

1979 CQ World-Wide DX Contest - CW Results

BY BOB COX*, K3EST, AND LARRY BROCKMAN†, N6AR

After checking approximately 500,000 QSO's, the 1979 CQ World-Wide CW DX Contest enters the record books as the most successful ever! It was clearly the year of the high frequency bands. Ten new 28 and 21 MHz records were set. For those with enough energy to try the low bands, rewards were found in surprisingly good band openings. For all entrants increased operating skills were needed to cope with the onslaught of QSO's.

The World Champion Single Operator score was EA8AK operated by OH6DX. Erki averaged 80 QSO's per hour for the 48 hour period. He was followed by 9Y4VT operated by N6AA. Third and fourth places go to UF6DZ and OK2RZ.

The Multi-Single category generated quite a race. NP4A barely edged out R6F for the new world record. Both stations broke the old world record by quite a margin.

The battle of the Multi-Multi giants resulted in PJ2CC setting a new world record. They were followed closely by 9Y4W. PJ2CC was sponsored by the Potomac Valley Radio Club, while 9Y4W was sponsored by the Frankford Radio Club.

The top USA All Band score was K1AR. John was happy with U0Y calling him on 40 meters! Look at the battle for second place in the US. Four stations within 53,000 of one another. K1VTM operated by K1JX edged out W1ZM, W1CF and N2LT.

The USA Multi-Single effort was lead

by K5RC's pace-setting record of 4 million points. The antenna farm of N4AR had to settle for a second place finish.

The USA Multi-Multi effort was headlined by N2AA. All six top finishers beat the old CW record which had stood since 1970! K8LX and K3WW finished second and third, respectively.

The following stations set new records: LU8DQ: World 28 MHz; FR0MM: Africa 28 MHz; UH8EAA: Asia 17 MHz; JH3LPT: Asia 21 MHz; 4Z4KX: Asia 28 MHz; G3SZA: Europe 1.8 MHz; YU2CDS: Europe 7 MHz; SM5GMG: Europe 21 MHz; DK3GI: Europe 28 MHz; VP2MEE: N. America 21 MHz; KV4FZ: N. America 28 MHz; KH6XX: Oceania 28 MHz; UF6DZ: Asia Single Operator All Band; OK2RZ: Europe Single Operator All Band. M.O.S.T.: Africa, EA9EU; Asia, R6F; Europe, YU7BCD; N. America, NP4A. M.O.M.T.: Europe, SK2KW; N. America, N2AA; S. America, PJ2CC.

The new QRP category continues to grow. An excellent effort by Chris, G4BUE, brings him this year's QRPP Trophy. The top USA entry was WA4LOF with W5YZ very close behind.

Something To Think About

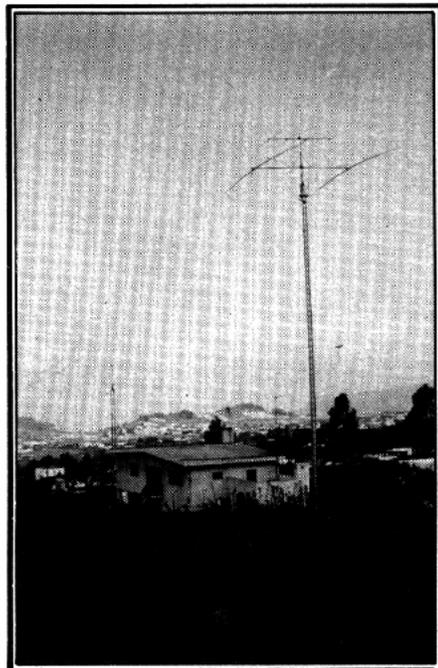
Each year the committee receives complaints concerning unsportsmanlike activity by a few operators. Complaints based on actual log data are verified by the committee. However, other types of violations *not* based on log data, such as excessive power, unsportsmanlike operating techniques, violations of the single operator category, are very difficult to substantiate.

Contesting, by its very nature, relies heavily on the honor and word of the participants. When the statement you

sign on the summary sheet becomes meaningless, it only serves to diminish the satisfaction of the achievement.

The following people devoted much time and effort to verifying the results: Frank Anzalone, W1WY; Terry Baxter, N6CW; John Battin, K9DX; Yuri Blarovich, VE3BMV; Lenny Chertok, W3GRF; Dave Donnelly, K2SS; Lew Jenkins, N6VV; Fred Morris, AD6C; Glenn Rattmann, K6NA; Jim Sullivan, W7EJ; Reg Toumi, N6SV; Gene Walsh, N2AA; Gene Zimmerman, W3ZZ; and Doug Zwiebel, WB2VYA.

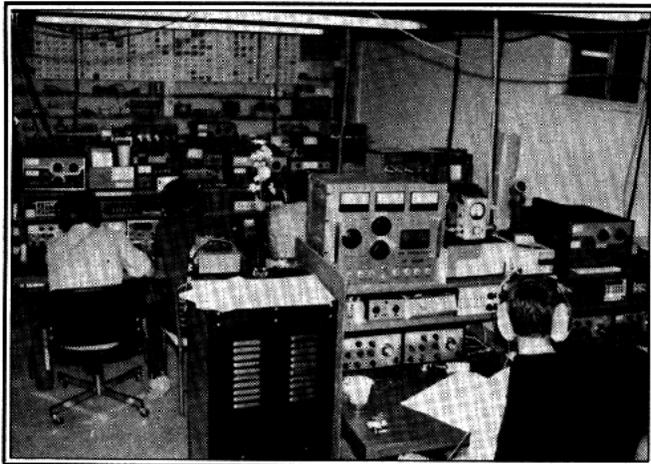
Congratulations to all the winners!
73, Bob, K3EST, and Larry, N6AR



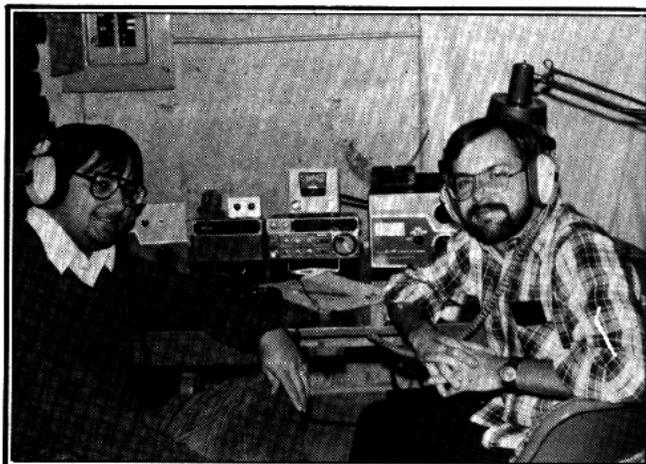
EA8AK operated by OH6DX. Top Single Operator score.

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Quite a setup at N9MM.



WB9BCR and WB9CEJ.

C.W. TROPHY WINNERS AND DONORS

Single-Operator, All Band

World

EA8AK (Opr. Erkki J. Korhonen, OH6DX)
Donor: W2AB Memorial (K4FW)

U.S.A.

John Dorr, K1AR
Donor: Frankford Radio Club

Canada

Saull Arosankari, VE1AIH
Donor: Canadian DX Association

Caribbean/Central America

Jose M. Lozano Lozano, XE2MX
Donor: Mort Grotenstein, N6JT

Europe

Jiri Kral, OK2RZ
Donor: W3AU Operators

Africa

Ted Collins, ZD8TC
Donor: Gordon Marshall, W6RR

Asia

Valentin V. Makhalov, UF6DZ
Donor: JA CQ Magazine

Oceania

Willmer Hew, KH6NO
Donor: Maui Amateur Radio Club

Japan

Saty Nakamura, JE1JKL
Donor: Palm Garden Contest Club

South America (21 MHz)

Elcio Neves, PY3CFD
Donor: Rafael DeLeon, CX3BR

Oceania 21 MHz

Haryono S., YB0GF
Donor: Pacific Radio Amateur Transmitting Society

Multi-Operator Single Transmitter

World

NP4A (Oprs. NP4A, K2TR, K3UA, KP4EHP,
N2NT)

Donor: Anthony Susen, W3AOH

Multi-Operator Multi-Transmitter

World

PJ2CC (Oprs. K3EST, K3KU, K4BAI, K4VX,
PJ2FR, PJ9EE, W1BIH, W1GNC, WB4SGV,
YU3EY)

Donor: Hazard Reeves, K2GL

U.S.A.

K8LX (Oprs. K8LX, K8GM, K8MD, N8EA,
W8KPL, W8TA, W8WA, WA8TBQ,
WA8YVR, WA8ZDT, WN8PEE, WD9HFW)
Donor: Rush Drake, W7RM

Contest Expeditions

World Single Operator

3B8RS (Opr. Walter Skudlarek, DJ6QT)

Donor: CQ Magazine

World Multi-Operator

U0Y (Oprs. UV0BB, UA0BW, UA0ABB,
UA0ACQ, UA0AG, UA0AAK)

Donor: Bill Schneider, K2TT

Top World Single Operator Combined Phone/CW

9Y4VT (Opr. Richard Norton, N6AA)

Donor: John Knight, W6YY

World Top QRP

Christopher J. Page, G4BUE

Donor: Gene Walsh, N2AA

Club Trophies

World High

Frankford Radio Club, 173,821,640

Donor: CQ Magazine

Most Improved Radio Club

Mad River Radio Club, 24,119,894

Donor: Southeastern DX Club

Single Operator Single Band

World (28 MHz)

William C. Poellnitz, FR0MM
Donor: W2JT Memorial (No. Jersey DX Assn.)

World 3.5 MHz

Alvaro Robledo, EA2OP
Donor: Fred Capossela, K6SSS

U.S.A. (21 MHz)

Peter Chamalian, W1RM
Donor: No. Illinois DX Association

Canada (21 MHz)

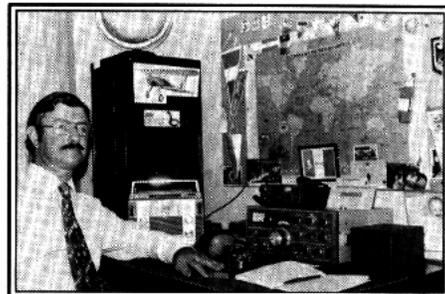
Yuri Blarovich, VE3BMV
Donor: Canadian Amateur Radio Federation

Caribbean/Central America (28 MHz)

Tim Winger, C6ACY
Donor: DX Club of Puerto Rico

Europe 14 MHz

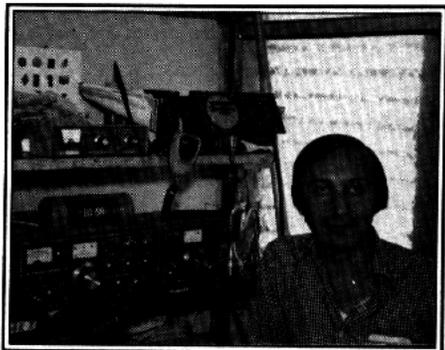
Drago Turin, Jr., YU3ZV
Donor: G2LB Memorial from his friends



Neville, ZS6BSQ.



K3YL at the key.



Mark, 4Z4KX.

BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSO's/Zones/Countries on each band.

WORLD TOP SINGLE OPERATOR—ALL BAND

Station	160	80	40	20	15	10
E8AK	19/4/11	132/11/33	310/13/44	917/23/51	1037/22/51	1410/22/65
9Y4VT	34/5/8	167/13/34	293/17/51	915/27/63	857/28/66	886/27/64
UF6DZ	34/8/20	285/13/32	519/13/44	954/27/60	560/16/42	1188/22/57
OK2RZ	17/3/17	216/14/49	157/17/55	764/35/87	412/29/81	897/30/78
K1AR	11/6/9	147/14/47	447/27/65	485/30/71	483/28/70	415/25/64
UA1DZ	64/6/20	119/16/48	268/20/60	660/33/78	700/26/64	363/32/81
OZ1LO		477/16/50	348/21/54	706/26/59	336/22/45	906/25/60
K1VMT	16/7/12	131/18/51	310/18/58	473/25/71	527/27/61	406/23/66
W1ZM	22/8/16	116/16/52	260/23/58	426/29/74	467/24/71	439/26/75
UV9AX	89/8/25	185/12/38	276/19/50	594/25/65	416/26/62	472/26/65

WORLD TOP MULTI-OPERATOR SINGLE TRANSMITTER

NP4A	76/7/19	238/16/58	922/22/66	1307/35/89	1796/32/79	1761/28/74
R6F	22/6/21	500/23/60	640/22/66	1253/36/91	1003/30/84	1547/31/86
UK9AAN	61/8/22	425/23/57	517/29/76	1273/38/96	670/34/80	756/34/96
HH2MC	13/5/8	280/15/40	449/22/57	1974/31/86	1142/31/74	921/26/74
VP2SX	3/2/2	190/11/32	953/19/57	847/22/63	1174/29/69	1765/24/73
E9EU	21/5/17	237/12/48	408/15/46	1141/29/69	884/24/60	961/21/63

