 MHz, the SX-59 is completely automatic — turn it on and it connects itself into the antenna circuit. Turn it off and the antenna is re-connected right back to the receiver — no manual bypass switching ever required.

Beautifully styled in a solidly-made gray colored cabinet, the SX-59 can also introduce an extra 20 dB of attenuation to cope with those excessively strong signals that make SW receivers climb the walls. The RF GAIN control is fully adjustable and an LED tells you when the power is on. Comes with dual input/output connections to match virtually every receiver and antenna combination. 117-volt AC powered.

Simple to use. Select the band and tweak the tuning dial for maximum signal. You'll be surprised at what you're missing — and if you've an old single-conversion receiver, the SX-59 will reduce images by 4 or 5 S-units, besides!

SX-59 \$87.00 (+ \$2.00)

INFO-TECH M-200F The SUPER Tri-Mode Converter for Video Display of CW and RTTY Reception

Ever wonder what those CW and RTTY signals are sayings? Add the new M-200F converter. It translates Morse and RTTY (ASCII or baudot) to video or hard copy printout (just add a good TV monitor or serial ASCII printer). Your present

28th Year Serving The SWL

receiver is adequate if it is shielded, has Fine Tuning and a stable BFO.

For CW, the M-200F will automatically adjust for speed (5-55 WPM) and word spacing. It has an LED tuning aid, panel control for sensitivity and noise-minimizing filtering. For RTTY, the M-200F has selectable rates of 45, 50, 57, 74 & 100 baud (60, 66, 75, 100 & 133 WPM) plus 110 and 300 baud ASCII; Auto CR/LF; video indication of incoming speeds; selectable unshift on space; auto threshold control (single-tone copy); 2-stage selectivity; tunable SPACE filter and switchable limiter.

Video output is composite negative sync with 5x7 dot matrix. Four display formats user selectable: 16 lines X 32 characters per line; 16 lines X 72 characters; 25 lines X 32 characters and 25 lines X 72 characters. Automatic scrolling from bottom to top with cursor. Fifty or 60 Hz and 117 VAC or 230 VAC user selectable.

A fascinating "MUST" addition to SWL'ing.
M-200F \$560.00 (+\$4.00)

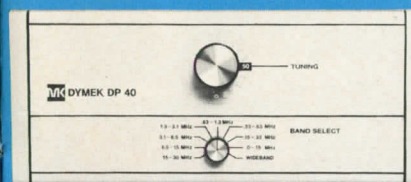
We recommend and stock the Sanyo VM-4509 video monitor for use with your M-200F Converter. Special price with M-200F is \$190.00 (+\$5.00)

Quality External Loudspeaker Has Built-in Filters

The McKay Dymek DS-111 is a New Product as this catalog is going to press. Usable with any SWL receiver, the DS-111 has two front panel switches to alter the built-in loudspeaker sound quality. Listeners can accentuate music and voice with LOUDNESS, or shape the sound to FLAT, SSB, CW, Low Pass, High Pass or On/Off. GILFER will supply necessary connecting cord to your receiver. Specify RCA phono, regular phone or mini-plug.

DS-111 \$79.95 (+\$3)

Receiving Accessories To Make Listening More Versatile



**DP-40 \$180.00
(+\$5.00)**



**AUD
Only \$49.50
(+\$1.50)**



**SF-0330
\$84.50
(+\$2.00)**

McKay Dymek RF Preselector.

In an age of wideband receivers, it may seem contrary to technology to add a preselector, but often it is necessary such as in close proximity to high power transmitters to eliminate cross-modulation interference and desensitization.

The McKay Dymek DP40 is a passive device, that is non-amplified, which shapes the input selectivity curve to eliminate undesirable signals at your location. Its nine band-select positions provide a five-element lowpass filter for 0 to 0.15 MHz, dual-track tuned circuits for 0.15 to 30 MHz, and a wideband bypass position to remove the preselector from the antenna circuit when not needed without disconnecting the device.

Typical performance figures are: at -3 dB, bandwidth is as narrow as 10 kHz at 150 kHz to as wide as 2.2 MHz at 30 MHz with insertion losses from 8.5 dB at 150 kHz to 2.5 dB at 30 MHz on 50 ohm systems. **DP-40 \$180.00 (+\$5)**

Mizuho AP-M1 Processor Enhances Signals Effectively

Filter bandwidth is variable between 100 Hz and 10 kHz and its center frequency is variable between 400 Hz and 4 kHz to give you complete control of intelligibility of sideband signals and the avoidance of annoying heterodynes from adjacent AM signals. The notch filter is variable in bandwidth from 70 Hz to 1500 Hz with a notch depth of nearly 50 dB to permit you to "notch out" any interfering signal. The REC-IN jack connects to the audio output or external speaker output (8-600 ohms) of your receiver and the EXT-SP jack (8 ohms with 0.1 watt or more output) connects to a separate speaker or a single ear-telephone. Function LED indicators show which

function has been selected. Just two controls for frequency and bandwidth make it easy to use. Color styled in black with chromed bale/stand, the unit measures about 5½" x 2" x 5".

AUD, \$49.50 (+ \$1.50)

GILFER Exclusive! Labelectron Special Audio Filter Improves Reception

Much of the noise picked up by your receiver can be screened out with a Labelectron SF-0330 filter. Housed in a stylish two-tone gray case, the SF-0330 features easy pushbutton control over the audio spectrum fed your loudspeaker or headphones. Connect to the external speaker jack and set the SF-0330 for low cuts at either 300 or 500 Hz and high cuts at 1500, 2200 or 3300 Hz. Previously mushy signals will suddenly become readable due to the elimination of low frequency rumbles and high frequency hisses. Cutoff responses are better than 30 dB per octave. Graph on front panel shows response curve. Internal audio amplifier has 1½ watt output. Supplied with DC power supply. LED shows on/off condition. Built-in speaker.

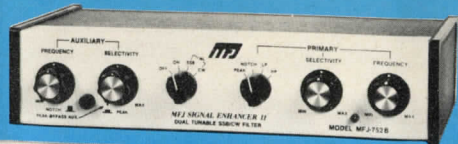
SF-0330 \$84.50 (+\$2)

GILFER Second-User SW Equipment & Accessories

GILFER does not usually accept trade-in's, but we do buy certain equipment from customers stepping up, or from estates. We also test and evaluate far more equipment than listed in this catalog — usually one or two pieces. Many items are disposed of at cost. If you're in the market for something "different" keep a self-addressed stamped #10 business envelope on file to obtain one of our periodic mailings.

Speed Your Visa/MC Card Order, Phone (201) 391-7887

Famous MFJ Shortwave Accessories



MFJ-752B \$89.95 (+\$2.00)

MFJ-304 \$59.95 (+\$2)



MFJ-308 \$79.95 (+\$2)



MFJ-1040 \$99.95 (+\$3)



MFJ-1020 \$79.95 (+\$3)

NEW 4 and 8-Band MFJ Mobile SWL Converters Put Your Hobby On The Road

Now you can add the pleasure and variety of your SWL hobby to your driving. Just attach one of these MFJ converters to your car radio to tune in the world of shortwave HF bands.

Called "World Explorers," the Model MFJ-304 covers 19, 25, 31 and 49 meters. Model MFJ-308 covers eight bands (those above plus 13, 16, 41 and 60 meters).

Compact and sensitive, the 4-band model measures just 5¼"W x 1¼"H x 4"D to fit just about anywhere under the dash in your car (the 8-band version is an inch wider and deeper). Two dual-gate MOSFETs give these converters excellent sensitivity. And they're easy to install; just plug the car antenna into the converter and insert the converter output cable into your car radio antenna jack, then connect the power cable to your nearest +12 VDC battery point.

