SDR-1000 CAT COMMAND DICTIONARY

GENERAL INFORMATION

A CAT command consists of a prefix, a parameter list, and a terminator. Commands fall into one of three categories: Get (read) commands that request status information from the transceiver; Set (write) commands that change transceiver status; and Answer (response) commands that return information requested in a Get command or error codes. A correctly executed Set command does not return an Answer command.

The terminator for all CAT commands is the semicolon (;). CAT commands are not case sensitive. Get and Set commands must contain the correct number of parameter characters as shown in the accompanying tables. Most Get commands are simply the prefix followed by a termination, but there are special cases where a Get command will require parameters.

Kenwood Compatible Commands

| AG Sets | or reac | ds the A | F Gain | thumby | wheel co | ontrol | | | | |
|---------|--|----------|----------|----------|----------|-----------|---------|---------|----------|--|
| Get | AG | P1 | ; | | | | | | | |
| Set | AG | P1 | P2 | P2 | P2 | ; | | | | |
| Answer | AG | P1 | P2 | P2 | P2 | ; | | | | |
| Notes | P1 = 0 | for mai | n transc | eiver, 1 | for futu | re sub re | ceiver. | P2 = 00 | 0 to 255 | |
| | (scaled 0 to 100 in software). An Set value of 127 = 50 on the AF Gain | | | | | | | | | |
| | thumbwheel. Also see ZZAG. | | | | | | | | | |

| BD Mov | es the t | ransceiv | ver dow | n one b | and | | | | | |
|--------|------------------|----------|---------|---------|-----|--|--|--|--|--|
| Get | | | | | | | | | | |
| Set | BD | ; | | | | | | | | |
| Answer | | | | | | | | | | |
| Notes | BD is write-only | | | | | | | | | |

| BU Mov | es the t | ransceiv | ver up o | ne band | d | | | |
|--------|----------|----------|----------|---------|---|--|--|--|
| Get | | | | | | | | |
| Set | BU | ; | | | | | | |
| Answer | | | | | | | | |
| Notes | BU is | write-on | ly | | | | | |

| FA Sets | or read | s VFO | A frequ | ency | | | | | | |
|---------|---------|--|---------|------|----|----|----|----|----|----|
| Get | FA | ; | | | | | | | | |
| Set | FA | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 |
| | | P1 | P1 | ; | | | | | | |
| Answer | FA | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 |
| | | P1 | P1 | ; | | | | | | |
| Notes | | P1 = frequency in Hz (11 digits). Blank digits must be 0. Example: | | | | | | | | |
| | 14,320 | 14,320.150 = 00014320150. | | | | | | | | |

| FB Sets | or reads | VFO I | 3 freque | ncy | | | | | | |
|---------|----------|---------------------------|----------|----------|----------|----------|---------|--------|-------|----|
| Get | FB | ; | | | | | | | | |
| Set | FB | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 |
| | | P1 | P1 | ; | | | | | | |
| Answer | FB | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 |
| | | P1 | P1 | ; | | | | | | |
| Notes | P1 = fr | equency | in Hz (| 11 digit | s). Blan | k digits | must be | 0. Exa | mple: | |
| | 14,320 | 14,320.150 = 00014320150. | | | | | | | | |

| FR Sets | or read | ls the tra | ansceive | er receiv | ve VFO | | | | | |
|---------|---------|------------|----------|-----------|-----------|---------------------|-----------|--------|--------|------|
| Get | FR | ; | | | | | | | | |
| Set | FR | P1 | ; | | | | | | | |
| Answer | FR | P1 | ; | | | | | | | |
| Notes | | for thir | | | oility. P | $1 = 0 \sin \theta$ | nce the S | SDR-10 | 00 VFO | A is |
| | always | the reco | eive VF | Э. | | | | | | |