WORLD TOP MULTI-OPERATOR MULTI-TRANSMITTER

PJ2CC	81/6/10	704/18/53	1768/25/76	3442/33/95	3244/38/100	2447/34/88
9Y4W	133/8/15	717/18/55	1343/23/71	3108/34/92	2514/34/81	2565/31/81
N2AA	29/6/14	324/24/64	741/29/82	1394/40/116	1237/36/96	952/32/89
SK2KW		516/20/58	844/28/72	2192/36/91	1713/36/91	1151/30/82
DL0PG	140/7/28	727/15/51	932/25/75	1245/33/87	1154/33/80	1280/29/88
KBLX	33/8/14	99/19/45	610/32/78	1353/38/102	1178/33/85	748/32/80

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
K1AR	11/6/9	147/14/47	447/27/65	485/30/71	483/28/70	415/25/64
K1VMT	16/7/12	131/18/51	310/18/58	473/25/71	527/27/61	406/23/66
W1ZM	22/8/16	116/16/52	260/23/58	426/29/74	467/24/71	439/26/75
W1CF	12/5/8	140/18/56	237/19/56	627/32/75	347/26/68	425/25/69
N2LT	18/7/9	85/16/41	263/19/61	584/31/76	343/27/72	450/27/76
W3GRF	5/4/4	75/11/37	282/20/56	378/29/74	479/23/67	427/29/80
K3LR	19/6/11	72/16/41	190/24/53	342/27/72	402/29/64	545/28/73
N3AD	9/5/5	64/11/36	266/19/53	516/29/75	319/28/63	485/25/71
K9DX	18/8/12	64/17/38	155/24/59	506/26/73	438/26/66	381/25/66
N6RO	6/5/3	178/19/32	403/28/50	326/26/61	387/27/57	408/26/63

USA TOP MULTI-OPERATOR SINGLE-TRANSMITTER

K5RC	10/7/9	60/18/39	328/30/79	773/38/100	728/34/92	658/33/85
N4AR	11/7/11	80/21/58	187/29/71	620/36/93	480/32/89	614/32/85
W3BGN	13/7/10	113/16/47	209/21/59	739/33/84	479/33/92	520/30/75
N1AC	5/3/4	36/10/26	81/16/40	649/28/71	622/25/63	538/24/63
K2BK		57/14/35	211/20/57	558/36/93	345/29/76	342/26/71
N0NO	6/4/4	31/13/25	167/26/56	696/33/82	455/29/65	255/27/66

USA TOP MULTI-OPERATOR MULTI TRANSMITTER

N2AA	29/6/14	324/24/64	741/29/82	1394/40/116	1237/36/96	952/32/89
K8LX	33/8/14	99/19/45	610/32/78	1353/38/102	1178/33/85	758/32/80
K3WW	42/9/18	204/21/61	649/26/74	1113/35/98	1039/39/98	748/30/81
N9MM	84/11/21	148/25/56	391/30/78	1133/35/98	1039/39/98	748/30/81
K0RF	47/7/9	217/27/49	536/29/69	987/37/92	1096/34/80	785/32/79
W3FA	46/8/16	212/21/57	504/25/77	1158/33/98	767/33/88	657/30/86

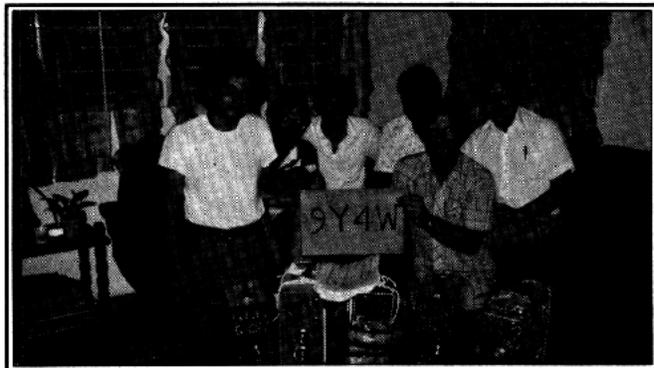
Savuschin, Kojezo. **UK2AAB:** Kosarev, Krushinsky, Pilosyn. **UK2AAG:** UC2-009-105, UC2-009-490, UC2-009-562. **UK2AAR:** Digilewich, Karajitchev, Antsirowich. **UK2AAX:** UC2DS, UC2-009-522, UC2-009-523. **UK2BAB:** Saulis, Balsys, Kasparaitis. **UK2BAF:** Vasiliasukas, Stankus, Venckus. **UK2BAS:** UP2PAJ, UP2BBC, UP2GF, UP2-038-609, UP2-038-628. **UK2BAT:** UP2-038-948, UP2-038-898. **UK2BBB:** UP2BAV, UP2BAS, UP2MB, UP2-038-727, UP2PX, UP2BAW, UP2-038-517. **UK2BBE:** UP2-038-938, UP2-038-919, UP2-038-917, UP2-038-918. **UK2BBF:** UP2BAI, UP2BBX, UP2-038-787, UP2-038-788. **UK2BCC:** UP2-038-346, UP2-038-728, UP2BDW. **UK2BCG:** UP2BFM, UP2-038-1618, UP2-038-1617. **UK2GAB:** UQ2GID, UQ2-037-157. **UK2GDZ:** UQ2-037-1016, UQ2-037-27, UQ2-037-168, UQ2-037-169, UQ2GAE. **UK2PAD:** UP2BEG, UP2BGV, UP2BEY, UP2BFN. **UK2PAO:** UP2BHN, UP2-038-574. **UK2PAP:** UP2BCI, UP2PAC, UP2OX, UP2BFB, UP2BEB. **UK2PAQ:** Lautusonis, Giniunas, Melstas. **UK2PAT:** UP2BCO, UP2BCW, Antanas. **UK2PCR:** UP2-038-469, UP2BDM, UP2BDG. **UK2RDX:** UR2RRJ, UR2REZ, UR2REC, UR2REE, Mart, Nigul, Andrus. **UK3ABF:** Cherkezov. **UK3DAU:** Samojlov, Zajcev, Chibsov. **UK3UAA:** UA3UBN, UA3UAY, UA3UCD, UA3UAC. **UK3WAC:** Fomenco, Salov. **UK3XAB:** UA3XAC, RA3XBS, UA3-127-200, UA3-127-204, UA3-127-216, UA3-127-803. **UK4CAA:** Eremenko, Gladkov, Kudryashov. **UK4LAA:** Vershinin, Balakshin. **UK4WAB:** Baranov, Gabitov, Krylov, Pankov, Saifullin, Sakerin. **UK4WAR:** UA4WAF, UA4WAM, UA4WAX, UA4WBJ, UA4WXP, UA4-095-176, UA4-095-300, UA4-095-381. **UK5HAB:** UB5-071-73, UB5HEW. **UK5IAZ:** UB5-073-342, UB5-073-202, UT5AA, UB5-073-1618, UB5-073-239, UB5-073-3157. **UK5IEG:** Zatyran, Mistchenko, Zacheplio. **UK5LAK:** UB5LJC, Bolotov, UB5LJW, UB5LKW. **UK5LAN:** UY5DV, UB5LBI, UB5LEE. **UK5MRE:** Dyblja, Mazkov, Kudelin. **UK5MBQ:** UB5MGC, UB5-059-073, UB5-059-075. **UK5MDI:** UB5MBM, UB5MJS, UB5-059-111, UB5-059-94, UB5-059-92. **UK5QAA:** Shimko, Golikov, Sorzysky, Kuzminov, Dolinsky, Salata. **UK5UDX:** UA4LAR, UB5-065-494. **UK6DAJ:** Hachaturjan, Golubev, Sadchikov. **UK6DAU:** Ivanov, UD6DII, UD6DII. **UK6LAZ:** UA6LHK, UB5-060-850, UA6-101-252, UB5-060-901. **UK7CAK:** Podskresk, Shewcov, Scherbakov. **UK7GAA:** UL7-018-6, UL7-018-99, UL7-018-136. **UK7NAQ:** UL7NAC, UL7NCG, UL7NHA. **UK8AA:** UJ8-053-495, UJ8-053-671, UJ8-053-559. **UK8HAA:** Matshenko, Gubenko, Markov, Stepanov, Liagin, Osetinski. **UK8JAA:** UJ8JCL, UJ8JCT, UJ8JCR, UJ8JCC. **UK9AAN:** UA9AN, UA9ACZ, UA9AIZ, UA9AJD. **UK9ADY:** UA9ADH, UA9AFZ, UA9ADI, UA9AAX, UA9AT. **UK9CBD:** UA9CBM, UA9CT, UW9DVI, UW9DO, UA9CDU, UA9CNU. **UK9CAA:** Kodochigov, Sokolov, Dyachuk. **UK9HAC:** Rekunov, Matulian, Soloviev, Shugailov, Shumkin, Bazenov. **UK9LAA:** Kurash, Kozlov, Klokov, Gorshunov, Karpjuk. **UK9OAA:** Pashkov, Dolganov, Pugachev, Dubinin. **UK9CAA:** Gorelik, Starsev, Lankin. **UK9FAD:** UW9FM, UW9FZ, UA9FBE, UA9-153-1, UA9-153-79, UA9FBX. **UK9LAD:** UA9-107-398, UA9-107-324, UA9LBZ. **UK9SAW:** UA9SKE, UA9-124-303, UA9-124-293. **UK9ZAB:** UA9ZBF, UA9ZBV. **UK9ZAF:** Pchelin, Rysanov, Sopov. **UP2PCR:** UP2PAV, UP2BBT, UP2BCR,

UP2BCT, UP2BBX, UP2BDF, UP2BFL, UP2-038-794, UP2-038-1524, RP2BET. **VE3OCU:** VE2DZE, VE3CXL, VE3KKU, VE3VC, VE4OY, VE7AV & VE7AXH, VE7ENF, VE7ENI. **VE8NI** & M. Assad. **VP2SX:** K1TO, K1XA, VP2SQ. **VP9DX:** VP9BY, VP9DL, VP9HP, VP9IV. **W2RQ** & **W2SQ**. **W2SUA** & **A2Z**, **N2CQ**. **W2UI** & **N3KR**. **W2YX** & **WB2SJJ**. **W3BGN** & **N3DA**. **W3EVV** + **NET**. **W3GG** & **N3AM**. **W3BFR**. **W3GNG** + **NET**. **W3NX** & **AD3V**. **W3NZ** & **N3AMK**. **W5VX** & **K5ISO**, **W5MCO**, **K5BDS**. **W6BIP** & **WA6DJI**, **AA6GM**. **W6GO** + **NET**. **W6NKR** & **K3VA**. **W6UA** & **W6UM**. **W6RW** & **W6JG**, **WB9VJ**, **W6EJ** & **WB0PYD**, **N0BGI**. **W6SA** & **WA0VKF**. **W6SD** & **W6GKF**. **N0AIT**, **WA0UFS**, **WB0PJB**, **W0SMV**, **N0ACL**, **WB0YMR**. **WA4FKK** & **W3DGI**. **WB9BCR** & **WB9CEJ**. **Y03KWF:** Y03CFF, Y03AAJ. **Y06KAF:** Y06AW, Y06AWR. **Y06KED:** Y06UG, Y06BTY. **Y07KAJ:** Y07AHR, Y07AOT. **Y08KAN/P:** Y08ME, Y08QH, Y08AXP. **YU1DKL:** Club. **YU2EZA:** Ivo, Neno, Matko. **YU7AJD:** YU7ORS, YU7RS-668, YU7RS-688, Jordan, Dule. **YU7BDC:** YU7OFT, YU7NQW, YU7ODO, YU7ODS, YU7OQI, YU7OQZ, YU7ORR, YU7PEJ, YU7QBC. **YU7GST:** Club. **YU7JDE:** Karoly, Iml, Ivan, Bandi, Josef, Fero, Tibi, Elvira, Kalman, Robert, Laci, Tibi, Charlie. **IMRE/7VR**, **TEO/7BCU**, **LI**. **YX5A:** YV5AAS, YV5AAZ, YV5ANT, YV5AW, YV5BNR. **4N4Y:** Goran, Dubo, Ivo, Emil, Lubo, Nedim, Ilfo, Braco, YU4FRS.