Put wheels on your hobby with the MFJ mobile converters.

MFJ-304, \$59.95 (+\$2)
MFJ-308, \$79.95 (+\$2)

MFJ Receiver Preselector

This handy MFJ preselector/amplifier does it all... boosts weak signals, rejects out of band signals, and reduces images.

With coverage from 1.8 to 54 MHz, the MFJ-1040 has more than 20 dB gain with its low noise MOSFET circuitry to bring signals up out of the background noise. And it is switchable between 2 antennas and 2 receivers.

The built-in 20 dB attenuator switch prevents receiver overload from nearby stations. Other

features include automatic bypass, delay control, PTT jack, and operates on 9-volt battery, any 9-18 VDC supply, or 117 VAC with optional AC adapter, \$7.95.

MFJ-1040 \$99.95 (+\$3)

MFJ Dual Tunable SSB/CW Filter

Complete control is yours with the 752B filter; adjust the primary filter to peak the signal; notch out interference, and adjust high and lowpass frequencies; adjust the auxiliary filter to notch to 70 dB or peak to 40 Hz (both filter segments tune 300-3000 Hz with bandwidth from 40 Hz to flat). Output is constant and a noise limiter is built in; also has 2 inputs and may be powered by 9-18 VDC from 117 VAC with optional adapter (\$7.95).

MFJ-752B, \$89.95 (+\$2)

MFJ Indoor Active Antenna

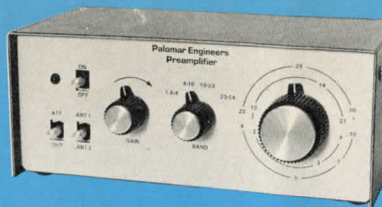
This "world grabber" rivals or exceeds the receiving capability of many outside long wire antennas. Unique circuitry tunes and amplifies to minimize intermod distortion, improve sensitivity and reduce out-of-band noise. Covers 0.3-30 MHz in 5 bands; has controls for ON/OFF BYPASS, TUNE, BAND and GAIN. Telescoping antenna. Uses 9-volt battery, 9-18 VDC, or 117 VAC with optional adapter (\$7.95).

MFJ-1020 \$79.95 (+\$3)

Our Mailing List

Due to the increased cost of maintaining the thousands of names in our new computerized mailing list, only "active" customers will receive future catalogs FREE. Catalogs will be available for 25¢ in USA/Canada, 2 IRC's overseas First Class mail or 5 IRC's for overseas Air Mail.

New SWL Antennas And Preamps

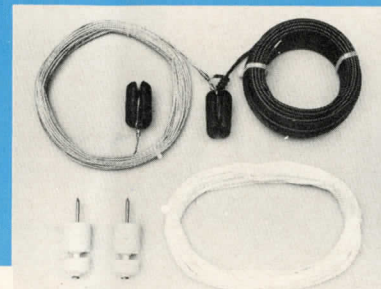


PAL-305 \$77.95 (+\$2.00)

PAL-308 \$87.95 (+\$2.00)



EAVE \$62.95 (+\$3)



ISO-60 \$65.95 (+\$4.00)

INVERT \$19.95 (+\$3)

The GILFER "Eavesdropper" SWL Trap Dipole

The trap dipole is one of the most efficient SWL outdoor antennas. Antenna traps act as electronic insulators on some bands so that the antenna is resonant. On other bands, the traps permit shortening the overall length of the dipole sections. Through careful selection of the element lengths and resonating networks in the traps the "Eavesdropper" can be shortened down to under 43 feet in length (requires at least 45 feet air space about 25 feet above ground).

The "Eavesdropper" resonates in the 11, 13, 16, 19, 25, 31, 41, 49 and 60 meter bands. No antenna tuning is required — the antenna "sees" the SW broadcast band to which the receiver is tuned. Usually, received signal strength is maximum when arriving at right angles to the plane of the antenna.

The special GILFER version of the "Eavesdropper" uses 50 or 75-ohm coax cable to provide a better match between the antenna and your receiver. Coax cable is unaffected by weather conditions. In order to save shipping weight, the antenna is sold without the cable and required PL-259 plug. The cable and plug assembly may be obtained from any ham radio store.

With the encapsulated traps and coax download this is the ideal SWL antenna featuring good performance with minimal space requirements.

EAVE \$62.95 (+\$3)

Palomar Tunable Preamplifiers

If your SW "inhaler" needs a boost, these new Palomar Preamplifiers can make a spectacular improvement. Utilizing a dual-gate MOSFET, either model provides a minimum of 20 dB gain at a noise figure better than many receiver RF stages — and that gain is controllable from the

front panel. Tuning range is from about 1.8-54 MHz divided into 4 bands (1.8-4.0; 4.0-10.0; 10.0-23.0 and 23.0-54.0 MHz). Front panel switches provided for switching between 2 antennas (SO-239 jacks), inserting an extra 20 dB of attenuation and ON/OFF-IN/OUT combo. Secret of the uniform gain performance of these Palomar Preamplifiers is a special balun in the output coupling circuit to your receiver. Choose either 117 VAC operation or 9 VDC transistor battery. Both have LED "on" indicator.

PAL-305 \$77.95 (+\$2) (Battery not included)
PAL-308 \$87.95 (+\$2) (AC)

The Basic Long Wire Antenna

Simplicity is often most effective and that's what this antenna represents — a 50' length of 7-22 stranded 14 gauge copper wire with a 75' length of 7-22 stranded 14 gauge insulated copper lead-in plus 40' of nylon support rope (450# test), 2 strain insulators of ABS plastic, 2 nail-knob ceramic insulators, and a crimp-on hook lug. Good for receiving any frequency and useful with any receiver.

INVERT \$19.95 (+\$3)

Isotron "60" — 60 M Antenna

Is it a plane? A trombone? Or a... no, it's a unique new approach to a compact antenna for use on just the 60-meter Tropical Band.

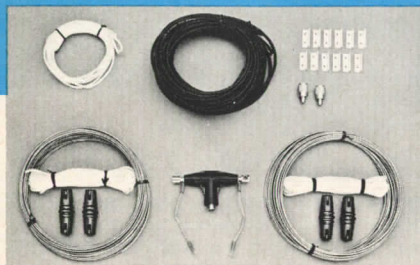
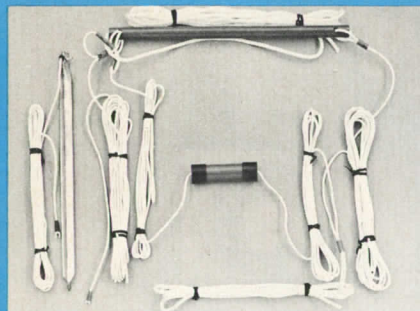
Ideal where space is at a premium, the series resonant Isotron "60" can be TV mast-mounted, attached to a chimney, or just erected inside your home. It's about 4' tall and weighs less than 8 pounds. Its pattern is omni-directional, can be fed with a 50-ohm coax (not supplied) and doesn't need a radial ground system. And outdoors, it will withstand 85 mph winds. Performance-wise, it has the signal pickup of a full half-wave dipole (less a lot of the noise).

ISO-60 \$65.95 (+\$4)

Speed Your Vista/MC Card Order, Phone (201) 391-7887

Antennas And Converters Designed Especially for Shortwave Reception

RAK-1 \$32.00 (+\$1.50)



An Outdoor Antenna In 20'-22' of Space: "RAK Listener-1."

This loaded and folded flattop antenna has much more "capture effect" than seems possible for its size. Its secret is the loading coil and the folded-back section which also forms the lead-in (the 7 meters long lead-in must not be lengthened or shortened or the antenna will not work properly). The antenna must be mounted horizontally about 6 meters high for best operation.