| FT Sets | or read | s the tra | ansceive | er trans | mit VF(|) | | | | |
|---------|--|-----------|----------|----------|---------|---|--|--|--|--|
| Get | FT | ; | | | | | | | | |
| Set | FT | P1 | ; | | | | | | | |
| Answer | FT | P1 | ; | | | | | | | |
| Notes | Notes $P1 = 0$ for VFO A, 1 for VFO B. | | | | | | | | | |

| FW Sets | or rea | ds the D | SP rece | ive filte | r width | l | | | | |
|---------|--|----------|---------|-----------|---------|---|--|--|--|--|
| Get | FW | ; | | | | | | | | |
| Set | FW | P1 | P1 | P1 | P1 | ; | | | | |
| Answer | FW | P1 | P1 | P1 | P1 | ; | | | | |
| Notes | Notes FW only accepts SDR-1000 filter widths. See ZZFI for values. | | | | | | | | | |

| GT Sets | or read | ls the A | GC tim | e consta | nt thun | nbwheel | contro | 1 | | |
|---------|---|----------|--------|----------|---------|---------|--------|---|--|--|
| Get | GT | ; | | | | | | | | |
| Set | GT | P1 | P1 | P1 | ; | | | | | |
| Answer | GT | P1 | P1 | P1 | ; | | | | | |
| Notes | Notes P1: Fixed = 000 , Long = 001 , Slow = 002 , Med = 003 , 004 = Fast. | | | | | | | | | |

| ID Read | ls the tr | ansceiv | er ID nu | ımber | | | | | | | |
|---------|---------------------------------------|--|----------|-------|---|--|--|--|--|--|--|
| Get | ID | ; | | | | | | | | | |
| Set | | | | | | | | | | | |
| Answer | ID | P1 | P1 | P1 | ; | | | | | | |
| Notes | | P1 defaults to 019 (TS-2000). The SDR-1000 id code (900) may be selected | | | | | | | | | |
| | remotely using ZZID. ID is read-only. | | | | | | | | | | |

| IF Read | s the tra | ansceive | er status | <u> </u> | | | | | | | | | |
|---------|-----------|---|-----------|----------|-----------|----------|-----------|------------|---------|-------|--|--|--|
| Get | IF | ; | | | | | | | | | | | |
| Set | | | | | | | | | | | | | |
| Answer | IF | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 | | | |
| | P1 | P1 | P2 | P2 | P2 | P2 | P3 | P3 | P3 | P3 | | | |
| | P3 | | | | | | | | | | | | |
| | P11 | | | | | | | | | | | | |
| Notes | P2 (4 c | P1 (11 characters) VFO A frequency in Hz. Same as FA; P2 (4 characters) Frequency step size expressed in powers of 10 (see ZZST). P3 (6 characters) RIT/XIT frequency (+nnnnn or –nnnnn). | | | | | | | | | | | |
| | , | | | - | | | or –nnn | nn). | | | | | |
| | , | haracte | * | | | | | | | | | | |
| | , | haracte | * | | | | 1 1 0 | | 0 | | | | |
| | | characte | | | | | | | | | | | |
| | ` | characte | , | | | | | | | | | | |
| | ` | character | , | | | , | ` | | ing). | | | | |
| | , | characte | | _ | | | _ | | | | | | |
| | P10 (1 | characte | er) VFO | Split st | atus. Sa | me as F | R (alwa | ys 0). | | | | | |
| | P11 (1 | characte | er) Scan | status. | Not imp | olemente | ed, defai | ılted to (| Э. | | | | |
| | P12 (1 | characte | er) VFO | Split st | atus. Sai | me as F | Γ. | | | | | | |
| | P13 (1 | characte | er) CTC | SS tone. | . Not us | ed, defa | ulted to | 0. | | | | | |
| | P14 (2 | characte | ers) Moi | e tone c | ontrols. | Not use | ed, defa | ulted to | 00. | | | | |
| | | P14 (2 characters) More tone controls. Not used, defaulted to 00. P15 (1 character) Shift status. Not used, defaulted to 0. | | | | | | | | | | | |
| | P9 wil | l return a | a space i | f a non- | Kenwoo | od mode | is selec | ted on tl | ne SDR- | 1000. | | | |