STATION OPERATORS

Multi-Operator Multi-Transmitter

DL0KF: DJ8FR, DK8LE, DJ5AZ, DF8LI, DF6LH, DK8LD, DJ7SW, DF5LO, DL2ZT, DL2NF, DJ6TN, DJ4FZ, DJ4SO, DF3LZ, DF3LP, DK6LG, DJ5UZ, DF9LF, DL0PG, DK3BJ, DK5JI, DJ6TK, DF1DN, DJ9IC, DK9DX, DK5PV, DK9JL, DF1QQ, DK2JS, DK5HH, DK6BO, DJ7MI. **J1YHA:** JK1LE, JK1UNO, JE3MLS, JA5WJO, JF1KFU, JF1CJO. **J1YXP:** JI1HG, JK1OUQ, JK1EPI, JE3UC, JH4OWG, JA5IEP, JA5OWP, JH4QLX, JR6NJD, JA8RNM, JA0XUF. **JA2YEF:** JR2YDA, JH2TBS, JF2GNY, JR2TWA, JH2YOR, JR2LDM, JE2ATB, JE2LDO, JR2PVI, JR2TPD, JF3THB, JA9QCQ, JA0UEX, JF2KLL, JR2UWZ, JE2KIH, JE2RDI, JE2RWP, JE2TUH, JF2AGC, JF2NTV, JF3EIT. **JA3YBF:** JH3KJL, JF3MCC, JH6UBZ, JF3ELY, JR3UPO, JH4CES, JE3EPD, JA5XU, JR3YSV, JA9TAF, JR3IOT, JE3KIV, JF3KJZ. **JA3YCU:** JA3UPK, JA3REU, JE3KCC, JA5GZB, JA6VXM, JH3JRB, JG3EMB, JR2SQJ, JE3MXQ, JA5TDH, JA3WJ, JR3BKH, JR3KEG, JH3PKS, JR3XGK, JR3RIU, JF3SFP, JH3VOT, JF3KJ, JH2LRS, JR3FRR, JE3MAS, JA5MOU, JR3SUK, JE3BLA. **JA3YQD:** JE2HOI, JH3OXA, JH3SUC, JR3GWH, JR3NGA, JR3KQV, JE3EPK, JF3PLF, JG3POU, JG3UTL, JF2GHQ, JH3OGY, JH6TLC, JA8SJV. **JA4YQO:** JA5POE, JH4AQA, JR2SCJ, JH6CGU, JH4WAT, JA4XGA, JH4LGI. **JA7YAA:** JA7WBW, JH7WTC, JH7AEF, JH7LIS, JH7SFY, JH7HWR, JH7HVM, JG1UJD, JA9PPC, JA7TNO, JA7NRQ, JA8FTW, JR7OMD. **JH1YDT:** JH1GNU, JE1QMV, JE1SCJ, JF1EAL, JF1QDO, JF1SDH, JI1SHX, JK1DLQ, JK1RJU, JA0VSH. **K2UA** & **K2BU**, **WA2HGM**. **K3WW** & **AJ3G**, **K2ZSY**, **K3WJV**, **KB3GJ**. **K8LX** & **K8GM**, **K8MD**, **N8EA**, **W8KPL**, **W8TA**, **W8WA**, **WA8TQ**, **WA8YVR**, **WA8ZDT**, **WN8PEE**, **WD9HFV**. **K0RF** & **K0DU**, **K0GU**, **N6DX**, **N6ZV**, **N7DF**, **N0RR**, **W0UN**, **W0ZV**, **WB0CM**, **WD0DSU**, **KA0BJI**. **KL7Y** & **AL7H**, **AL7J**, **KL7JHD**, **KL7HDS**, **WB6FZN**, **KL7DP**. **LUX7**, **LU1AF**, **LU1DZ**, **LU6EF**, **LU7XP**, **LU4XS**. **N2AA** & **K2GL**, **K2BQ**, **K2NG**, **K2UR**, **K2TT**, **W1PM**, **K1KI**, **K2SS**, **N1XX**, **N2WT**, **WA2OVE**, **WB2VYA**, **WA2SFB**, **K2XR**. **N2RM** & **N2ME**, **N8DM**. **N3LR** & **W3BI**, **WB3HEQ**. **N3RD** & **K3FD**, **N3RS**. **N0ND** & **K6UJS**, **K6XT**, **N6RM**, **N6ZI**, **W6UQF**, **WB6HGJ**. **N9MM** & **K8MN**, **W8CNL**, **K9FN**, **K9JF**, **K9UWA**, **N9NC**, **N9NS**, **W9OBF**, **W9RE**, **W9VNE**, **W9ZRX**, **W9ZTD**, **WB9LTY**, **WB9POH**. **OH1AA:** OH1FH, OH1SU, OH1IO, OH1LQ, OH1MD, OH1NH, OH1NK, OH1NM, OH1OG, OH1RM, OH1YU, OH1TW, OH1WR, OH3ZE. **PJ2CC:** K3EST, K3KU, K4BAI, K4VX, PJ2FR, PJ9EE, W1BIH, W1GNC, WB4SGV. **YU3EY**. **SK2KW:** SM2ALH, SM2CPF, SM2DMU, SM2DZL, SM2DGO, SM2DQS, SM2EPR, SM2EKM, SM2HAK, SM2HRW, SM2HTF, SM2JFT, SM2KWO, SM2HQZ, SM0DGU, SM0GNU. **SK5AJ:** SM5AD, SM4BNZ, SM5CAK, SM5CBN, SM5CNQ, SM6CST, SM6CTQ, SM7EXE, SM4GLC, SM0JHF, SM5VB. **TG0AA:** W1XX & **TG9ML**. **VP2VEQ:** K4GKD, N6ZZ, AA6RX. **W3FA** & **K3ZZ**, **W7ABC**, **W3IUU**, **W3XY**, **WA3ECT**, **WA3KCY**, **WA3ZAS**, **K4YF**, **W3GM** & **AA3B**, **K3GQK**, **K3RL**, **K43BLP**, **WA2YOF**. **W3GU** & **W3KV**. **W3LPL** & **K3NA**, **K3CN**, **K3RT**, **WA3UXU**, **WD4AXM**. **W3MM** & **N2BA**, **K3OO**, **K3GM**, **N3UU**. **W3RJ** & **K3VV**. **Y08AJG** & **Y08BAM**, **Y08AMT**, **Y08AP**, **Y08AHH**. **ZF2AD** & **K3MBF**, **N3ED**. **9Y4W:** WA3LRO, N2MM, W3XU, W2GD, N7TT, 9Y4VU.



WA3LRO, W3XU, N2MM, 9Y4VU, W2GD, N7TT.

USA QRM

Sure missed hearing KH6IJ...K4PI. Distressing to hr multi-multi's continuously occupying freq with CQ's...WB4SXX. Where were all those rare ones...K4KUZ. 10 meters outstanding...WA4QML. Thanksgiving weekend is tough for us family men...K4VT. Nice to work "TF" on CW...WB4WHE. After spending two years writing letters and trying to arrange the schedules with DF4NW/A7 on CW he calls me!...N4WW. My SB220 went "up in smoke" Sat. night at 0048 GMT...N4ZC. Please consider alternating phone and CW weekends each year...K4RV. Great to hear so many USSR stations...N4PN. Should be handicap for living in the same districts with the big guns...K5KG. Very few kooks this time...K5DB. Pile-ups get worse each year...W5DUJ. Problem finding DX in zero beat of US stns calling CQ...N5HB. Not enough Europe...W5MYA. Rotorator stuck twice. Had to climb tower at night with flashlight...AF5K. 80 M opening LP to EU/SSR on Sat. morning outstanding...N6RO. My best score from home in 10 years...N6IC. Thank heaven for narrow IF filters...WB6SHL. TVI complaint 2 blocks away. XYL told neighbors I wasn't home...N6OZ. CQWW contests are "main event"...WB6JMS. Southern hemisphere scarce...W6ABT. A few stations actually heard my 8 hrs of pounding...N6PE. Worked KH3AA 8 minutes after the contest. Where was he when I needed him?...WB3JRU. ZL3GQ was loudest signal on 160 M from the Pacific right through W6's and W7's calling him...W7JYH. My first DX contest. Gotta trade the straight key for a keyer...KL7FDQ/7. Wish I could have more time to operate, but I got two new countries...WB7SQM. Was very pleased with the DX in the Novice band...WD9EJE. Glad to find and work FR0MM on 10 meters...WA7YHP. Polar adsorption on 40 meters kept long haul contact total down...K7UR. Hope to have a beam and shorter call next year. My first time at CQ WW. Had a ball...KA8CQI. Don't know if it was more fun than work or more work than fun, but I'll be in the next one...KB0HA. Congrats to the JA's. Some of the best CW ops in the world...K0ZX. Chased FB8XV around 20 meter long path, but couldn't catch him. Maybe next year...W0WP. Available: one wife, three sons, one dog any contest weekend...AB1U. Too bad for those who missed one of the best USA-EU openings in years (160 M)...K1PBW. Learned a great deal about 7 mc propagation...K1VUT. Finally, a contest that nothing broke...K1NA. Too many W's calling CQ...W2AO. Highlight: QSO with ZL3GQ on 1.803 MHz with 3 watts output...W8VSK/QRP.

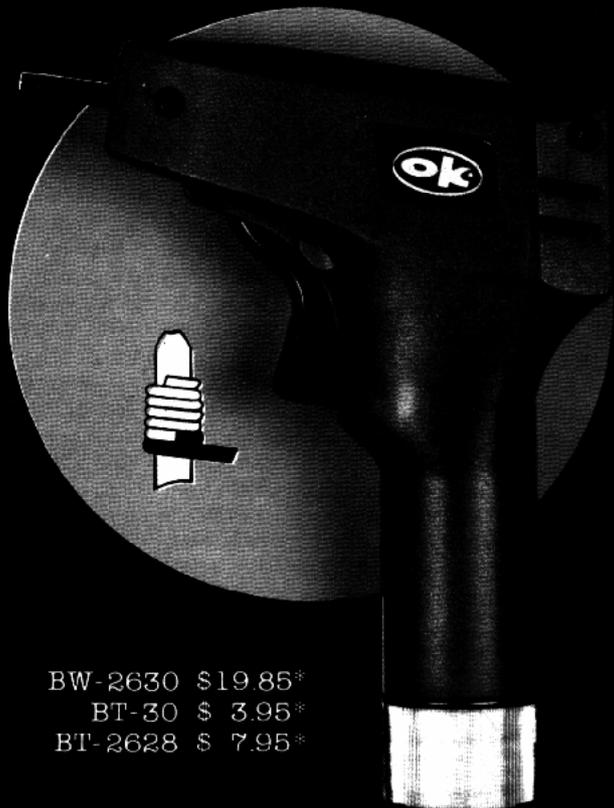
DX QRM

Finally got license after 1½ years just two weeks before the contest...SV0AR (WB9UIY). Poor activity from Africa...YU1EXY. What a lot of W's! But where are the JA's?...I4IND. From 1950, almost every year with you in this contest...HB9KC. Installation of the big 7 MHz yagi before the contest made me more tired than all the contest operation...OH6DX operator EA8AK. I love CW...JE1JKL. Again aurora...OH8SR. My age is 13 and I am fond of contests...OH6DC. First contest. I'm 13 years old so I have many years left for contests...OH5KR. When power went off I took part in chess competition and won a medal!...YT3L, QRP. Used only 8 crystals...OH6GZ/2. A bit more support could have more than doubled the score. Otherwise a VG contest...VP9DX. The brilliant aurora did us in as far as working Europeans was concerned; no Africa either...VE7AV. Condx so good and pile-up so big on 10 meters, we had great difficulty picking out calls...VE8NI. See you next year with bigger score...TF3CW. After 3 years operating from YB3 it was nice to try again from home...PA0LOU. Activity good and conditions favorable. Managed to give GI to lots of stations. Still young at 70...G13JEX. On air for over 47 years and still no beam. Wonderful what bits of wire will do...G15UR. Wonder if CW interest is going down. Maybe we need a slow speed section...SM0AJU. Active in contests since 1926...F8TM. Was trying to beat the European record but no JA opening on 10 and 15 spoiled it...OZ1LO. Nice to beat record that has stood since

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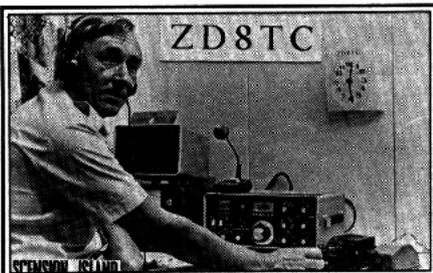
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Ted, ZD8TC, helped give out zone 36. VP2SX operated by K1XA, VP2SQ, Chris, G4BUE, World Top QRP score, and K1TO (not shown).

I was five years old... GU4CHY. Antenna system went up on Friday and down on Monday to keep peace in neighborhood... G5CMX. How about some real reports. I know I am not S9 everywhere!... G3JKY. Worked 39 W stations on 7 MHz and ZL3GQ long path on 14 MHz with 5 watts... G4BUE. It is remarkable to have gotten HH2MC and PJ2CC with QRP rig... JR6KRI. Even with 5 watts it is possible to reach every heard station at least on 10 meters... DK2BJ/A. First CQ WW test. Hope to do better next year... UL7MAR. It seems that our 3 element quad on 7 MHz and 5 element on 14 MHz was designed especially for CQ WW Contest. On Monday after CW part it crashed in strong wind... UK2PAP. Don't think we could do any better this year. UK9 doesn't sound like PJ2 and the sun covers the south—Hi!... UK9AAN. Nice to work 160 for first time in contest... UR2RDX. Activity great. Nice to hear the likes of HZ1HZ, etc... C6ACY. Every time the best contest on the amateur bands... HR1AT. Some of these rare contest calls drive me up the wall... VE3FAE/HCI. Condx poor, tropical QRN strong S+9, Caribbean station calling CQ in DX window... YV1OB. Big thrill QSO with K3VA on 160 M. First ever contacts between JA and W3... JA7AO. I wish more activity from Africa and South America... JF1PUW. Most difficult country for me was JA, because they

neglected my call... JJ1SOE. On Friday Murphy stepped in! Stuck with us throughout the contest. Next year will wipe him out... SL2ZZU. 14 mc conditions were just like the sunspot bottom... JA3YKC. One rig caught fire, one blew fuses and dial lights of a turned-off amplifier lit to full brilliance... KL7Y. My first single band entry in this contest, worked all multipliers that I heard except TG0AA and W5JMM/SU... OE5CWL. Condx very good again this year, suspect many records broken... I4JCC/5 (op: W3US). Great this festive moment in our amateur life... YO3JX. Did not hear any VK/ZL stations. So, America was poor here. I hope to work 1980 CQ Contest with QRO on all bands. A fine contest!... YO5BQ. As usual, the finest contest ever! See you next year!... YO3BEJ/9. Had to take 8 hours rest period on Saturday night, AC power went out... HA0HW. Many stations did not give their call sign for 15-20 minutes and many dupe QSOs... YU4CF. I wish I could try it from zone 09... OK2RZ. Built a new vertical for 40 M and it proved to be working fine. Went to bed after the contest and woke up Tuesday morning! Guess will keep myself limited to single band entries in the future and leave all-band to younger chaps. Hi... OK3EA. Very few stations on 15 M all contesters were up on 10 M where the condx were much better... OK1TA.