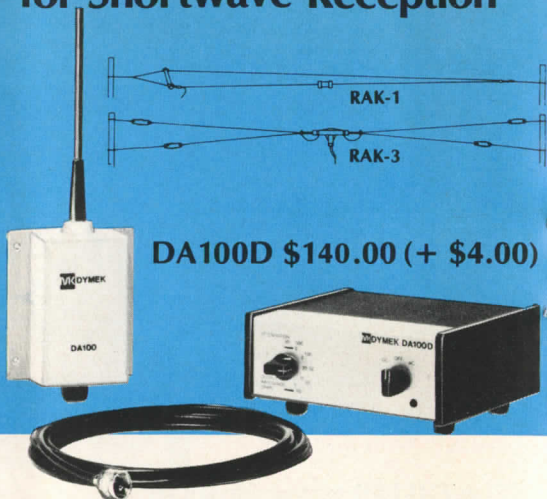
Comes complete with white plastic covered antenna wire, loading coil, red plastic spreader bar, white nylon rope, and ground lead and stake; assembled, ready to install.

RAK-1 \$32.00 (+\$1.50)

At Last, The SWL Antenna That's Been Unavailable Is Here Again: "The Double Dipole RAK-3"

If there is an "ultimate" shortwave antenna, many consider it to be the "double dipole." And yet, it hasn't been available to the SWL for over 20 years. Now RAK brings it back in a really superior package.

As the name implies, the double dipole is two dipoles of different resonances feeding a single coaxial cable. Through careful selection of the lengths of the two dipoles, plus the angular spacing between them, the impedance can be held reasonably constant (50-100 ohms) from 3 to 30 MHz.



RAK-3 \$65.00 (+\$3.00)

The "RAK Listener-3" is a heavy-duty double dipole with an overall air space length of 21 meters (64'). The second dipole is fanned away between 10 and 25 degrees and is 13 meters (42') long. The complete kit, including special aluminum alloy 3mm wire, molded, sealed center insulator, end insulators, 50' of coax cable, connectors, hardware, and white nylon supporting ropes, is designed for permanent mounting and will withstand the worst types of weather. Support poles or trees are required and the top dipole should be 40' above ground.

It's the only one we know of and you'll like the way it works.

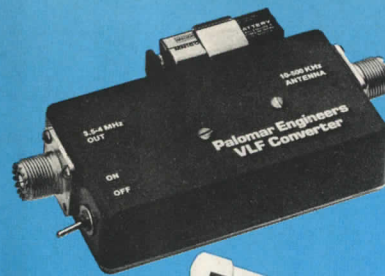
RAK-3 \$65.00 (+\$3)

McKay Dymek Active Antenna

This inconspicuous outdoor antenna makes it possible for you to listen to most of the radio spectrum without requiring a lot of geography.

Just 4'-8" tall, the outdoor DA100D active antenna is weatherproof and has performance that's hard to beat. The indoor interface has controls for matching impedances to any receiver with 50, 100, or 500 ohm input and for selecting attenuation (0, 10, 20 dB). The interface also has a connection for an auxiliary antenna so you may select either active or passive (the AUX antenna is automatically inserted into the receiver input circuit by the On/Off switch). Unit may be powered by 117 or 230 VAC or 12 VDC (power cord provided). Interface connection to receiver is an RCA phono jack (cable supplied). Comes complete with 50' of RG58 coax (length may be extended).

DA100D \$140.00 (+\$4)



VLF-4 \$66.00 (+\$2.00)

PALOMAR/GILFER VLF Converter

Attach this GILFER modified Palomar VLF converter to your receiver and tune in the 10-500 kHz band — including weather broadcasts, beacons, CW traffic, European broadcasters & the 1750-meter no license band. The GILFER mod converts signals down to 4.0-4.5 MHz so that your direct frequency readout receiver is reading the actual frequency less the MHz setting!

Crystal-controlled oscillator, low-noise amplifier, special filtering and double-balanced mixer make this converter stable, extraordinarily sensitive and free from interference from BCB signals. Needs 9V battery.

VLF-4 \$66.00 (+\$2)

Palomar Amplified Loop.

The Palomar Loop Antenna is small enough to use right at your receiving desk and it works fine in most wood frame buildings. The FET Amplifier adds 20 dB of gain to really put some zip to your receiver's sensitivity, and the amplifier housing serves as a base for the plug-in loop antennas.

Convenient size, the amplifier measures 7¼" x 6" x 2¼" and is powered by a standard 9v transistor radio battery, or the 9v converter input especially fitted by GILFER. The loop antenna is 8" long by 1½" in diameter and stands 6" above the amplifier housing.

Plug-in loop antennas are available for 150-550 kHz (VLF band), 550-1600 kHz (broadcast band), 1600-5000 kHz (160/80 Meters), 5-15 MHz (49, 41, 31, 25, 19 Meters), and for WWVB and Omega frequencies.

LA-1 Loop Amplifier \$68.00 (+ \$1.00)
Plug-In Loops ea. \$48.00 (+ \$1.00) specify band.



AD-270 \$129.50 (+\$4.00)
AD-370 \$149.50 (+\$4)

LA-1 Loop Amp. \$68.00 (+ \$1.00)
Plug-In Loops ea. \$48.00 (+ \$1.00)

Improved Datong Indoor Antenna

Datong is the famous manufacturer of quality indoor active antennas. Unlike noise-prone short vertical rods, the new AD-270 (replaces AD-170) is a dipole only 3 meters in length with a special ultra low-noise amplifier suspended between two 1½ meter long flexible wire elements. A 13-foot download permits user arrangement of the dipole near a picture window, across a room ceiling or in the attic crawl space away from interfering electrical noises. Dipole elements may be oriented to maximize signal pickup.

Flat frequency response extends from 200 kHz to over 30 MHz (useful response 100 kHz to 70 MHz). Signal gain of the headend dipole amplifier is constant 6 dB... interface gain is switchable 12 dB. Third-order intermodulation intercept point is 27 dBm with preamp. GILFER supplies 12-VDC converter and interconnecting cable from interface to your receiver — specify desired terminals: spade lugs, RCA phono or PL-259 coax cable.

AD-270 \$129.50 (+\$4)

NEW Datong AD-370 Outdoor Active Antenna

Datong has adapted their renowned AD-270 indoor antenna to be used outdoors. In place of the flexible wire dipole elements, the AD-370 uses 2 stainless steel taper whips attached to a weatherproof 6 dB gain headend amplifier. Mount the AD-370 on any flat surface (horizontally, vertically or on a diagonal). Supplied with 12 VDC converter and 26' of coax cable (may be extended).

AD-370 \$149.50 (+\$4)

Uprate Your Old AD-170 — contact GILFER.

Speed Your Visa/MC Card Order, Phone (201) 391-7887

Headphones — For Easier Listening.

COM-2
\$20.95
(+\$1.50)



HTC-2
\$23.00
(+\$1.50)



YH-55
\$15.00
(+ \$1.50)



C1210
\$28.30
(+ \$1.50)



Superex COM-2 High Impedance.

When it comes to comfort, universality, and value, the Superex COM-2 headphones are hard to beat. These handsome phones are *light weight* — 13 ounces. The cushioned earcups shut out extraneous noise yet fit lightly on the head. And the connecting cord is the longest (7') of any earphones we've seen (usually 5') for more freedom of movement.

The moving coil transducers of the COM-2 phones have 1000 ohms impedance to permit using them on low, medium, or high impedance receivers. And they sound good, too, non-fatiguing with a high cut-off at about 6000 Hz and a low cut-off of 100 Hz that rejects hum noise. Standard ¼" plug.

COM-2 \$20.95 (+ \$1.50)

Telex "Twinsset" — Perfect For Eyeglass Wearers.