| MD Sets | or reac | ds the t | ransceiv | er oper | ating m | ode | | |
|---------|---------|------------------|----------|---------|---------|-----|--|--|
| Get | MD | ; | | | | | | |
| Set | MD | P1 | ; | | | | | |
| Answer | MD | P1 | ; | | | | | |
| Notes | P1 valu | ues: | | | | | | |
| | 1 = LS | В | | | | | | |
| | 2 = US | $^{\mathrm{SB}}$ | | | | | | |
| | 3 = CV | VU | | | | | | |
| | 4 = FN | IN | | | | | | |
| | 5 = AN | Л | | | | | | |
| | 6 = RT | TY | | | | | | |
| | 7 = CV | VL | | | | | | |
| | | | | | | | | |

| MG Set | MG Sets or reads the Microphone Gain thumbwheel control | | | | | | | | | | | |
|--------|---|----|----|----|---|--|--|--|--|--|--|--|
| Get | MG | ; | | | | | | | | | | |
| Set | MG | P1 | P1 | P1 | ; | | | | | | | |
| Answer | MG | P1 | P1 | P1 | ; | | | | | | | |
| Notes | P1 = 000 to 100. | | | | | | | | | | | |

| MO Set | s or rea | ds the N | Ionitor | (MON) | status | | | | |
|--------|---------------------------|----------|----------------|-------|--------|--|--|--|--|
| Get | MO | ; | | | | | | | |
| Set | MO | P1 | ; | | | | | | |
| Answer | MO | P1 | ; | | | | | | |
| Notes | P1 = 0 for on, 1 for off. | | | | | | | | |

| NB Sets | or read | ls the No | oise Bla | nker 1 (| NB1) st | atus | | | | |
|---------|---------|---------------------------|----------|----------|---------|------|--|--|--|--|
| Get | NB | ; | | | | | | | | |
| Set | NB | P1 | ; | | | | | | | |
| Answer | NB | P1 | ; | | | | | | | |
| Notes | P1 = 0 | P1 = 0 for on, 1 for off. | | | | | | | | |

| NT Sets | NT Sets or reads the Automatic Notch Filter (ANF) status | | | | | | | | | | |
|---------|--|---------------------------|---|--|--|--|--|--|--|--|--|
| Get | NT | ; | | | | | | | | | |
| Set | NT | P1 | ; | | | | | | | | |
| Answer | NT | P1 | ; | | | | | | | | |
| Notes | P1 = 0 | P1 = 0 for on, 1 for off. | | | | | | | | | |

| PC Sets | or read | s the PA | A Power | · (PWR) |) status | | | | | |
|---------|---------|--------------------|---------|---------|----------|--|--|--|--|--|
| Get | PC | ; | | | | | | | | |
| Set | PC | P1 | P1 | P1 | ; | | | | | |
| Answer | PC | P1 | P1 | P1 | ; | | | | | |
| Notes | P1 = 0 | P1 = 000 to 100. | | | | | | | | |

| PR Sets | or read | s the Sp | eech C | ompress | sor (CO | MP) sta | itus | | | |
|---------|---------|---------------------------|--------|---------|---------|---------|------|--|--|--|
| Get | PR | ; | | | | | | | | |
| Set | PR | P1 | ; | | | | | | | |
| Answer | PR | P1 | ; | | | | | | | |
| Notes | P1 = 0 | P1 = 0 for on, 1 for off. | | | | | | | | |

| PS Sets | or read | s the Po | wer Bu | tton sta | tus | | | | | |
|---------|---------|--|--------|----------|-----|--|--|--|--|--|
| Get | PS | ; | | | | | | | | |
| Set | PS | P1 | ; | | | | | | | |
| Answer | PS | P1 | ; | | | | | | | |
| Notes | P1: 0 | P1: $0 = \text{Standby}$, $1 = \text{On}$. | | | | | | | | |