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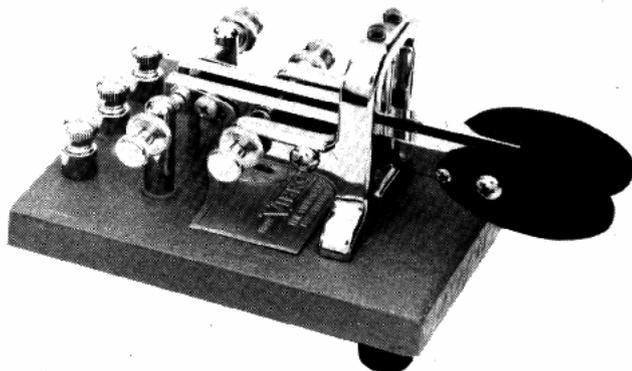
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TOP SCORES

WORLD Single Op All Band		USA Single Op All Band	
E8BAK	4,005,050	K1AR	2,635,224
9Y4VT	3,769,259	K1VTM	2,379,465
UF6DZ	3,440,172	W1ZM	2,368,968
OK2RZ	2,916,045	W1CF	2,360,450
K1AR	2,635,224	N2LT	2,326,170
UA1DZ	2,614,568	W3GRF	2,064,972
OZ1LO	2,523,528	K3LR	2,016,204
K1VTM	2,379,465	N3AD	2,001,300
W1ZM	2,368,968	K9DX	1,970,829
UV9AX	2,368,546	N6RO	1,961,883

Single Op Single Band 28MHz		Single Op Single Band 28MHz	
LU8DQ	1,033,399	N4WW	349,206
FR0MM	978,012	K8NZ	309,632
KV4FZ	653,072	N8II	309,222
DK3GI	592,848	AE2A	306,306
KH6XX	586,236	W5MYA	299,976
C5AT	495,558	K1NA	291,126

21 MHz		21 MHz	
VP2MEE	623,118	W1RM	450,120
VE3BMV	574,056	K8IA	408,590
SM5GMG	526,229	N5CR	394,750
I4IND	502,448	N7XX	352,768
W1RM	450,120	N6CW	343,824
VE7DXC	448,572	K4RV	322,028

14 MHz		14 MHz	
YU3ZV	598,506	K8ZH	440,496
KX6PI	441,780	N4PN	433,576
K8ZH	440,496	K0KX	423,025
N4PN	433,576	W6KPC	371,500
K0KX	423,025	W5FO	366,404
UH8EAA	411,120	K1SA	309,750

7 MHz		7 MHz	
YU2CDS	361,680	W5UN	202,176
I2XXG	279,648	K7UR	142,740
YU1EXY	223,652	N6AW	133,620
W5UN	202,176	N5TP	123,270
K7UR	142,740	K2IGW	112,021
GW3NYY	139,040	W8UVZ	91,104

3.5 MHz		3.5 MHz	
EA2OP	114,075	WB3AVN	35,287
DJ2BW	110,618	W9LF	25,179
UA9CM	91,712	K1MEM	24,780
YU5FAA	86,184	W2FR	21,312
H31LR	79,356	N7EA	14,709
LZ2PP	73,233	WB9TIY	8,512

1.8 MHz		1.8 MHz	
G3SZA	21,960	K1PBW	11,040
K1PBW	11,040	W8LRL	6,232
OK1DIJ	9,006	W1BB/1	2,842
UC2AAK	8,262	W2IB	2,632
UA2FCW	8,126	K5GO	1,920
OK1DWF	6,820	AE6U	1,648

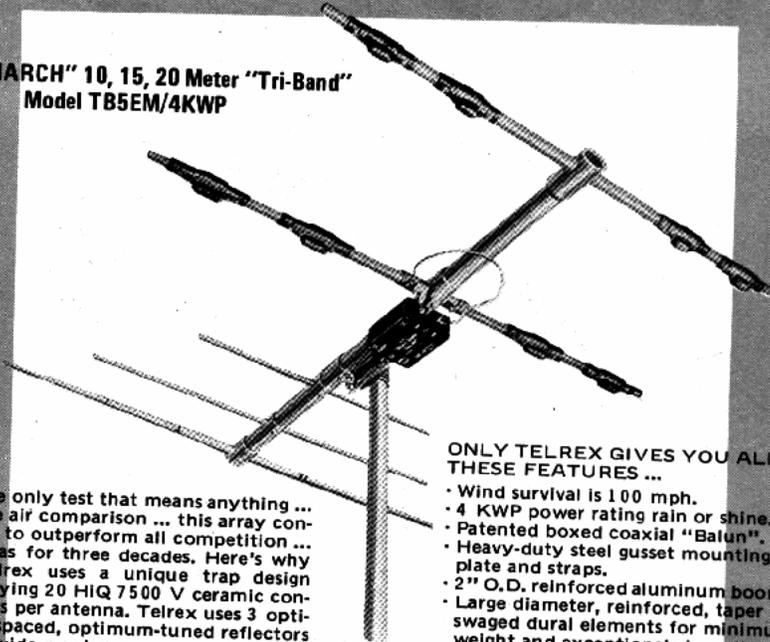
Multi-Op Single Transmitter	Multi-Op Single Transmitter		
NP4A	7,982,576	K5RC	4,148,784
R6F	7,966,368	N4AR	3,199,572
UK9AAN	6,357,553	W3BGN	3,045,549
HH2MC	5,426,104	N1AC	2,093,649
VP2SX	4,859,777	K2BK	1,998,461
EA9EU	4,200,839	N0NO	1,946,610

Multi-Op Multi-Transmitter	Multi-Op Multi-Transmitter		
PJ2CC	20,045,952	N2AA	8,542,056
9Y4W	16,835,172	K8LX	6,568,430
N2AA	8,542,056	K3WW	6,467,632
SK2KW	7,101,325	N9MM	5,951,372
DL0PG	6,846,726	K0RF	5,715,264
K8LX	6,568,430	W3FA	5,683,174

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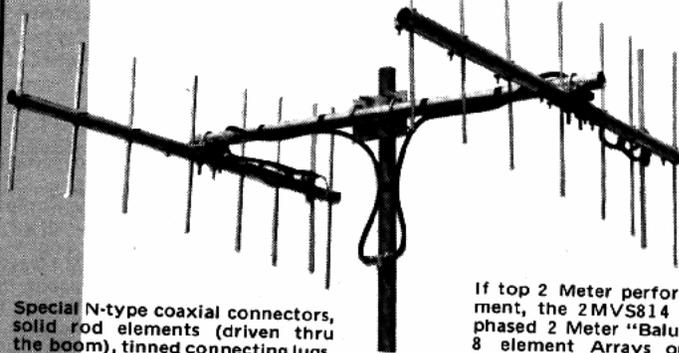
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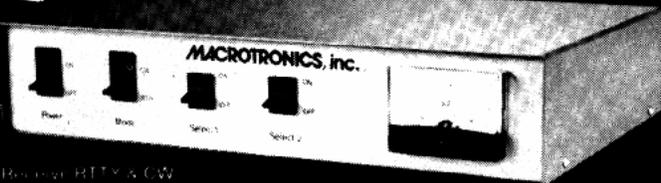
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2. UB5CI 402,753
3. YT3L 374,661
4. OK1DKW 304,194
5. SM5CCT 256,365
6. WA4LOF 188,055
7. W5YZ 163,348
8. WA6POC 143,377
9. VE5JQ 70,512
10. K8DU 69,823

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W1ZM	"	2,368,968	1730	126	346
			(Opr. K1ZM)		
W1CF	"	2,360,450	1768	125	332
			(Opr. K1UA)		
W1RR	"	1,935,549	1530	117	324
K1DG	"	1,867,455	1608	110	295
W1KM	"	1,840,440	1611	103	289
N1GL	"	1,456,420	1230	113	299
K1RX	"	1,081,598	1167	90	232
W1GG	"	602,196	672	96	225
W1FJ	"	383,130	507	78	192
WA1UZH	"	272,154	484	60	141
W1LOQ	"	231,352	353	74	168
W1OO	"	175,071	320	70	131
K1TN	"	172,860	285	66	149
KA1EP	"	165,620	361	61	108
AB1U	"	165,416	315	64	120
K1BV	"	155,991	331	55	108
W1WV	"	150,880	268	67	138
K1WJ	"	143,276	271	59	137
WB1AGO	"	120,228	248	52	120
W1FL	"	76,410	203	40	952
W1HX	"	68,675	142	66	109
K1MBQ	"	65,975	325	64	139
W1CNU	"	63,500	175	42	85
K1CC	"	40,713	126	40	83
KA1DS	"	36,000	125	33	67
W1SD	"	34,684	111	37	79
WA1KSF	"	28,362	112	25	62
WB1EYI	"	26,136	100	34	65
N1AU	"	23,808	86	35	61
WB1DFV	"	11,891	91	15	32
WA1VVT	"	8,500	59	16	34
W1CM	"	3,932	59	17	29
N1DC	"	3,744	53	22	30
W1OPJ	"	88	4	4	4
K1NA	28	291,126	823	29	82
AG1C	"	71,764	327	22	55
K1EMU	"	19,992	106	26	42
K1UU	"	11,475	80	12	39
W1TN	"	9,231	63	15	36
W1RM	21	450,120	1173	37	95
WA1FCN	"	159,444	528	30	73
K1SA	14	308,750	885	36	89
W1YN	"	254,750	885	34	81
K1WJL	"	104,760	334	30	78
K1WAI	7	83,678	345	21	65
K1VUT	"	16,578	115	13	41
K1MEM	3.5	24,780	130	16	54
K1PBW	1.8	11,040	85	14	32
W1BB/1	"	2,842	36	9	20
AA1K	"	1,302	44	7	14
WB1HIH	"	176	40	3	5
N2LT	A	2,326,170	1743	127	335
W2VJN	"	1,620,432	1368	113	319
W2YY	"	1,436,162	1417	81	257
K2DM	"	1,281,165	1322	96	231
W2YC	"	614,668	842	97	251
K2SX	"	715,204	729	101	255
K2TD	"	560,280	615	96	226
W2MR	"	520,025	608	87	218
W2LYL	"	482,300	658	76	184
K2MFY	"	424,751	561	78	191
W2NS	"	340,784	532	65	154
K2QL	"	266,844	428	67	155
W2FTY	"	235,104	363	77	160
K2VY	"	178,947	353	52	125
K2SPD	"	163,152	281	68	130
WA2ORX	"	132,612	274	56	116
K2PF	"	130,680	251	63	135
K2PE	"	129,642	198	53	121
WA2DPU	"	124,320	241	53	107
K2FS	"	110,670	222	58	128
WA2LJM	"	109,792	265	46	100
WB2LJK	"	82,225	213	48	95
K2QF	"	69,550	222	41	66
W2IY	"	66,690	147	66	105