Weighing only 1.6 oz., the Twinsset is a favorite of those of us who wear glasses; the dual magnetic transducers rest on your temples away from your ears. Sound is channeled into the ear by an adjustable tube mounted on a ball and socket joint; swing one tube away for listening to conversation without removing the headset. Low impedance (3-20 ohms) with tailored response for maximum intelligibility; includes 60" cable and standard ¼" plug. **HTC-2 \$23.00 (+\$1.50)**

28th Year Serving The SWL

NEW Yaesu YH-55 Headphones.

If you use the Yaesu FRG-7 receiver, you'll want these headphones — they're an exact match for the receiver's impedance. And these new phones are low impedance, so they'll work with most receivers. And they are **comfortable!** Plastic earcup padding and fully adjustable — you can wear them for hours without realizing they're on your head. The sound is great, too. Not too loud, not too soft, not too harsh, not bassy — just-right tonal quality for non-fatiguing listening. And they are a great buy! **YH-55 \$15.00 (+ \$1.50)**

Telex C-1210 Low Impedance.

If you want the best possible low impedance match for your SWL receiver headphone jack, choose the Telex C-1210. Their nominal impedance is 16 ohms, but they match 3.2 to 20 ohm outputs with their dual moving-coil dynamic transducers. Comfortable, too, with the "squared" shape that practically encases your ears in their foam-filled cushions. Also reduces ambient noise penetration and concentrates signal output. Earcushions are removable for cleaning. 5' cord, ¼" plug. **C1210 \$28.30 (+ \$1.50)**

Headband Cushions.

Like TV cameramen wear. Fits all above. Snap on and enjoy real comfort.

HC-1 \$2.25 (+ 50¢)

World Time Clocks

QTR \$49.95
(+ \$2.00)



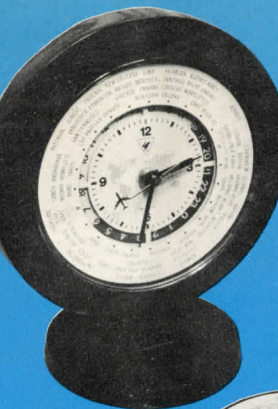
HM-3
\$44.00
(+ \$2.00)

Howard Miller World Time Desk Clock — Elegant Accuracy.

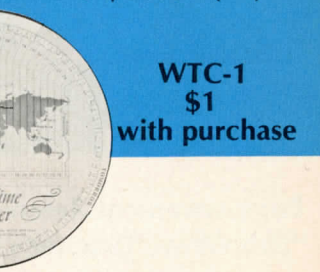
Designed by the famous Howard Miller, this presents an image that can only be termed sophisticated elegance. And its appearance is surpassed only by its accurate information. It gives the time simultaneously and automatically in fifty-three key locations around the world. It has a sweep second hand and a rotating disc which indicates in twenty-four hour time for all indicated locations, and it shows the International Date Line. The movement is battery operated (standard flashlight battery, not supplied). The metal dial is covered by a shatterproof crystal and surrounded by a chrome metal bezel. The case is black with a rosewood grained finish; 8½" h x 6¾" w x 3½" d. **HM-3 \$44.00 (+ \$2.00)**

Yaesu Quartz World Time Clock, Handsome And Functional.

Fascinating to look at, this new electronic clock features a walnut-grained metal case with ebony plastic base (which can be removed for wall mounting if you wish). But most interesting of all is the marvelously detailed face of this precision wonder. Around the white perimeter of the face are names of cities throughout the world. The clock is set so that your city is in the twelve o'clock position, and automatically shows the time in any named city in the world. The outer 24-hour circle of the face shows daytime as white and night as dark blue. The sweep second hand features a jet plane at its tip. Battery powered, the clock will operate for a year on one "C" cell. Great for any SWL post. **QTR \$49.95 (+ \$2.00)**



FE-10 \$30.00 (+\$2.00)



WTC-1
\$1
with purchase

Franklin 24 Hour GMT Clock Eliminates All The Converting.

With much of the world broadcasting, and WWV/WWVH on 24 hour UT time, here's one clock that takes all the mental calculations out of telling your time in the same manner. The Franklin 24-hour clocks are 117 VAC powered (no batteries to fool with), and run for months with high accuracy (they're synchronized with the 60 Hz frequency of the power line). Read it like any other clock, sweep second hand, long hand for minutes, short hand for hours; twelve is noon, thirteen is one o'clock, etc. White face plate. And the 10" clock is readable from 10 to 12 feet. **FE-10 \$30.00 (+ \$2.00)**

Find The Time Anywhere With The World Time Computer . . . Only \$1 With Any Purchase!

This handy little gadget is such a beautifully simple solution to figuring out the time at any place in the world that it is amazing. Two imprinted cardboard wheels are fastened at the middle point with a little tab to shift the top wheel where you want it. The perimeter of the bottom wheel is printed with all the hours of today, yesterday and tomorrow. The top wheel has a world map that is divided into the 24 time zones. Just shift the top wheel to the time today at your location and the correct time and day is automatically shown for anywhere else in the world. Nifty. And you can't beat the price. \$2 value.

WTC-1 \$1 with purchase

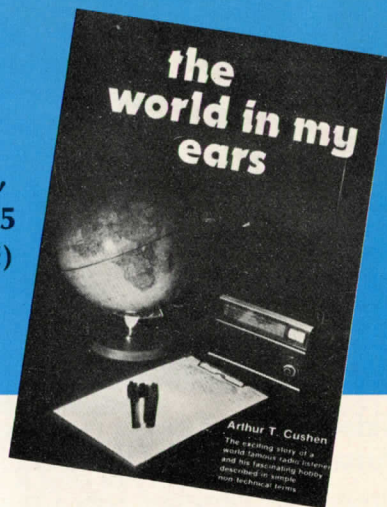
Gift Certificates Available

The Story of Shortwave Listening by The World's Most Famous Listener — Arthur Cushen, M.B.E.

Announcer Henry Hatch of the BBC "World Radio Club" program interviews Arthur Cushen (center) and his wife Ralda.



EARS,
\$11.45
(+ 50¢)



If You Like Shortwave Listening, You'll Want To Read This Fascinating Book — A Combination of Autobiographical, Historical, and Technical Facts. An Exclusive Import From New Zealand by GILFER, "The World In My Ears" Recounts the Author's Work in Shortwave as a Blind Listener and Journalist and Provides Valuable Information For Every Shortwave Hobbyist.

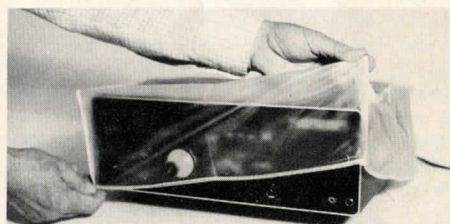
If Arthur Cushen were the author of an unusually well-rounded book on your favorite hobby, shortwave listening (and he is), its contents would include that which appears in this unique book. But since he is also a visually handicapped person whose listening experiences span a period from prior to WWII to present, his book also includes an unusual and courageous personal story.

The first part of Cushen's book deals with his early listening experiences from the beginning in 1935 through the war years to present day work for the BBC etc. Numerous photographs of his classic old receivers add extra interest to this section. Tales of relaying messages from prisoners of war add drama to several chapters. And the onset of blindness and its forcing of a conversion in occupation rounds out part one of Cushen's book.

Part Two is filled with information for all shortwave listeners. Explanations of what the listening hobby is all about. Details on receivers — what to look for when making your purchase — glossary of terms and their explanation. How to set up and operate — time details, recording techniques, etc. Antennas are covered in some detail with illustrations and pictures to help explain. Language difficulties, those used by various stations, etc. are explained in detail.