| QI Sets | the Qui | ck Save | memor | y (QS) | | | | | | |
|---------|---------|-------------------|-------|--------|--|--|--|--|--|--|
| Get | | | | | | | | | | |
| Set | QI | ; | | | | | | | | |
| Answer | | | | | | | | | | |
| Notes | QI is v | QI is write-only. | | | | | | | | |

| RC Clea | RC Clears the RIT frequency (RIT[0]) | | | | | | | | | |
|---------|--------------------------------------|---|--|--|--|--|--|--|--|--|
| Get | | | | | | | | | | |
| Set | RC | ; | | | | | | | | |
| Answer | | | | | | | | | | |
| Notes | RC is write-only. | | | | | | | | | |

| RT Sets | or read | s the R | IT butto | n statu | S | | | | | |
|---------|---------|---------------------------|----------|---------|---|--|--|--|--|--|
| Get | RT | ; | | | | | | | | |
| Set | RT | P1 | ; | | | | | | | |
| Answer | RT | P1 | ; | | | | | | | |
| Notes | P1 = 0 | P1 = 0 for on, 1 for off. | | | | | | | | |

| RX Sets | the tra | nsceiver | to Rec | eive mo | de (MO | X off) | | | | |
|---------|---------|-------------------|--------|---------|--------|--------|--|--|--|--|
| Get | | | | | | | | | | |
| Set | RX | ; | | | | | | | | |
| Answer | | | | | | | | | | |
| Notes | RX is | RX is write-only. | | | | | | | | |

| SH Sets | or reads | s the vai | riable D | SP Filte | er high f | frequen | cy | | |
|---------|----------|-----------|----------|----------|-----------|----------|------------|--|--|
| Get | SH | ; | | | | | | | |
| Set | SH | P1 | P1 | ; | | | | | |
| Answer | SH | P1 | P1 | ; | | | | | |
| Notes | SSB M | Iodes (U | SB, LS | B, CWU | and CV | VL) in H | I z | | |
| | 00 | = 1400 |) | | | | | | |
| | 01 | = 1600 |) | | | | | | |
| | 02 | = 1800 |) | | | | | | |
| | 03 | = 2000 |) | | | | | | |
| | 04 | = 2200 |) | | | | | | |
| | | = 2400 | | | | | | | |
| | | = 2600 | | | | | | | |
| | | = 2800 | | | | | | | |
| | | = 3000 | | | | | | | |
| | | = 3400 | | | | | | | |
| | | = 4000 | | | | | | | |
| | 11 | = 5000 |) | | | | | | |
| | Dan I | |) | | DD14 | G 4 3 6 | | | |
| | | Aodes (A | | B, FMN | DRM, | SAM) | | | |
| | | = 2500 | | | | | | | |
| | | = 3000 | | | | | | | |
| | | = 4000 | | | | | | | |
| | 03 | = 5000 |) | | | | | | |
| | SH has | no effe | ct in RT | TY, PS | K, or SP | EC. | | | |

| SL Sets | or read | s the va | riable E | SP filte | r low fr | equenc | y | | |
|---------|---------|---------------|-----------------|-----------|----------|----------|----|--|--|
| Get | SL | ; | | | | | | | |
| Set | SL | P1 | P1 | ; | | | | | |
| Answer | SL | P1 | P1 | ; | | | | | |
| Notes | SSB M | lodes (U | SB, LS | B, CWU | and CV | VL) in H | Iz | | |
| | 00 | = 0 | | | | | | | |
| | 01 | = 50 | | | | | | | |
| | 02 | = 100 | | | | | | | |
| | 03 | = 200 | | | | | | | |
| | 04 | = 300 | | | | | | | |
| | 05 | = 400 | | | | | | | |
| | 06 | = 500 | | | | | | | |
| | 07 | = 600 | | | | | | | |
| | 08 | = 700 | | | | | | | |
| | | = 800 | | | | | | | |
| | 10 | = 900 | | | | | | | |
| | 11 | = 1000 |) | | | | | | |
| | DCD Y | Madas (M | M DCI | D EMINI | DDM | C A M/) | | | |
| | | Aodes (A = 0) | IMI, DSI | D, FIVIIN | , DKM, | SAWI) | | | |
| | | - 0 = 100 | | | | | | | |
| | | = 200 | | | | | | | |
| | | = 500 | | | | | | | |
| | 03 | _ 500 | | | | | | | |
| | SL has | no effe | ct in RT | TY, PSI | K, or SP | EC. | | | |