N6VR 3.5	8,256	98	14	18	W8GOC	175,638	298	69	150	W89SMU	2,555	29	14	21	
A6EU 1.8	1,848	83	8	8	W8QBQ	164,500	326	62	126	W8QA	196,699	843	30	77	
WA7NIN A	1,954,612	2012	120	221	N8BJJ	158,472	300	58	128	W8NO	179,828	610	29	73	
		(Opr. N6TV)			K8QL	150,150	290	75	135	W8VA	148,100	514	28	72	
K7RI	1,826,992	1751	127	229	N8BC	136,324	293	58	115	W8VP	124,778	490	27	62	
W6RR/7	1,076,670	1148	109	206	K8SIA	126,144	254	65	127	W8WJ	112,224	410	27	69	
W7IR	1,070,000	996	125	250	W8MOV	125,080	235	66	122	K9WJU	98,688	363	26	70	
K7ZA	621,920	836	98	162	W8GBE	114,204	242	61	125					(Opr. AB1J)	
W7SE	261,171	522	70	133	A18M	100,951	244	58	99	W8YVG	70,383	283	25	62	
N7RT	282,586	452	76	153	W8UD	96,140	354	29	64	W8PHE	57,602	347	24	59	
W87FF	217,930	647	56	99	W8YR	93,867	173	74	127	K9MK	46,320	212	25	55	
N7AM	210,756	418	73	109	K8MR	84,309	196	59	98	W8EJE	40,710	226	21	48	
K7LAY	184,842	413	60	102	K8AC	70,028	157	59	105	W8LT	21	268,625	922	32	83
W7JYW	173,558	410	59	95	K8OT	69,440	183	49	91	K9RN	258,656	770	33	85	
W7TS	143,220	319	54	101	W8BJT	30,195	107	38	61	W8HIX	96,842	398	24	58	
W87USQ	129,270	352	58	81	K8LJG	23,310	94	34	56	W8DWQ	94,374	311	33	74	
W7IIT	108,900	311	45	76	AF80	22,659	96	30	53	K9WYI	23,651	126	20	47	
K7CPC	105,203	278	45	79	N8MK	7,998	48	26	36	A19W	17,818	108	21	38	
K7FCQ/7	46,782	201	42	65	K8MVZ	4,428	36	16	25	W89TB	3,780	32	16	26	
W7JKA	37,440	116	43	74	K8HV	3,760	35	16	31	K9RS	37,146	168	23	59	
N7DX	36,985	217	31	34	K8LJ	1,924	25	17	20	K9PG	6,720	52	17	31	
W7YS	36,540	141	36	54	K8HZ	309,632	906	31	87	W8LF	25,179	130	23	54	
W7KRM	36,480	134	36	60	N8II	309,222	864	32	91	W89TY	8,512	61	16	40	
K7LUC	24,518	112	39	43	K8MFO	272,056	755	31	93	K9M	3,400	44	10	24	
W7DR	9,185	64	24	41	W8WFC	244,640	777	29	81	K9HDE	945	12	5	7	
W87SQM	6,862	57	22	25	K8CX	235,764	748	29	79	W8CG	1,386	27	9	13	
W87BNP	1,914	28	18	15	W8TWA	131,040	474	29	67	W8CH	1,360	35	8	12	
W7WA	160,735	656	27	58	W8WSD	36,113	166	22	55	W8WP	1,061,450	1125	103	222	
W7EJ	104,896	425	28	60	W8WVU	24,505	136	20	45	NRGA	775,533	824	112	219	
N7TU	88,160	408	25	51	K8IA	408,590	1106	35	95	K8FX	623,766	766	99	187	
W87YHP	65,760	293	24	56	W8PKB	290,200	800	35	85	NRGT	579,370	816	88	165	
W1YY/7	38,760	206	21	47	W8UQA	212,892	642	32	81	W8IUB	483,975	725	80	159	
N7NW	5,160	49	13	27	K8CQI	5,735	82	14	17	W8HW	333,861	747	54	147	
N7XX	352,768	1140	30	76	K8ZH	440,496	1117	38	100	W8WZTN	260,400	387	80	160	
		(Opr. WA1KMK)			N8CC	288,408	814	34	88	W8WR	199,106	321	81	145	
N7RO	200,430	760	30	60	N8XE	4,995	45	16	29	W8VU	180,400	301	82	138	
AF7S	152,886	658	28	55	NRAGU	836	15	9	13	AG8A	179,340	302	72	138	
AJ7S	111,264	505	25	51	W8UVZ	91,184	318	29	75	AK8M	91,931	203	53	108	
K7AA	24,304	136	26	36	K8ND	56,090	309	21	50	W8QTV	71,736	206	48	74	
K7KJM	9,534	80	18	24	N8RA	26,480	177	15	45	W8OTVA	40,824	252	63	99	
W7AYY	26,550	157	19	40	A8AS	6,176	76	9	23	W8UZ	20,169	88	32	51	
K7UR	142,740	560	27	63	K8BEC	4,235	63	11	24	W8LHS	20,086	86	32	51	
K7WA	29,280	223	18	30	W8LRL	6,232	80	11	30	K8IFL	19,076	82	29	47	
N7EA	14,308	136	15	26	K9DX	1,970,829	1576	126	315	W8ISW	12,716	76	30	38	
K7CW	3,753	51	10	17	K9BP	706,888	822	104	199	KA8ASU	11,448	68	29	43	
K7MKS	736	18	8	8	W9OP	625,989	800	91	182	NRAYM	7,544	61	13	33	
W87BFK	374	29	6	5	W8GEKA	320,944	537	67	141	W8YK	223,400	769	30	70	
		(Opr. K5WTA)			K9UON	213,195	407	58	135	W8YUI	80,655	300	27	68	
N8JW	1,098,984	1100	105	243	K9DAF	202,530	349	72	143	K87HA	69,126	289	24	58	
K8GL	830,726	820	107	252	W89DEE	177,660	309	69	141	W8UM	30,488	150	23	51	
K8US	465,630	672	82	173	W89DCL	167,980	277	76	151	W8VX	22,144	126	21	43	
W8QWI	437,684	618	71	176	N9ER	116,808	226	67	119	K8ZT	301,368	911	34	82	
W8TNO	381,240	497	87	183	W8GIL	110,110	347	33	77	NRAT	221,088	817	31	67	
K8JK	359,400	434	93	207	W8QWM	88,924	218	67	105	AJ8I	7,740	83	12	24	
K8SS	300,300	400	87	186	W8FBC	48,100	164	34	66	K8VW	3,597	40	15	18	
					K9CC	35,207	120	39	70	K8KX	423,025	1203	37	88	
					W8RNT	27,600	103	45	55	W8FO	161,590	508	33	80	
					W8TNZ	19,600	86	27	53	K8CS	300	11	7	8	
					W8HPG	17,621	103	24	43						

The UDT 170



The SMART TU for RTTY & MORSE

The UDT 170 Universal Data Transceiver will instantly convert any ASCII or Baudot teletype or video terminal into a multiple baud rate data transceiver for ASCII, Baudot or Morse operation. It features ...

- 170/850 HZ Shift
- Dual 6 pole active filters for weak signal operation
- ASCII/Baudot Regeneration with multiple baud rates
- CW Auto Ident (optional)
- 1-150 WPM Morse with Auto-track
- Computes & Displays WPM copy rate & Buffer Status
- Selectable line length from 40 to 80 characters
- Metal Enclosure 12"x7 1/4"x3 1/2"

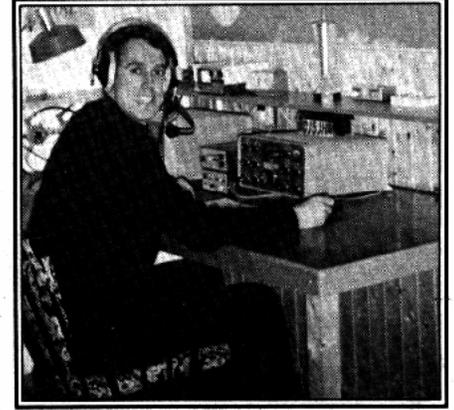
For more information write or phone

Price, Complete and Assembled **\$549**

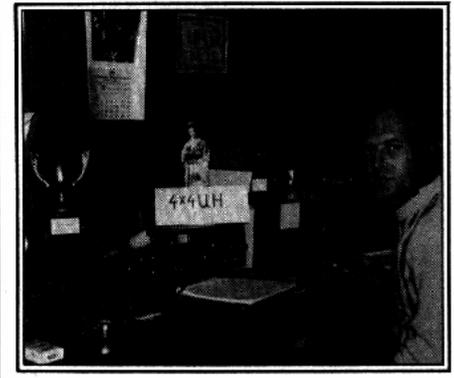



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9861 Chartwell Drive
Dallas, Texas 75243
(214) 349-2490



Wolff, DJ5JH.



4X4UH, David.

REPUBLIC OF SOUTH AFRICA			
ZSBRK A	219,958	526	52 90
ZS2CW	34,368	195	30 34
ZS6ME	149,200	624	26 54
ZS6BSQ	10,582	96	13 24
REUNION ISLAND			
FR0MM 28	978,012	2580	36 90
(Opr. K1MM)			
TRISTAN da CUNHA			
Z07BW A	3,600	32	17 23
ASIA			
INDIA			
VU2GO A	136,120	327	55 109
VU2UH 3.5	24,649	178	18 31
ISRAEL			
4ZAKX 28	368,986	1237	29 77
4ZAUH 21	358,386	1193	33 73
4ZANUT	242,112	1047	27 51
JAPAN			
JE1JKL A	1,996,700	1550	135 245
JA1BWA	1,230,460	1314	117 208
JE1CKA	1,141,560	1409	94 186
JG1COM	827,148	978	112 189
JK1OPL	823,979	1089	98 165
JF1SEK	647,420	1039	82 146
JA1YJF	443,778	710	90 132
JF3CON	430,157	733	73 130
JAZMGE	423,072	632	93 141
JASVS	361,530	653	77 118
JASKJD/1	340,362	618	81 117
JAGAKW	337,340	698	57 110
JAGCNL	327,474	521	84 142
JH1BRG	318,201	561	82 117
JA1PCY	300,825	596	73 102
JH7WQ	278,640	574	71 99
JRHVC	229,246	488	61 105
JR2IEG	218,036	431	73 109
JH1MTR	181,745	398	68 95
JA2UA	176,715	337	76 111
JU1SOE	173,889	442	60 79
JH7LMZ	165,217	325	71 108
JA3YEE	165,165	364	61 104
JA3RL	160,128	402	61 83
JA1AYC	157,920	481	47 65
JF1NCT	133,584	395	46 65
JA6BF	128,188	312	58 88
JG1JMH	127,641	293	63 94
JA9SQU	118,989	350	51 66
JH2JEV	117,760	375	56 59
JA7FFN	88,752	239	57 72
JK1AJX	87,230	282	52 58
JA7BVA	86,016	248	56 72
JF2DQJ	84,600	297	42 58
JA1IZ	82,716	252	46 67
JA4AQZ	69,912	249	41 63
JA1BSU	64,380	204	49 62
JH4UUV	63,242	218	41 62
JK1BBV	62,622	175	52 74
JA5AF	61,533	177	52 77
JA8UHL	60,912	185	51 57
JH4PUL	54,670	181	50 60
JA3BQU	54,400	275	32 36
JA9FT	50,552	194	37 52
JR6LKG	34,128	163	34 38
JA7MJ	33,580	132	45 47
JAGAKY	30,104	146	27 44
JR3XEX	21,340	139	30 25
JA7FME	18,906	104	38 31
JR6BZK	15,514	83	34 40
JA2AJA	9,856	150	12 10
JH1BLZ	9,315	76	20 25
JASBAG	8,512	78	19 19
JK1F1L	8,256	66	20 23
JA10UM	8,008	71	29 23
JH7BVS	5,568	42	24 24
JA180K	5,544	46	22 20
JA8GZ	3,900	46	18 12
JASCUX/1	3,264	46	13 11
JA1EA	3,135	55	12 7
JA9PBZ	2,499	40	11 10
JA9CWH	2,294	26	13 18
JH9RH1	1,795	34	9 12
JA1EF	800	14	8 12
JK1FRH	231	9	6 5
JA2RFJ	100	6	5 5
JE1HJG 28	344,925	1124	31 74
JK1KUV	215,780	854	28 59
JA6BX/3	215,370	848	29 61
JH1ZRT	178,360	672	30 61
JH1VRQ	152,280	567	29 63
JA8TRT	130,264	602	26 50
JR2DWW	121,626	438	28 59
JA3ECC	120,120	543	24 53
JA2WB	108,062	442	28 58
JA1CMD	93,200	402	28 52
JA2UI	90,080	396	26 54
JA1AFF	88,726	412	23 51
JH7UJU	79,350	377	23 52
JA4YFH	75,702	393	22 44
JE1GCI	73,722	383	25 41
JA1DFQ	71,784	345	25 47
JA1EM	50,832	252	22 50
JH1DMS	42,201	187	25 56
JA2DHL	41,541	236	21 40
JA7BJJ	35,700	343	17 18
JK1OSP	33,152	178	23 41