Propagation, frequency ranges, patterns, reporting, verification — all go into Cushen's chapters for completeness. The 204 page book closes with chapters on the hobby of shortwave listening and international broadcasting — how to get the most out of it.

The historical pictures in this book are absorbing, the personal details interesting, the listening facts complete. Read "The World In My Ears" — and enjoy. **EARS, \$11.45 (+ 50¢)**

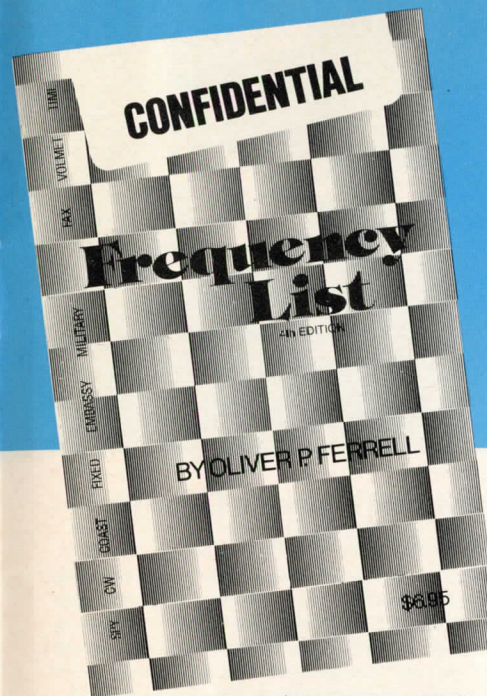


Dust Covers for FRG-7, FRG-7000, FRG-7700, NRD-505/515, R-7 and Panasonic Receivers

Protect your equipment and your investment with these handsome heavy gauge vinyl dust covers. Protects the finish, keeps the knobs and meters dust-free, and keeps the dust out of the inside chassis. Each cover is custom cut to fit, machine stitched, made of embossed vinyl. Good idea that saves money. Specify model of receiver.

CCL-1 \$5.95 (+\$1)

Unique Books That Explain Those Mystery Signals



CFL-4 \$6.45 (+ 50¢)

"Confidential Frequency List" By O.P. Ferrell.

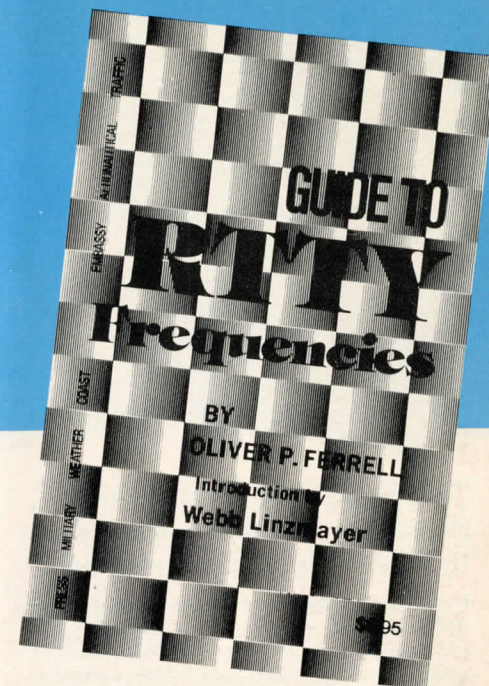
Here's your chance to "come in out of the cold" in your SWL monitoring... a book that lists the little-known world of sub rosa broadcasts the world over!

Compiled by O.P. Ferrell of GILFER, from a vast mix of sources including Federal, International, dozens of volunteer SWLers that monitor between the broadcast bands (and others we can't mention) this fascinating 104-page book not only lists stations by frequency (approx. 4500), but also by call sign (if there is one!), and location. It also indicates the classification of the stations (Fixed, Coastal, Embassy, FAX, Military, Aeronautical, Time Signals, VOLMET, Weather, Press, Feeders, INTERPOL, CW Traffic, etc.), power (if known), and pertinent remarks about hours and schedule.

The book also spells out the internationally agreed upon spectrum devoted to Mobile, Fixed, Broadcasting, etc.

For interesting listening, tune in the fascinating variety broadcasts from 4 to 26 MHz. It might be a sea diaster, an INTERPOL broadcast about drug smugglers, or some of the rarest DX locations you can imagine.

CFL-4 \$6.45 (+ 50¢)



RTT-1 \$8.45 (+ 50¢)

"Guide to RTTY Frequencies" — The World of Radio Teletype Broadcasting.

The material for this interesting new book was developed by years of monitoring RTTY broadcasts by O.P. Ferrell of GILFER and other secret volunteer monitors throughout the world.

Besides listing nearly 2500 RTTY stations the world over, the book also tells how to identify transmissions via RTTY that are in Arabic and also in Cyrillic (Russian). It gives information on how to read weather codes (where they originate and what areas they cover), and it includes a table of "Z" codes used in RTTY broadcasts. Listings will include frequency, call signs, location, power, speed/shift, whether its running normal upright or inverted, news service (when it applies) and schedule. Covers Aeronautical, Weather, Press, Embassy, and many point-to-point nets.

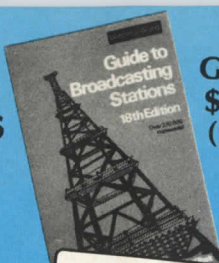
Here are 96 pages of really different and almost impossible to find information on the intriguing RTTY world... to add to your SWL world.

**RTT-1 \$8.95
(+ 50¢)**

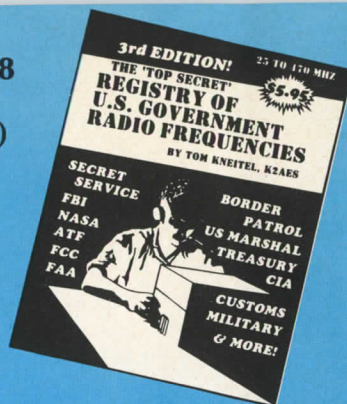
COMBINATION OFFER
Both CON-4 and RTT-1 mailed same day to same address for only \$14.50 (save \$1.40).

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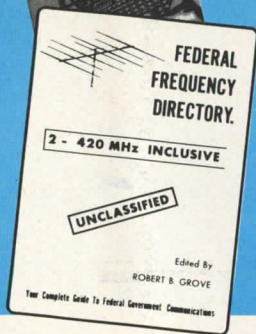
PRO-1 \$7.50 (+ 50¢)



GBS-18
\$7.95
(+ .50)



RUS-3 \$5.45 (+ .50)

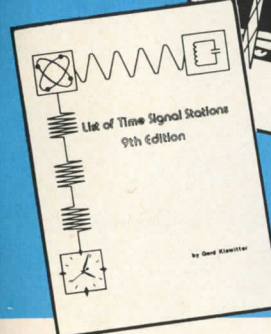


FFD-1 \$14.95 (+ \$1.00)

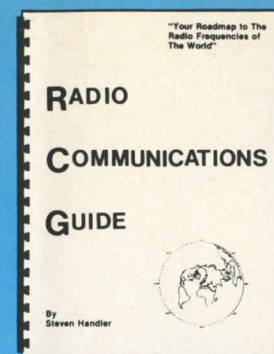
FM-6 \$4.50
(+ .50)



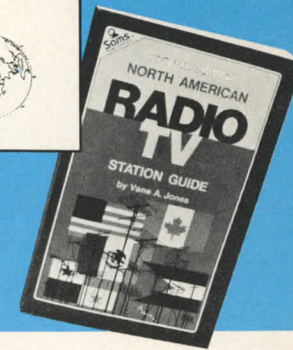
TS-9 \$2.95 (+ .50)



NAR-14 \$7.95 (+ .50)



RCG \$5.95
(+ \$1)



"The Shortwave Propagation Handbook" — Shows You How To Make Your Own Predictions.