| SM Rea | ds the S | S-Meter | • | | | | | | | |
|--------|----------|---------|----------|-----------|---------|--------|----------|----------|-----------|--------|
| Get | SM | ; | | | | | | | | |
| Set | | | | | | | | | | |
| Answer | SM | P1 | P2 | P2 | P2 | P2 | ; | | | |
| Notes | P1 = 0 | for ma | in trans | ceiver. | | | | <u> </u> | | |
| | P2 = 0 | 0000 to | 0030 wł | nere 001: | 5 = S9. | Curren | t code 1 | needs in | nprovemei | nt for |
| | readin | gs abov | e S9. | | | | | | | |
| | SM is | read-on | ıly. | | | | | | | |

| SQ Sets | or read | ls the So | uelch (| SQL) th | umbwh | eel con | trol | | | | |
|---------|--|-----------|---------|---------|-------|---------|------|--|--|--|--|
| Get | SQ | P1 | ; | | | | | | | | |
| Set | SQ | P1 | P2 | P2 | P2 | ; | | | | | |
| Answer | SQ | P1 | P2 | P2 | P2 | ; | | | | | |
| Notes | P1 = 0 for main transceiver. | | | | | | | | | | |
| | P2 = 000 to 255 (scaled in software to $0 - 160$, $SQ0127$; = 80 on the control. | | | | | | | | | | |

| TX Sets | TX Sets the transceiver to Transmit mode (MOX on) | | | | | | | | | | | |
|---------|---|--|-----------|----------|----------|--------|-----|--|--|--|--|--|
| Get | | | | | | | | | | | | |
| Set | TX | ; | | | | | | | | | | |
| Answer | | | | | | | | | | | | |
| Notes | TX is | TX is write-only. Not totally compatible with Kenwood but is modified to | | | | | | | | | | |
| | mainta | in comp | atibility | with thi | rd-party | softwa | re. | | | | | |

| XT Sets | or read | ls the X | IT statu | S | | | | | | |
|---------|---------|---------------------------|----------|---|--|--|--|--|--|--|
| Get | XT | ; | | | | | | | | |
| Set | XT | P1 | ; | | | | | | | |
| Answer | XT | P1 | ; | | | | | | | |
| Notes | P1 = 0 | P1 = 0 for on, 1 for off. | | | | | | | | |

SDR-1000 Custom Commands

| ZZAG S | Sets or re | ads the | SDR-1 | 000 Au | dio Gair | n contro | ol | | |
|--------|------------|----------|-------|--------|----------|----------|----|--|--|
| Get | ZZAG | ; | | | | | | | |
| Set | ZZAG | P1 | P1 | P1 | ; | | | | |
| Answer | ZZAG | P1 | P1 | P1 | ; | | | | |
| Notes | P1 = 00 | 0 to 100 |). | | | | | | |

| ZZBG | Sets or re | ads the | Band (| Group (1 | HF/VH | F) | | | | |
|--------|------------|---------------------------|--------|----------|-------|------------|--|--|--|--|
| Get | ZZBG | ; | | | | | | | | |
| Set | ZZBG | P1 | ; | | | | | | | |
| Answer | ZZBG | P1 | ; | | | | | | | |
| Notes | P1 = 0 | P1 = 0 for HF, 1 for VHF. | | | | | | | | |

| ZZBI Se | ets or re | ads the | Binaur | al (BIN) |) status | | | |
|---------|-----------|----------|----------|----------|----------|--|--|--|
| Get | ZZBI | ; | | | | | | |
| Set | ZZBI | P1 | ; | | | | | |
| Answer | ZZBI | P1 | ; | | | | | |
| Notes | P1 = 0 | for off, | 1 for on | | | | | |