JA1OP	32,438	225	20 29
JATJND	31,878	169	18 48
JA2UJ	28,704	145	24 43
JATEC	20,520	136	21 33
JA9YE	16,440	98	21 39
JR4DZM	15,750	126	16 26
JR4DJY	14,728	93	19 37
JH4WHV	14,670	117	16 29
JA1AAT	13,621	89	19 32
JA6EJO	12,118	63	24 49
JATECT	7,314	112	12 11
JA3BLN	6,000	50	15 25
JEMCJ	5,240	86	11 9
JR6LP	256	22	4 1
JF1EEJ	1,750	26	13 12
JH1LPT 21	376,208	1151	35 77
JA6GQ	299,761	1258	25 56
JR2GNZ	297,990	973	32 73
JR6NQ	289,590	1016	33 65
JH3CXL	256,838	834	33 73
JK1GDD	223,320	665	37 83
JK1AIJ	205,500	703	35 65
JG1GJ	185,731	764	33 58
JA2AXB	178,622	705	28 58
JA1DY	145,120	621	27 53
JR1SLU	144,050	575	27 59
JH6DQ	141,750	604	26 55
JA1CSB	134,292	610	25 51
JA6VZB	114,048	537	26 46
JH2DYM	109,725	494	25 52
JF1EZH	103,878	411	30 57
JA9ST	97,644	421	26 53
JF1PUW	87,376	349	28 58
JA1AEU	67,488	310	28 48
JA6BMS	64,148	347	21 37
JF3PNO	62,169	310	26 43
JH1BCY	54,250	272	25 45
JA6NC	53,680	233	27 53
JA7AZJ	51,870	272	24 41
JA1HQS	48,204	279	21 35
JAZCUU	39,008	260	18 35
JR4BVD	31,310	176	23 39
JAGN	26,558	187	19 30
JG1PFE	25,428	173	20 32
JK1ASO	25,023	152	21 36
JH7WEE	22,181	190	18 23
JH7RKT	21,053	200	15 22
JR1RUP	16,700	118	23 27
JH6XL	14,440	129	17 23
JA1SIN	12,768	106	18 24
JH2XTV	8,019	83	15 18
JA1BZM	6,435	67	14 19
JA6ZG	5,820	68	14 16
JH6TNN	2,726	36	13 16
JK1VJN	2,233	28	10 19
JA6BF1	774	21	8 10
JH6JF	279	11	5 4
JE2XLQ	264	12	5 3
JA2EJ 14	236,210	716	33 82
JA7FR	188,064	680	32 64
JR1RC	162,798	656	29 57
JE1EE	162,000	563	33 67
JE1AYU	151,262	508	33 56
JR1XFS	105,092	437	30 56
JA6CJG	74,983	325	31 52
JH4DRB	42,229	213	30 43
JA2DN	31,442	144	28 51
JK1DBA	22,080	139	24 36
JK1HNC	21,816	140	21 33
JG1GQ	17,215	113	24 31
JH7JM	14,227	132	20 21
JA3ARM	13,984	116	17 29
JA3AL	13,338	92	25 29
JR6CWC	9,487	65	23 30
JA7AOU	5,022	56	16 15
JA2HFB	3,162	35	17 17
JA1SMA	2,750	47	12 10
JA6FYM	1,740	31	9 9
JA2AVI	1,420	39	12 16
JK1KRX	1,081	21	9 14
JA1UPD	1,020	17	9 11
JR2BDG	924	30	6 5
JR1AQQ 7	131,898	536	29 60
JH1RFM	73,036	342	25 31
JR1PNX	52,633	270	24 29
JA2INS	13,184	77	24 40
JK1GCA	7,805	85	15 20
JA180K	5,307	61	16 13
JA1JX	2,883	33	12 19
JH7FZ1	1,064	27	7 7
JK1ERR	341	11	6 5
JA6LJ 3.5	34,068	201	26 42
JA6AUH	33,299	187	26 45
JA8DNV	15,800	120	21 29
JA1VK	1,472	25	12 11
JA3BCT	351	27	6 7
JA9CJW	273	15	4 3
JA3ONB 1.8	800	21	9 7
JA7A00	645	18	9 6

ASIATIC U.S.S.R.			
UG6GAT A	6,355	55	13 28
UG6GAI 7	131,978	623	20 56
ARMENIA			
UV9AX A	2,368,546	2036	116 304
UA900	589,098	773	79 203
UA9FAR	244,036	547	51 118
UV9DB	162,810	460	40 94
UA9MR	142,592	218	80 176
UA9UTF	117,263	268	47 102
UA9YCN	77,190	291	40 83
UA9NN	55,955	135	63 82
UA9KAN	48,736	200	25 87
UA9KAM	33,264	142	30 56
UA9NM	13,524	106	15 31
UA9SAX 28	224,826	879	29 77
UA9LUC	118,360	498	25 63
UA9OBT	90,545	405	26 65
UA9BZ	67,760	339	19 58
UA9CHB	18,314	136	14 25
UA9FY 21	87,611	443	24 56
UA9HBD	72,438	379	25 54
UA9OEX 14	177,100	722	28 81
UA9AFO	113,802	513	23 55
UA9ACU	105,625	585	17 48
UA9WBO	11,427	293	10 29
UA9JBN 7	102,500	507	23 59
UA9LAW	8,992	110	8 24
UA9CM 3.5	91,712	614	15 49
UA9WS	33,973	247	12 41
UA9FGJ	33,408	249	10 36
UA9WEE 1.8	2,530	44	7 16
UA9SY A	184,360	745	35 75
UWUO	161,152	698	48 80
UA9SE	132,356	440	36 80
UA9BIA	60,895	333	45 50
UV9EN	29,636	337	18 26
UA9CCD	18,669	146	17 32
UA9CDM	1,560	67	7 17
UA9SNG 28	125,531	714	25 54
UA9SGL	41,250	310	15 35
UA9SH	22,491	177	14 35
UA9ACJ	204,263	1012	25 58
UA9NH	92,224	585	20 44
UA9BS	86,140	672	18 41
UA9DH 14	50,666	357	18 40
UA9LD	273,045	929	33 76
UA9DWB	162,424	759	28 60
UA9DWO	181,700	730	28 64
UA9PJ	77,183	408	28 51
UA9DD	70,312	405	24 44
UA9SBO	64,068	425	23 34
UA9DPT	26,150	225	17 33
UA9DCA	3,150	49	13 17
UA9SD 7	2,946	55	9 12
UW9BF 3.5	21,150	224	16 31
UA9LBS 1.8	5,080	157	12 10
AZERBAIJAN			
UD6DXY A	1,009,008	1422	72 192
UD6BW	233,305	606	40 105
UD6DQV	612	12	8 9
UD6DJ 28	156,738	821	21 58
UD6CN 14	57,065	365	32 69
GEORGIA			
UFSOZ A	3,440,172	3540	99 255
UFSOAC 21	129,978	551	26 61
UFSVAG 1.8	1,883	36	6 11
KAZAKH			
UL7MAR A	1,202,976	1561	78 210
UL7BY	352,404	563	69 165
UL7TA	162,624	620	55 57
UL7CAZ	74,716	241	39 83
UL7LM	36,720	216	24 44
UL7LAW 28	183,012	782	27 73
UL7GAA	56,511	299	18 50
UL7GI	26,720	126	24 56
UL7GDN	3,168	72	8 8
UL7EAB 21	56,918	356	18 44
UL7PA	49,232	271	21 47
UL7NAC	2,875	47	6 17
UL7LCZ 14	223,912	810	32 72
UL7BAZ	128,553	635	25 48
UL7EAT	94,276	470	22 52
UL7JAW 7	85,652	512	20 56
UL7AAS	33,480	229	14 40
UL7GAV	20,880	180	11 37
UL7TBM 3.5	33,123	235	17 44
KIRGHIZ			
UM8MAO A	879,138	1080	99 207
UM8OMA	271,856	523	63 145
UM8NN 21	80,600	644	17 33
UM8MB 14	125,302	509	31 63
UM8MBL	27,390	230	20 35
TADZHIK			
UJ8JAS 7	107,992	540	18 58

Table with columns for country codes (G3HCT, G3RUX, etc.), call numbers, and frequencies. Includes entries for G3HCT, G3RUX, G3TJU, G4CNY, G3M2V, G4FNL, G4FDC, G3TVW, G3UKY, G4DNV, G3K0D, G3PVA, G3SZA.

Table with columns for country codes (DL7CW, DK3GI, etc.), call numbers, and frequencies. Includes entries for DL7CW, DK3GI, DJ6RX, DK5WL, DK5TI, DL5TV, DL1AM, DJ4EY, DL7J, DK7AH, DK1VN, DL1TH, DK8BI, DK5PR, DL3CW, DK6PY, DJ2BW, DL8EP.

Table with columns for country codes (H4SGU, HA8UB, etc.), call numbers, and frequencies. Includes entries for H4SGU, HA8UB, HA3HZ, HA3PT, HA4XW, HA6NL, HA7UI, HA8HU, HA5QU, TF3CW, E1MCS, E1B2B, E1D1H.

Table with columns for country codes (SP9BDQ, SP4ISR, etc.), call numbers, and frequencies. Includes entries for SP9BDQ, SP4ISR, SP4CZD, SP5LGP, SP9JCN, SP3FYX, SP5UIV, SP9DH, SP5KI, SP2FAP, SP7ICE.

Table with columns for country codes (GW3JI, GW3MPB, etc.), call numbers, and frequencies. Includes entries for GW3JI, GW3MPB, GW3HYY, GW3GWX, YUGOSLAVIA, YU7JF, YU4CE, YU20B, YU10BH, YU1BM, YU1NGW, YU7NGO, YU7OCZ, YU3WO, YU3TZP, YU2RAT, YU7NZR, YU2BTR, YU5ER, YU3AE/X, YU1EFG, YU7KWX, YU3TU, YU70CV, YU4VOY, YU4C8C, YU7NGG, YU2CJG, YU10VU, YU2I2, YU3ZY, YU3BC, YU3TMF, YU100N, YU2CDS, YU1EXY, YU2HDE, YU5FHA, YU4VBR, YU5RU, YU7SF, YU2KDE, YU2CRM.

Table with columns for country codes (OH2PM, OH3KM, etc.), call numbers, and frequencies. Includes entries for OH2PM, OH3KM, OH1NW, OH1HS, OH2CZ, OH2VZ, OH5PT, OH3NM, OH1EB, OH6NG, OH1EH, OH7OU, OH6EI, OH6GZ/2, OH4TU, OH3FW, OH3WR, OH3JR, OH2XB, OH3XZ, OH2FS, OH2EL, OH6RC, OH1CQ, OH2JQ, OH5SS, OH3TY, OH2BAH, OH5YX, OH5AC.

Table with columns for country codes (DM3XS0, DM2ZDK, etc.), call numbers, and frequencies. Includes entries for DM3XS0, DM2ZDK, DM2CZU, DM3XZ, DM2ZAH, DM3VLG, DM4CGL, DM3UJE, DM3WJM, DM3VTL, DM2CZL, DM3BE, DM4ZSM, DM2DEA, DM3CF, DM4ZFM, DM4ZL, DM2CGB/a, DM2JH, DM2CML, DM2DZG, DM3XU/a, DM3JX, DM4XOM, DM5BA, DM2CMA, DM2CJA, DM2BPF, DM4CBE, DM3PAA, DM3JNL, DM5WGL, DM2DLE, DM4SF, DM2CIL, DM3YBF, DM2AYX, DM2GGL/a, DM4YEL, DM4YZ, DM4XCE, DM3YEA, DM3X0A, DM3YUH, DM2BUB, DM3LE, DM40B, DM2CYE, DM2FWL, DM2AXB, DM3PQ0, DM2DIF, DM3WB/p, DM2DHG, DM2FRM.

Table with columns for country codes (I7PKV, I4ZYR, etc.), call numbers, and frequencies. Includes entries for I7PKV, I4ZYR, I4JCC/5, I6PY, I8DYD, I2BVS, I2RVW, I4ND, I2ZUF, I1QJC, I7LMR, I4KVE, I2XGB, I3VHL, PA8LU, PA3ABA, PA8INA, PA8DIN, PA8CT, PA8TA, PA8UR, PA8RRS, PA8INE, PA8CF, PA8PT, PA8ADA, G13JK, G15UR.

Table with columns for country codes (Y03JX, Y04XF, etc.), call numbers, and frequencies. Includes entries for Y03JX, Y04XF, Y03CR, Y03FZ, Y08DD, Y07DL, Y07ARY, Y02BE0, Y03AAQ, Y04BUA, Y08BDF, Y03AC, Y05AVP, Y05BAT, Y06KN, Y08RL, Y05BA, Y04KA, Y09HP, Y07BEH, Y03BEI/9, Y04CA, Y07AWZ, Y08BDV, Y08BDQ, Y05AAU, IS80MH, IS8FPH, GM3NHQ, GM3WRN, GM4BFX, GM3YOR.

Table with columns for country codes (WALE, YUGOSLAVIA, ROMANIA, SARDINIA, SCOTLAND, SPAIN, SWEDEN, ESTONIA), call numbers, and frequencies. Includes entries for WALE, YUGOSLAVIA, ROMANIA, SARDINIA, SCOTLAND, SPAIN, SWEDEN, ESTONIA.

Table with columns for country codes (FINLAND), call numbers, and frequencies. Includes entries for FINLAND.

Table with columns for country codes (GERMANY (GDR)), call numbers, and frequencies. Includes entries for GERMANY (GDR).

Table with columns for country codes (THE NETHERLANDS, NORTHERN IRELAND, NORWAY), call numbers, and frequencies. Includes entries for THE NETHERLANDS, NORTHERN IRELAND, NORWAY.

Table with columns for country codes (ROMANIA, SARDINIA, SCOTLAND, SPAIN, SWEDEN), call numbers, and frequencies. Includes entries for ROMANIA, SARDINIA, SCOTLAND, SPAIN, SWEDEN.

Table with columns for country codes (EUROPEAN U.S.S.R., BYELLO RUSSIA), call numbers, and frequencies. Includes entries for EUROPEAN U.S.S.R., BYELLO RUSSIA.

Table with columns for country codes (FRANCE), call numbers, and frequencies. Includes entries for FRANCE.

Table with columns for country codes (GREECE, GUERNSEY, HUNGARY), call numbers, and frequencies. Includes entries for GREECE, GUERNSEY, HUNGARY.

Table with columns for country codes (POLAND), call numbers, and frequencies. Includes entries for POLAND.

Table with columns for country codes (SWEDEN, ESTONIA), call numbers, and frequencies. Includes entries for SWEDEN, ESTONIA.

Table with columns for country codes (EUROPEAN U.S.S.R., BYELLO RUSSIA), call numbers, and frequencies. Includes entries for EUROPEAN U.S.S.R., BYELLO RUSSIA.

Table with columns for country codes (FRANCE), call numbers, and frequencies. Includes entries for FRANCE.

Table with columns for country codes (GREECE, GUERNSEY, HUNGARY), call numbers, and frequencies. Includes entries for GREECE, GUERNSEY, HUNGARY.

Table with columns for country codes (POLAND), call numbers, and frequencies. Includes entries for POLAND.