Two leading authorities on propagation, George Jacobs, W3ASK, and Theodore J. Cohen, N4XX, have teamed up to produce this definitive work on a fascinating subject which affects all of us who listen to shortwave radio.

For the first time, propagation is explained in simple language that the average reader can understand fully and put to use to produce his own propagation data. For example: a SWL can listen to the 18-minute after-the-hour broadcasts from WWV and, using that information and material from this book, make his own predictions for the next 24 hours.

This is a "must" book for every radio amateur, shortwave listener, and others using the shortwave radio spectrum.

PRO-1 \$7.50 (+ 50¢)

Return of an Old Favorite NEW 18th Edition of GUIDE TO BROADCASTING STATIONS

A practical pocket-size listing of stations broadcasting in the long, medium, shortwave and VHF bands. Sections are carefully cross referenced and arranged in frequency, geographical and alphabetical order. Shows most likely season particular SW stations are on the air. Prepared in cooperation with the BBC Monitoring Service, Caversham Park. Also contains some information on antennas, signal reporting, etc. Just the guide for taking on trips, field days and vacations. Another GILFER exclusive! 230 pages.

GBS-18 \$7.95 (+ .50)

Gift Certificates Available

"Federal Frequency Directory"— from 2-420 MHz.

Edited by Robert B. Grove, this comprehensive directory contains over 100,000 listings of frequencies U.S. Government radio stations as assigned by the Department of Commerce. All listings are unclassified, those agencies with sensitive communications are not listed. Frequencies are sub-categorized by agencies or departments and by geographical areas, all in alpha order. Listings are in kilohertz below 30 MHz and in megahertz above 30 MHz. Listeners will note many uses of non-government frequencies for interface activities (marine, aircraft, law enforcement, etc.) Covers all transmission modes, voice, teletype, telemetry, navigation, tone paging, facsimile, code and others. One thick, complete directory.

FFD-1 \$14.95 (+ \$1)

The "Top Secret" Registry of U.S. Government Radio Frequencies

Here's the answer to those strange broadcasts you've probably heard on your VHF/UHF scanner. They're government communications... from the Armed Forces, FBI, Treasury, CIA, prisons, Secret Service, FCC, Customs, NASA, the UN, Army Engineers, U.S. Marshals, various other federal departments such as Fish & Wildlife, National Parks, Department of Agriculture, and more!

This unusual book lists more than 2,250 frequencies used by U.S. Government Agencies in the 25 to 470 MHz bands. Compiled from years of monitoring by Tom Kneitel, this valuable book not only gives you all the frequencies, but also explains the mystique of the special "protected" bands and frequencies, how to monitor them, equipment tips and techniques, QSLs (when to ask for them, when not to), coded

identifications, a discussion of those strange "split" decimal frequencies, transmission modes, frequency clusters, switching, and hopping. Just the info you need to get the most from your programmable scanner. The book is in an easy-to-use 8½ × 11 size with room for marginal notes of your own and other info.

RUS-3 \$5.45 (+ .50)

List of Time Signal Stations — Latest Edition — Invaluable.

Written and assembled by Gerd Klawitter, this specialized little booklet tells you everything you've wanted to know about time signals and the stations throughout the world which broadcast them. The specialist SWL'er, ham operator, lab worker, etc. will find this information most valuable because it's the only complete compilation of time signal stations, their frequencies, hours of operation, and most important, the particular format through which they broadcast time ticks. Like a road map to understanding what you hear, the book diagrams each of the many different tick arrangements and how to use them. Pictures of many of the transmitting stations are also included.

TS-9 \$2.95 (+ .50)

FM Atlas and Station Directory.

The sixth edition of this handy guide to FM lists over 4,000 stations on the air in the U.S. and Canada. Listings are by geography and frequency. Maps by state and large cities show town names and station call letters and frequencies. Other lists include those stations using translators to extend coverage. Detailed listings show programming type (rock, soul, classical etc.), channel number and class of station, antenna height, polarization, primary and secondary coverage radius, effective power, SCA, network, etc. A handy front section

explains programming and operational trends, how to buy an FM receiver or car radio, how to get rid of ignition noise, etc. If it's FM, it's in this book.

FM-6 \$4.50 (+ .50)

Van Jones "North American Station Guide."

Listing all radio stations, both AM and FM, plus TV stations in USA, Canada, Central America, Mexico, and the West Indies, the latest edition of this handy book has all the details you need. Frequency, call sign, geographical location of more than 11,000 stations, power, time sharing, network affiliation, FM antenna height, etc. Three separate lists arrange stations by frequency, by call sign, and by location. It's a DXers delight for fast identification.

NAR-14 \$7.95 (+ .50)

"Radio Communications Guide" 80 Pages Of Astonishing Variety.

Just scanning the table of contents of this guide shows an incredible variety of HF to UHF block (category by category) listings that promises hours of excitement at your listening post.

Governmental listings include all armed forces, FCC, Dept. of Justice, Dept. of State, U.S. Embassies, NASA, FAA, Dept. of Commerce, INTERPOL plus lists of Canadian governmental stations, USSR stations, Mexican stations, etc. Also included are numerous listings of private networks such as Firestone Tire, AT & T, Red Cross, railroads, ambulance frequencies, and more.

For example, when did you last listen to the U.S.A.F. SAC stations, or their Missile Testing Range, or a particular U.S. Coast Guard cutter. Particular emphasis is on flight communications, both armed forces and private, including LDOC.

Great listening, great guide. RCG \$5.95 (+ \$1)

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Fascinating SWL Recordings



DXC/4

\$6.45 (+\$1)



DXC/1

\$4.95 (+\$1)



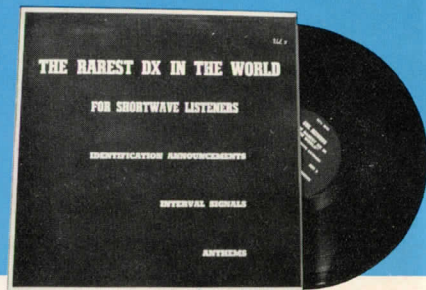
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RARE, \$3.95 (+ \$1.00)



SOS \$4.95 (+ \$1)



to QSL and more. Side two gives actual station identifications for Radio Australia, Berlin, Austria, BBC, Bucharest, Canada, Cyprus, Denmark, Greece, Japan, Korea, Luxembourg, Malta, Moscow, Warsaw, Prague, Saudi Arabia, and many more. A production! **LONG LIVE \$6.95 (+\$1)**

"Sounds Of Shortwave" Cassette

Side One is devoted to what can be heard (the many different types of station emissions), and what can make DXing difficult (interference, both intentional and unintentional). Of particular help may be the sounds of the many strange signals — transmissions that have never been identified as to purpose, sounds of facsimile broadcasts, slow scan television broadcasts by amateur radio ops, radio teletype, code, etc. Other sounds identified are the effects of fading, multi-path interference, the political interference (jamming), and man-made electrical noise, even the Russian "woodpecker" (over the horizon radar).

Side Two helps you choose the right receiver, explains the characteristics to look for (and not to look for) plus antenna hints. **SOS \$4.95 (+ \$1)**

"The Rarest DX In The World"

Even if you weren't an SWL in 1968, you'll appreciate the sound quality of this record. Its separate "cuts" for each country (14 of them) contain all the material that would have helped ID native and English slogans, interval signals, sign-on and sign-off announcements. But more charming to the ear of anyone is the music contained in this record — sign-on themes, national anthems, and typical music selections — from such interesting places as Kathmandu, Bangkok, Suva, Nairobi, Lome', Freetown, Hong Kong, Rarotonga, Wewak, etc. Limited Edition Collector's Item. **RARE, \$3.95 (+ \$1.00)**

Operating Aids



**COPAL \$65.00
(+\$2.50)**

**GL-12 \$19.95
(+ \$3.00)**

**EARTH \$169.00
(+\$10)**



Beautiful 12" Replage Globe.