Table with columns for country codes (SWEDEN, ESTONIA), call numbers, and frequencies. Includes entries for SWEDEN, ESTONIA.

Table with columns for country codes (EUROPEAN U.S.S.R., BYELLO RUSSIA), call numbers, and frequencies. Includes entries for EUROPEAN U.S.S.R., BYELLO RUSSIA.

Table with columns for country codes (FRANCE), call numbers, and frequencies. Includes entries for FRANCE.

Table with columns for country codes (GREECE, GUERNSEY, HUNGARY), call numbers, and frequencies. Includes entries for GREECE, GUERNSEY, HUNGARY.

Table with columns for country codes (POLAND), call numbers, and frequencies. Includes entries for POLAND.

Table with columns for country codes (SWEDEN, ESTONIA), call numbers, and frequencies. Includes entries for SWEDEN, ESTONIA.

Table with columns for country codes (EUROPEAN U.S.S.R., BYELLO RUSSIA), call numbers, and frequencies. Includes entries for EUROPEAN U.S.S.R., BYELLO RUSSIA.

Table with columns for country codes (GERMANY (FRG)), call numbers, and frequencies. Includes entries for GERMANY (FRG).

Table with columns for country codes (GERMANY (FRG)), call numbers, and frequencies. Includes entries for GERMANY (FRG).

Table with columns for country codes (POLAND), call numbers, and frequencies. Includes entries for POLAND.

Table with columns for country codes (SWEDEN, ESTONIA), call numbers, and frequencies. Includes entries for SWEDEN, ESTONIA.

Table with columns for country codes (EUROPEAN U.S.S.R., BYELLO RUSSIA), call numbers, and frequencies. Includes entries for EUROPEAN U.S.S.R., BYELLO RUSSIA.

Table with columns for country codes (GERMANY (FRG)), call numbers, and frequencies. Includes entries for GERMANY (FRG).

Table with columns for country codes (GERMANY (FRG)), call numbers, and frequencies. Includes entries for GERMANY (FRG).

Table with columns for country codes (POLAND), call numbers, and frequencies. Includes entries for POLAND.

Table with columns for country codes (SWITZERLAND), call numbers, and frequencies. Includes entries for SWITZERLAND.

Table with columns for country codes (EUROPEAN U.S.S.R., BYELLO RUSSIA), call numbers, and frequencies. Includes entries for EUROPEAN U.S.S.R., BYELLO RUSSIA.

UA6AJG	86,337	281	56	103	UBSMDD	339,768	700	66	168	LU1EWL	14,896	137	14	24	ST. VINCENT					FRANCE	3,196,935	3046	121	336
UA3EZ	70,022	293	42	115	UBSMFE	202,440	537	59	191	LU2DPW	1,368	24	6	13	VP2SX	4,859,777	4931	107	296	F3TV	1,277,930	2641	67	168
UA3VFI	59,740	259	44	101	UBSMFP	192,402	515	53	136						F79WARC	374,472	869	57	111	GERMANY (FRG)	3,250,098	3081	115	318
UA1DF	51,392	160	48	98	UTSHF	154,869	450	55	154						DL8AA	2,553,780	2342	125	340	DL8CM	1,713,480	1846	106	287
UV3AP	45,932	218	35	101	UBSQIA	125,860	489	39	116						DL8BW	999,462	1353	89	225	DL6BN	343,312	990	53	119
UA3LAB	25,802	114	39	94	UYSTE	97,361	406	43	124						DL6ER	128,949	360	56	103	GERMANY (GDR)	1,265,192	1606	97	237
RA3PGC	4,466	66	10	20	UBSMFT	86,200	289	54	114						DM2CDL	1,108,968	1672	95	233	DM4UG	1,001,147	1346	88	241
UA6AKB	21,942	91	38	68	UBSMLV	77,090	319	39	91						DM3GM	1,001,147	1346	88	241	DM4IH	336,141	886	57	164
UA3TAG	17,353	123	31	46	UBSMAM	65,520	326	31	86						DM4RA	207,844	927	55	127	DM5IG	19,152	139	29	47
UA4IU	14,647	69	31	66	UBSMBF	51,480	251	35	97						DM3YL	3,000	58	14	36	HUNGARY	3,220,176	3530	123	315
UA3GO	6,901	57	26	41	UBSMDP	30,175	135	32	53						HG6V	1,340,688	1712	98	274	HA7KLG	1,038,096	1563	92	232
UV3NG	2,665	39	17	24	UBSMLR	24,054	127	34	80						HA8KYH	939,300	1485	89	214	HA8YZZ	925,298	1408	82	225
UA1AWD	173,826	703	31	80	UBSMAV	23,300	159	27	73						HA1KZZ	783,510	1377	82	212	HA1KSA	746,289	1244	86	217
UA3TDK	114,762	576	25	68	UBSMEW	14,420	144	20	52						HA8KLE	682,722	1126	84	198	HA2KZR	566,280	1130	72	170
UA3AGF	104,400	451	34	82	UBSMDL	13,038	113	22	62						HA8KVB	555,220	1092	70	160	HA7KLC	487,529	1122	74	183
UA4FCZ	70,380	327	27	65	UBSMDV	9,322	66	21	38						HA8KLV	452,922	930	72	180	HA8KZK	362,766	914	53	153
UA4CH	55,110	217	20	46	UBSMDW	5,304	49	21	31						HA8KZV	349,672	761	69	149	HA8KXG	321,856	755	58	156
UA3EX	36,144	251	23	49	UBSMDX	425,280	1410	31	89						HA8KHW	305,996	648	71	156	HA8KZS	300,756	752	62	151
UA6AJF	5100	52	17	33	UBSMDY	154,631	564	28	73						HA8KZT	282,072	644	68	151	HA1KZU	271,110	692	63	147
UV3JM	1,239	31	9	12	UBSMEZ	96,985	544	26	59						HA8KZV	246,078	728	51	135	HA8KHC	207,710	692	63	147
UA4CM	75	25	1	2	UBSMEB	92,136	510	26	62						HA8KZV	178,816	603	52	124	HA8KAI	178,816	603	52	124
UA6LFX	125,244	762	23	48	UBSMEC	46,104	300	19	49						HA8KZV	155,973	855	41	120	HA8KLL	113,096	419	45	89
UV3HY	115,720	547	26	62	UBSMEF	37,293	219	28	65						HA8KZV	91,091	453	34	109	HA8KJA	85,800	324	47	85
UA1QAU	69,417	391	24	57	UBSMEG	37,230	198	20	53						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA6BXJ	49,345	346	23	48	UBSMEH	31,482	297	15	39						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA6AJD	47,740	371	19	51	UBSMEI	702	28	7	6						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA4HDZ	24,888	200	19	42	UBSMEJ	527	11	6	11						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA3XJ	147,157	691	31	70	UBSMEK	132	11	3	1						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA4NAM	124,525	637	23	62	UBSMEV	93,700	504	27	73						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA1CAI	111,628	640	24	62	UBSMEW	19,152	152	19	37						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UV6CV	87,808	443	29	69	UBSMEY	7,029	111	11	28						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA4HDZ	74,368	372	21	62	UBSMEZ	1,040	20	8	12						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA3TBO	66,649	337	26	57	UBSMEB	161,852	670	33	81						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA1ZCZ	63,840	449	24	56	UBSMEC	148,785	645	30	75						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA3QAQ	58,707	232	30	69	UBSMEF	74,704	338	28	64						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA3SEJ	50,560	326	22	58	UBSMEG	72,450	469	26	49						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA1AJ	40,271	345	22	55	UBSMEH	58,400	423	25	55						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA3WBA	38,280	154	23	32	UBSMEI	57,300	420	21	54						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA4LM	37,450	252	20	50	UBSMEJ	57,300	420	21	54						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA6AXX	28,348	181	23	53	UBSMEK	45,900	370	20	52						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA3ADQ	24,924	225	17	45	UBSMEV	41,850	193	29	64						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA3ECJ	17,391	180	15	36	UBSMEW	30,954	230	25	42						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA1ZDB	14,842	152	14	27	UBSMEY	19,520	218	17	44						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA4NBH	8,692	158	10	31	UBSMEZ	4,841	61	15	32						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA4PGO	5,472	62	9	29	UBSMEB	79,953	486	23	64						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA6AKK	42,284	381	15	57	UBSMEC	61,539	443	18	55						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA3XAW	21,420	227	14	49	UBSMEF	61,538	439	17	60						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA3AGX	11,713	165	11	42	UBSMEG	38,592	381	15	49						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA6UX	7,181	104	10	33	UBSMEH	28,025	306	15	44						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UX3XAM	506	19	7	23	UBSMEI	25,272	300	13	41						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
UA4CDC	1,357	58	6	17	UBSMEJ	12,852	187	14	40						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
					UBSMEK	8,055	126	11	34						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
					UBSMEV	3,354	52	10	29						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
					UBSMEW	59,422	611	18	56						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
					UBSMEY	40,761	449	13	50						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
					UBSMEZ	23,166	429	11	43						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
					UBSMEB	2,848	65	32	69						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
					UBSMEC	3,555	100	6	25						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
					UBSMEF	840	38	5	15						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
					UBSMEG	782	26	5	18						HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
															HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
															HA8KZV	85,800	324	47	85	HA8KZV	85,800	324	47	85
															HA8KZV									

UK3XAB	1,568,160	2001	90	262
UK4WAB	1,492,224	1814	111	291
UK1AFA	848,292	1530	90	227
UK3UAA	598,640	1093	74	206
UK3DAU	547,932	970	84	224
UK4CAA	535,780	1034	77	224
UK3ABF	532,926	1139	68	210
UK4LAA	354,816	835	67	164
UK3WAC	56,400	431	72	75

KARELO-FINNISH REPUBLIC
UK1NAA 454,020 1130 63 147

LATVIA
UK26DZ 959,420 1313 98 258
UK2GAB 5,040 80 16 44

LITHUANIA
UK288B 3,451,896 2593 147 420
UK2PCR 2,585,856 2277 144 408
UK2BAS 2,777,544 2486 120 342
UK2PAP 2,044,620 1951 120 324
UK2PAQ 925,140 1396 85 255
UK2PAT 426,636 847 75 177
UK2PRC 400,200 754 79 197
UK2BBE 337,428 743 75 177
UK2BAF 193,479 891 47 96
UK2PAD 179,467 545 53 144
UK2BAB 165,396 542 55 124
UK2BBF 159,528 549 50 134
UK2BCG 74,661 536 33 90
UK2BAT 23,560 158 24 71
UK2PAQ 7,714 125 16 42

UKRAINE
UK5IAZ 3,010,172 3812 135 338
UK5QBE 1,853,610 2150 110 301
UK5QAA 618,728 1093 84 232
UK5MBE 441,045 1027 69 174
UK5MBQ 419,253 1012 61 176
UK5LAN 242,614 816 48 130
UK5IEG 129,440 478 47 113
UK5MDI 80,400 670 38 82
UK5LAK 26,600 158 27 49
UK5HAB 18,963 147 21 42
UK5UDX 8,800 77 21 34
UK5MAG 7,552 45 27 37

SOUTH AMERICA

URUGUAY
CX7CO 413,001 1318 32 77

VENEZUELA
YX5A 2,747,628 2726 101 241

**MULTI-OPERATOR
MULTI-TRANSMITTER
NORTH AMERICA**

UNITED STATES

N2AA	8,542,056	4677	167	461
K6LX	6,566,430	4018	162	404
K3WW	6,467,632	3727	162	442
N9MM	5,951,372	3523	170	432
K8RF	5,715,264	3668	166	378
W3FA	5,683,174	3344	152	422
W3MM	5,650,940	3395	155	425
W3RJ	5,274,060	2988	158	452
W3LPL	5,029,056	3024	150	426
N6ND	4,873,765	3517	147	338
N3RD	4,467,442	2721	154	420
K2UA	4,152,650	2740	141	388
W3GM	3,114,496	2134	145	367
N2RM	2,442,421	1774	127	352
N3LR	1,001,844	1047	98	234
W3GU	528,045	570	101	228

ALASKA
KL7Y 4,464,829 5470 110 213

BRITISH VIRGIN ISLANDS
VP2VEQ 4,674,108 4930 102 279

CAYMEN ISLANDS
ZF2AD 2,274,932 3334 92 206

GUATEMALA
TG8AA 2,411,520 3309 97 223

ASIA

JAPAN
JA3YKC 4,478,684 3311 158 318
JA3YBF 4,298,070 3630 115 307
JA2YEF 1,993,572 2178 114 210
JA1YXP 1,821,204 2045 114 194
JA7YAA 1,736,407 2018 120 222
JA1YHA 740,955 1120 102 133
JA3YOD 522,554 804 93 134
JH1YDT 486,746 900 74 120
JA4YQO 360,672 636 79 129

EUROPE

GERMANY (FRG)
DL8PG 5,846,726 5476 142 409
DL8KF 5,127,720 4803 133 386

FINLAND
OH1AA 5,375,696 4524 145 393

POLAND
SP3KEY 226,520 348 77 203

ROMANIA
YD8AJG 2,301,210 3452 125 280

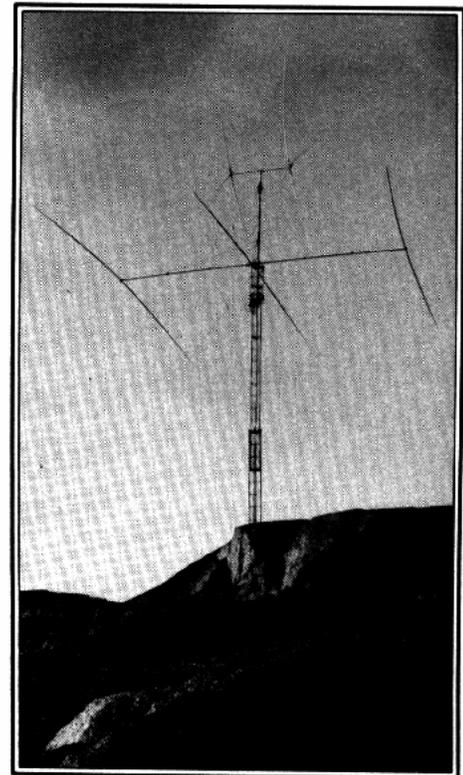
SWEDEN
SK2KW 7,101,325 6416 146 381
SK5AJ 6,019,072 5528 143 369

SOUTH AMERICA

ARGENTINA
LU7X 915,400 1580 50 149

NETHERLAND ANTILLES
FJ2CC 20,045,952 11786 154 422

TRINIDAD
9Y4W 16,835,172 10380 148 395



LA1EE QTH.