Whatever country you are listening to, this handsome "Land and Sea" globe makes finding it much easier. First of all, contrasting colors are used for each country, then the topography stands out in raised relief in 10 different true-to-life colors for realism of terrain, and lastly, the globe is accurate and up-to-date with thousands of place names (continents, countries, cities, islands) to aid in location. It even illustrates the flow and direction of warm and cold ocean currents! The globe rests "free" in an attractive translucent blue molded base for easy handling. Height in stand is 14½". Included is a 32 page full color "Story of the Globe" handbook. Put this handsome globe at your listening post to make SWLing just that much more interesting. Great for "visualizing" Great Circle paths to DX stations from your receiver (twist globe upright, insert small pin and use colored thread for GC path).

GL-12 \$19.95 (+ \$3.00)

Copal Digital Clock/Timer

This handsome clock is a 12-hour digital with a 24-hour timer so you can tell time by the conventional method and trigger the alarm and timer to operate once every 24 hours at any given minute. For SWL'ers, this means you can set your Copal clock timer to turn on your receiver and recorder at a prescribed time and off at a prescribed time each day for as many periods as you like (settings can be made from 1 minute up to 23 hours, 59 minutes in intervals as short as 1 minute). And it has all the regular clock functions plus appliance turn-on.

The digital display is the fluorescent tube type in bright blue digits with AM-PM indicator and a flashing display to indicate an error-induced

power failure, plus flashing colon to indicate seconds. Controls include function switch, zero-set seconds button, fast-slow time setting switch, timer selector switch, and an alarm On-Off switch. A lamp indicates outlet function. The outlet is rated at 1200 watts resistive load, 400 watts inductive load. **COPAL \$65.00 (+\$2.50)**

"Planet Earth" — No Other Illuminated Globe Tells So Much

As unique as the earth itself, this fascinating globe displays the utmost in geographical and astronomical information. Adjust the annual scale on the base for the day of the year; set the hour where the appropriate degree of longitude cuts across the time-calibrated equator ring. These are the only adjustments needed.

The internal light indicates the exact location of the night and day sides of the earth plus the three zones of twilight (Civil, Nautical, and Astronomical). Also, with the light on, the globe has an apparent 3-D effect of the physical features of the earth; with light off, the solid colors of each country show the political divisions around the world. And a dot of light shows the subsolar area where the sun's rays cast no shadow at 1200 local time.

Length of day, climatic zones, time zones, local times, date line and gray zone are some of the information provided. For example, you can find what time it is in any given country from a given time in another. You can tell when the sun rises in any city on any day or when it sets.

The wealth of other information provided by "Planet Earth" is contained in a detailed brochure located in the base of the globe. The 13½" diameter globe, measuring 16½" high on its satin-finished base, is ready to use. Looks great on any SWL desk. **EARTH \$169.00 (+\$10)**

Gift Certificates Available

"America Latina En El Aire"

Produced in Finland, this is a comprehensive 60-minute cassette that really does a job in presenting ID's and interval signals of Latin American and Caribbean broadcasters. More than 60 stations in 23 countries — Argentina, Bolivia, Brazil, Chile, Columbia, Ecuador, Falkland Islands, Paraguay, Peru, Uruguay, Venezuela, Belize, Cuba, Dominican Republic, Grenada, Guatemala, Honduras, Mexico, etc. Comes with a Guide Book on LA DX'ing. You won't find all of this in any other cassette we know of.

DXC/4 \$6.45 (+\$1)

"World On the Air" A Cassette of Worldwide Broadcasts

Listen in on the station identifications and/or interval signals of 90 different radio stations. Beginning with an announcement by the Finnish Broadcasting Company and ending with WDAE in St. Petersburg, Florida, this 60-minute cassette recording covers European countries, North and South America, Middle East, Far East, Islands of the Pacific and Africa. Nearly all are in English, but there are many native language broadcasts as well.

DXC/1 \$4.95 (+\$1)

"Long Live Short Wave" — The Murray/Hatch DXing Cassette

50 years of shortwave by BBC's Henry Hatch and the musical talents of Mitch Murray. Produced on the Isle of Man, the first side of this 60-minute cassette — with its theme "Toys for Big Boys" — includes information on frequencies, propagation, radio spectrum, identification of facsimile, CW, RTTY, Slow Scan TV, WVVH, MSF, satellites and information on receivers, antennas, how

Speed Your Vista/MC Card Order, Phone (201) 391-7887

Show Your QSL Cards & Letters In These Display Albums

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SML-2 \$11.95
(+\$1.00)



Display Those Beautiful QSL Cards In These Colorful, Just-Right-Size Albums.

You've worked hard to secure those QSL cards and now you want to show just how remarkably attractive they are. No better way than in these sturdy simulated-leather finish albums.

Each album contains 50 transparent 5" x 7" pockets of soft pliable Polystyrol (additional pockets are available). Each pocket has a flap to seal out dust. And the black backing filler in each of the pockets may be removed so you can display both sides of the cards (most of us display the cards back to back so just the colorful fronts of the cards show).

The albums are available in green, red, blue, and black exteriors (when ordering, please specify your first and second choice of color).

Protect your valuable QSL card collection — put them in these handsome display albums. And don't forget your SWL friends — these make particularly fine gifts for them.

SML-2 \$11.95 (+\$1)

Refills: 10 pages, \$2.00

You Asked For It — A Display Album for Letter-Size QSL/Verifications.

At your request, we added these unique display albums to our line. And they are just right for the peculiar problems of displaying those varying sizes of QSL cards and letters of verification in an attractive manner.

The size of these handsome albums is 8½" x 12". And inside are crystal-clear pages of durable vinyl. Twenty pages in all, in a mix of sizes. Some pages will hold three QSL cards of the standard size, some pages will hold two of the over-size cards commonly used, and other pages will hold letters up to 7" x 11" in size. No backing sheets are required, and both sides of the letters or cards can be displayed. Extra pages are available.

These sturdy binders have 23 chrome steel rings to hold the pages, and are available in either black or blue (specify when ordering).

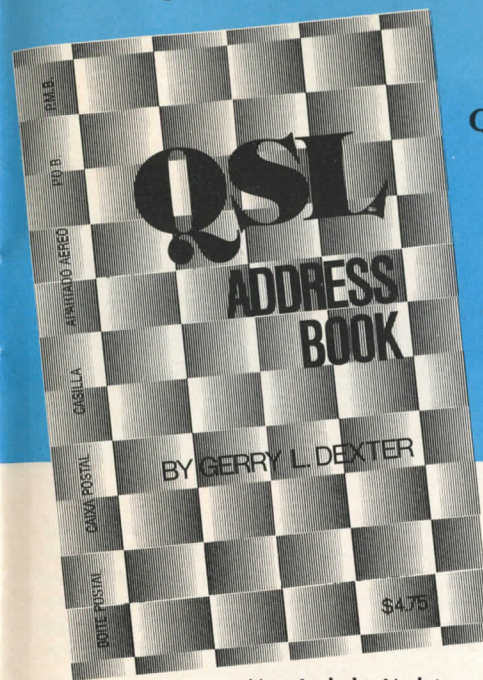
NA-23 \$15.95 (+\$1)

Refills: 10 pages, \$5.50

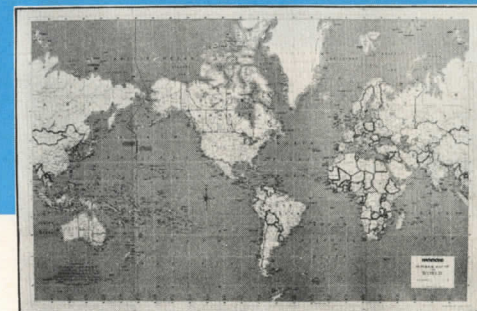
(Specify one-pocket or two-pocket form)

To Improve Your QSL Count.