A BETTER BALUN

from Barker & Williamson, Inc.

BROAD BAND BALUNS

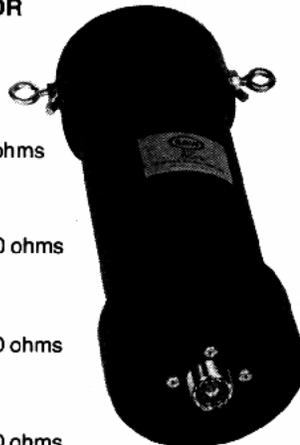
- Power Rating 2.5 KW-5 KW PEP
- Frequency Range 3.5-30 MHz
- SO 239 CONNECTOR

Types Available

- Model BC-1**
50 ohms unbalanced to 50 ohms balanced
- Model BC-2**
50 ohms unbalanced to 200 ohms balanced
- Model BC-3**
50 ohms unbalanced to 300 ohms balanced
- Model BC-4**
50 ohms unbalanced to 600 ohms balanced

See your dealer or write:

Barker & Williamson, Inc.
10 Canal Street
Bristol, Pa. 19007



CIRCLE 5 ON READER SERVICE CARD

Say You Saw It In CQ

TIMETRAC

By Comus the microcomputer controlled appointment clock

THE ONLY CLOCK OF IT'S KIND NONE CAN COMPARE

for limited time only \$ **49⁹⁵**

plus \$2.00 shipping and handling.

NOT A KIT Reg. Price 79.95

TIME-TRAC SOLD AND DISTRIBUTED BY HAL-TRONIX. DEALERS WELCOME.



TIMETRAC FEATURES

- Sleek modern styling to complement any home or office decor.
- Tells the time.
- Tells the date and year.
- Up-timer to 60 minutes, 59 seconds with pause.
- Alarm to ring at the same time, everyday.
- Daily appointment sets appointments for the next 23 hours, 59 minutes.
- Future appointments up to one year.
- Dimmer switch for display.
- Memory will hold up to 30 appointments.
- Lithium power cell to retain memory during power outage.
- Appointments entered out of chronological order will be stored in chronological order.
- Colon flashes once each second.
- A.M./P.M. indicator.
- Plugs into any wall outlet.
- Easy to read vacuum fluorescent display.
- Extremely accurate quartz crystal clock.



SEND .15c STAMP OR S.A.S.E. FOR INFORMATION AND FLYER ON OTHER HAL-TRONIX PRODUCTS TO PHONE ORDERS IN 1-313-285-1782 "HAL" HAROLD C. NOWLAND W8ZXH

Hal-Tronix

P.O. BOX 1101 DEPT. C
SOUTHGATE, MICH. 48195

CIRCLE 50 ON READER SERVICE CARD

WORLD

QRP SECTION

5 WATTS OR LESS INPUT

64BUE	A	481,347	923	63	174
UB5CI	"	402,753	734	79	229
Y73L	"	374,861	532	87	226
(opr. N1YU)					
OK1DKW	"	304,194	861	64	178
SM5SCT	"	258,365	549	68	175
WA4LDF	"	188,055	337	71	128
W5YZ	"	163,348	308	64	130
WA6POC	"	143,577	393	47	82
VE5JQ	"	70,512	299	44	60
K8DU	"	69,823	199	43	88
N2GC	"	60,032	178	37	91
WA2JOC	"	55,822	146	41	96
UB5AAL	"	50,552	219	41	101
KX6MY	"	45,198	170	48	45
HP1XAT	"	44,044	400	25	27
UC2ACT	"	26,400	144	29	71
KQ4A	"	22,477	94	36	55
DM2DTG	"	14,706	142	25	66
WBVSK	"	10,877	59	15	24
UA6AKT	"	10,350	88	21	48
JR110S/2	"	9,845	82	25	30
K2FH	"	9,690	63	20	37
AB5N	"	9,568	84	26	26
N5ARB	"	7,480	55	24	31

KL7IBT	"	6,750	56	22	23
SM7CZC	"	3,080	36	18	26
SM3BP	"	1,537	29	11	18
WA2ZWH	28	71,295	258	27	70
JF1VVB	"	47,784	250	21	45
UM6B90	"	19,904	193	16	32
W1PWK	"	16,182	92	17	45
OK1MDK	"	12,366	83	19	35
DK2BJ/A	"	10,841	120	15	22
N8QR	"	9,477	94	16	23
PABANK	"	9,472	102	14	23
VE3LJU	"	9,240	108	14	26
JE1BOE	"	1,323	65	14	23
K1CGJ	21	75,256	289	26	66
JR6KRJ	"	56,019	276	24	47
SM5KAS	"	35,955	359	14	33
WB4BDB	"	24,540	145	20	40
J9A9UD	"	22,528	148	17	27
OK1JCH	"	3,256	55	11	21
SM7BNG	"	2,784	60	8	21
JH8DEH	"	2,392	39	11	12
WA7HDI	"	1,133	28	6	5
WB4YFF	"		127	15	4
CGA	"		62,228	384	25
UB5KBF	14		42,168	178	25
K3FN	"		5,776	95	10
DM2BPN	"		5,700	132	7
DM2FEI/P	7		5,203	79	8
OK1DCP	"		1,560	38	7
OK2BMA	"		497	26	4
JJ11NO	"		1,122	70	4
Y0ZCBZ	3.5		240	15	3
OK1MNV	"		2	2	2
JF19NV	1.8				

CHECK LOGS

Our deepest thanks to the following stations who sent in Check Logs:

A13E	AL7O	DA1UV	DM2ABL
DM2ACF	DM2ADC	DM2AHB	DM2ACX
DM2BML	DM2BTD	DM2BWA	DM2BWK
DM2CBA	DM2CKD	DM2CMF	DM2CDB
DM2DGE	DM2DZH	DM2FCI	DM2FII
DM2FVI	DM2FVI	DM2GDL	DM2JXJ
DM3EA	DM3FC	DM3OV	DM3PF
DM3SF	DM3PF	DM3PEY	DM3SF
DM3SBM	DM3TYF	DM3WPL	DM3ZUE
DM4CM	DM4YSL	DM4ZC	DM4ZCF
DM5ZDL	GU3MBS/M	I0YWJ	IT9-72013
LA2AV	LA2IE	LA3BO	LA3FE
LA4AT	LA5VJ	LA5YJ	LA7SP
LA7XB	LA8CJ	LA8SE	LZ1AM
LZ1KDP	LZ1MT	LZ1QG	LZ1RU
LZ1UA	LZ1YF	N6OB	OH2BLD
OH2MM	OH5LJ	OH5GD	OH6GQ
OH6RE	OH6MM/2	OK1DMP	OK1IAR
OK1US	OK2BMA	OK2SWD	OK3KC
OL6AWY	OX3RA	OY7ML	OZ1GIC
OZ2JZ	OZ8SF	OZ6XT	OZ7XU
PA0PLM	PA50VRC	PT2BW	PT7AW
PY2BTR	PY2CPU	PT7AW	RA3XBN
SM2COR	SM2JFO		

SM4ASI	SM4AZD	SM5AFE
SM5EVQ	SM6AVD	SM6AYM
SM6JNW	SM7QY	SM7TV
SP2JXM	SP4KAI	SP5AD
SP5ATO	SP5CFD	SP5KVV
SP8BVO	SP9CDA	SP9CTW
SP9DTH	UA1AHQ	UA1OSM
UA2FEA	UA3ABI	UA3ACJ
UA3AIT	UA3ALJ	UA3DDC
UA3DER	UA3DGI	UA3DLD
UA3DVT	UA3DLS	UA3DTP
UA3PDA	UA3PFA	UA3QBP
UA3TDP	UA3UBN	UA43VZ
UA44AN	UA4HJ	UA4HJ
UA4HEJ	UA4HJ	UA4NEJ
UA4NET	UA4PAU	UA4RT
UA4YB	UA6AAO	UA6ABF
UA6ABS	UA6AKO	UA6AWE
UA6LFO	UA6LXZ	UA6XAE
UA9CES	UA9FCA	UA9MG
UA9OBG	UA9OBL	UA9SDI
UA9SFP	UA9SFP	UA9UOB
UA9UOF	UA9URS	UA9XS
UA0ABC	UA0A	UA0KBC
UA0LAQ	UA0QCA	UB5AAF
UB5ABY	UB5EF	UB5EU
UB5HCU	UB5IAN	UB5IBR
UB5IIA	UB5JKR	UB5MBP
UB5QCP	UB5QEB	UB5RAF
UB5SBM	UB5UBI	

UB5UBU	UB5UCH	UB5UD*
UB5UDG	UB5UDH	UB5YE
UB5ZA	UB5ZAT	UB5ZDK
UC2CFA	UC2WBJ	UK10AZ
UK2BAG	UK2TAD	UK3AAK
UK3DBV	UK3MAA	UK3WAV
UK4HBB	UK5EAE	UK5IAI
UK6ABC	UK6HCZ	UK6LWW
UK7TAA	UK9CCR	UK9UAD
UK9XAA	UK0KAD	UK0LAB
UL7BBJ	UL7GBF	UP2AW
UP2BCS	UP2BV	UQ2CR
UQ2GGS	UQ2MU	UQ2PJ
UT5DL	UT5LF	UT5SY
UV3DN	UV4LH	UV3GL
UV3MW	UV4NW	UV6CF
UY5GG	UY5YB	UY5YT
K7SS/VE7	VK3XB	W1OCV
W3CV	W9RX	WB2MCB
WD9CJ	YO4ATW	YO4KRE
YO4ZJ	YO5AFJ	YO5AY
YO5BJW	YO6EZ	YO6XA
YU3TRI	YU4RS-6643	YU4-17867
YU7ADA	ZS5XT	

Addendum: Bill, K5GA, was inadvertently left out of the phone results. His score was 2,064,160 points, 1513 QSO's, 135 zones, 350 DXCC. Our apologies.

Disqualifications:
W6VPH: Excessive duplicates and broken calls.
ZK4BW: Excessive duplicates.



THE CONTEST

*'Twas a week till the contest and all thru the town
All the hams were preparin' with nary a frown.
We cleaned up our stations and got lots of rest
'Cause the contest demanded the peak of our best.*

*I was ready this year. I was willing and eager.
For the last fifteen years my scores had been meager.
This year would be different, I'd taken a vow.
I knew I could win it if Fate would allow.*

*The first year I tried TVI did me in
And I had to leave off where I'd planned to begin.
So I filtered and bypassed and shielded and grounded
Till I got rid of spurs and was no longer hounded.*

*The very next year my poor transmitter died.
The six one four six in the final got tried.
So I stocked up on spares of all sorts of parts;
Now the size of my junk box will gladden your hearts.*

*The third year I tried and I got on the air!
But my skill in the contest was ranked less than fair.
So I dug out my key and brushed up on the code
And I checked into nets in the SSB mode.*

*As each year went by, something different went wrong.
Each contest I tried, Murphy's Law was along.
I couldn't admit it to family or friend,
But this was my limit—I'd not try again.*

*There's no fighting Fate, some things aren't meant to be.
If I failed again then from contests I'd flee.
But I wasn't worried, I'd come out on top.
With fifteen years practice I just couldn't flop!*

*My station was perfect. There was naught that it lacked.
That I'd win this year's contest I knew for a fact.
I'd studied and practiced like a second career.
My whole goal in life was to win it this year.*

*I'd spent every evening and half of the night
Working DX till the dawn's early light.
I'd fine tuned my skills to the highest degree
And I'd studied the rules of the F C and C.*

*I'd harvest the contacts and reap such a score
That my record would stand for a dozen years more.
I dreamed of my conquest all night in my bed,
For little I knew of my troubles ahead!*

*The next morning's mail hit me just like a shock.
Uncle Charlie had written (on his famous pink stock)
A letter of warning (it's called a citation)
For working DX from an expired station.*

*I started at my ticket and found it was true.
My license had expired. I forgot to renew.
And then as I wept salty tears in my beer,
My wife said, "Don't cry dear. There's always next year."*

By Glen Charnock, WB6JKM