QSL-3 \$4.25 (+ 50¢)



Now Includes Updater
Details on 1980 DX Stations



MAP-25 \$1.75 (+ 50¢)

Better Than Ever — Easier To Use, The New GILFER "QSL Address Book."

- Lists over 800 Shortwave Stations
- Complete Addresses and Names of Verifiers
- Improved Grading System for Easier Reading

When it comes to improving your QSL response, there's no better way to find out how to do it than this new book from GILFER by Gerry Dexter.

Improved and simplified from the sell-out previous edition, this new 96-page book gives you practical information gained first-hand by the author (what really happens — eliminating much of the hearsay and guesswork).

New text prepared by the author covers all of the ground rules for report writing, mailing, following up, and reply times. Illustrations show examples of actual verification letters and QSL cards.

The main body of the book is a tabulation by country of exact addresses and the names of the verification signers. A new simplified "grading" system quickly tells you what your chances are of getting a verification on your first try.

Another new feature in this edition are the "Heard" and "Verified" columns — places where you can record the dates you heard one of

the 840 listed stations and the dates that the QSLs arrived.

Author Dexter is one of the top country hunters in the SWL world. He has verified 1050 shortwave broadcast stations in 219 countries and only one country has been heard and remains unverified. His QSL percentage is figured at about 85%.

To put your QSL seeking on a systematized basis that gives your efforts the greatest chance of success, add the new QSL ADDRESS BOOK to your library. You can get up in the top ranks too. Of the 182 countries detailed in the tabulation, only one country never issued any QSL's nor verified any reception reports before it disappeared from the maps — Kampuchea.

QSL-3 \$4.25 (+ 50¢)

Hammond Superior World Map.

This handsome 25 x 38 inch map is ideal for the SWL. It is printed on durable heavy paper with a non-reflecting surface for easy viewing, and the countries are bordered, not obscured, in color for easy identification of cities, states, provinces, etc. (cities which are capitals are indicated by a circled star). Perimeter information of the map shows longitude and latitude plus time zones. Great value, too.

MAP-25, \$1.75 (+50¢)

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Books and Forms for Easier Listening

ANT-2
\$6.95
(+ 50¢)

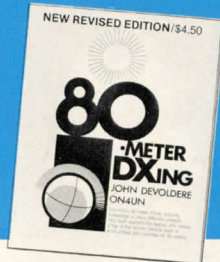
ANTENNA HANDBOOK

Includes "Truth Tables" for various beam antennas. Dimensions for all beams.
"Grid, Coax and L-match antennas: vertical, horizontal and "rocker" antennas.
How to locate your radio location, how DX entered "log" - ground line and more.
All about towers and antennas near information, what the SWL meter tells you

AUST \$11.00
(+ \$0.50)



LS-1
\$2.25
(+ 50¢)



DX-80
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(+ 50¢)

(The Radio Amateur) Antenna Handbook — What the SWLer Needs To Know.

For the serious SWL, the way to achieving the right antenna is in this book. Although written for amateur radio ops, this new book gives enormous detail on all types of antennas, (beam, long wire, dipoles, and much more) without tedious math but with a lot of practical ideas and construction plans, tables etc. Best book we've seen on this subject.

ANT-2 \$6.95 (+ 50¢)

Don't Trust To Memory — GILFER Log and Record Sheets.

Use a professional logging and record system to identify new stations, track the activities of those "must-hear" stations, and compare your DX with published lists. Easy-on-the-eyes green sheets provide optimum space for each station entry (date, time, call or slogan, freq., program, SINPO, etc.), plus space for QSL info. Sixty sheets.

LS-1 \$2.25 (+ 50¢) LS-2 (2 pads) \$4.50 (+ \$1)

Australian Utility Radio Handbook — 3rd Edition

Published by the Australian Radio DX Club, this unique book is the result of extensive research and investigation by ARDXC members. It provides an extraordinary amount of detailed information about Australian utility stations previously not available in any publication.

Aeronautical stations listings include domestic and international ground-to-air and ground-to-ground frequencies, aeromedical frequencies, VOLMET stations, beacons, ATIS, aircraft of Qantas, East-West Airlines, TransAustralia and more.

Maritime station listings include small ships RT frequencies, Coast Stations of the Overseas Telecommunications Commission (8 different types of listings), fishermen private radio stations, voluntary sea rescue organizations, pleasure clubs (yacht club, sailing clubs, etc.), marine direction finding, navigation stations, beacons, etc.

The longest listings are for fixed stations for the outpost radio service (schools, Flying Doctors, etc.), overseas communications, Telecom Australia, Forestry Commission, fire brigades, police, Antarctica Research Expedition, overseas radio telephone, weather stations, hydroelectric commission, Water Resources Commission, aboriginal and Islander Affairs Department, and more.

You won't find this in any other book.

AUST \$11.00 (+\$0.50)

"80-Meter DXing" — Propagation and Antennas.

Written for hams, but if you are after the incredible variety of listening in the 60 and 90 meter bands, you'll need to know how a signal gets where it's going (propagation), what "black-outs" are (magnetic and ionospheric disturbances), and what the "gray line" phenomenon is. And you'll learn what makes a good antenna (resonance).

DX-80 \$4.50 (+ 50¢)

Special Publications List

GILFER maintains a stock of highly specialized Frequency Lists and Tables not usually available elsewhere in North America. These publications include Lists of Special RTTY and CW Alphabets, Meteor Codes, Air Codes, Call signs, Fixed Station Frequencies, ITU Publications, etc. An up-to-date inventory sheet is available for 25¢.

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(important for UPS shipment)

City _____

State and Zip Code _____

Country (if not USA) _____

Code #	Description	Price & Shipping
Item		
Item		
Item		
Item		
Item		
Item		

(Prices subject to change without notice)

- Check/money order
NO CANADIAN CHECKS — Send International Money Order or American Bank Money Order
- Credit Card

Total of merchandise & shipping _____

New Jersey Residents add 5% sales tax _____

TOTAL AMOUNT _____

OUR POLICIES

All equipment is warranted for a minimum of 90 days, longer when stated. Products are guaranteed to fulfill specifications as listed in our catalog. When shipping costs equal \$1.50 or more, we will ship via United Parcel Service (surface) whenever possible. Canadians should add \$2.00 handling fee for each piece of equipment ordered. COD orders, 10% down (no COD telephone orders).



Credit card orders:
Minimum charge: \$10.00

Credit card # _____

Expiration date: _____

Signature: _____

SAMPLE COSTS OF SHIPPING RECEIVERS BY UNITED PARCEL SERVICE (insured)

SURFACE	SONY 2001	FRG-7	RF-2900	RF-4900	FRG-7700	SONY 6800	NRD-505	R-7	NRD-515 w/MEM
New York City, NY	2.41	3.83	2.42	4.42	4.38	3.96	9.16	6.19	7.71
Cleveland, OH	2.82	5.13	2.99	5.96	5.41	4.86	10.89	7.31	9.57
Miami, FL	3.42	7.15	3.87	8.33	6.99	6.27	13.65	9.09	12.48
Los Angeles, CA (air)	9.11	25.55	11.94	29.90	21.41	19.11	41.59	31.38	38.82

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NEW THIS ISSUE



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"Intelligent" Receiver with
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ANOTHER GILFER-USA IMPORT

See it on page 6 & 7.

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