| ZZBS S | ets or re | ads the | Band S | witch | | | | | |
|--------|-----------|----------|--------|-------|----------------------|--|---------|----------|------|
| Get | ZZBS | ; | | | | | | | |
| Set | ZZBS | P1 | P1 | P1 | ; | | | | |
| Answer | ZZBS | P1 | P1 | P1 | ; | | | | |
| Notes | | 30, 060, | | | 017, 015 GEN), an | | 002 (wł | nen 2 me | eter |

| ZZCL S | ets or re | ads the | CW Pit | tch (Set | up DS | P) | | |
|--------|-----------|-----------|--------|----------|---------|----|--|--|
| Get | ZZCL | ; | | | | | | |
| Set | ZZCL | P1 | P1 | P1 | P1 | ; | | |
| Answer | ZZCL | P1 | P1 | P1 | P1 | ; | | |
| Notes | P1 = 02 | 200 to 12 | 200. | | | | | |

| ZZCP So | ets or re | ads the | Compa | nder (C | MP) bu | tton sta | itus | | |
|---------|-----------|----------|----------|---------|--------|----------|------|--|--|
| Get | ZZCP | ; | | | | | | | |
| Set | ZZCP | P1 | ; | | | | | | |
| Answer | ZZCP | P1 | ; | | | | | | |
| Notes | P1 = 0 | for off, | 1 for on | • | | | | | |

| ZZCS Se | ts or rea | ds the C | CW Spe | ed | | | |
|---------|-----------|----------|--------|----|--|--|--|
| Get | ZZCS; | | | | | | |
| Set | ZZCS | P1 | P1 | ; | | | |
| Answer | ZZCS | P1 | P1 | ; | | | |
| Notes | P1 = 01 | to 60 | | | | | |

| ZZCU R | eads the | CPU U | sage | | | | | | |
|--------|----------|---------|--------|----|----|----|----|---|--|
| Get | ZZCU | ; | | | | | | | |
| Set | | | | | | | | | |
| Answer | ZZCU | P1 | P1 | P1 | P1 | P1 | P1 | ; | |
| Notes | P1 = 00 | 0.00 to | 100.00 | | | | | | |

| ZZDA S | ets or rea | ads the | Display | Averag | ge (AVC | 3) status | S | | |
|--------|------------|----------|-----------|--------|---------|-----------|---|--|--|
| Get | ZZDA | ; | | | | | | | |
| Set | ZZDA | P1 | ; | | | | | | |
| Answer | ZZDA | P1 | ; | | | | | | |
| Notes | P1 = 0.1 | for off, | l for on. | | | | | | |

| ZZDM | Sets or re | eads the | Displa | y Mode | | | |
|--------|-------------|----------|--------|--------|--|--|--|
| Get | ZZDM | ; | | | | | |
| Set | ZZDM | P1 | • | | | | |
| Answer | ZZDM | P1 | ; | | | | |
| Notes | P1 value | es: | | | | | |
| | 0 = Spec | ctrum | | | | | |
| | 1 = Pana | adapter | | | | | |
| | $2 = Sco_1$ | pe | | | | | |
| | 3 = Phas | se | | | | | |
| | 4 = Phas | se2 | | | | | |
| | 5 = Wat | erfall | | | | | |
| | 6 = Hist | ogram | | | | | |
| | 7 = Off | | | | | | |

| ZZFI Se | ts or re | ads the | current | DSP re | ceive fi | lter | | |
|---------|----------|---------|---------|--------|----------|------|--|--|
| Get | ZZFI | ; | | | | | | |
| Set | ZZFI | P1 | P1 | ; | | | | |
| Answer | ZZFI | P1 | P1 | ; | | | | |
| Notes | P1 valu | ues: | | | | | | |
| | 00 = 6 | .0K | | | | | | |
| | 01 = 4 | .0K | | | | | | |
| | 02 = 2 | .6K | | | | | | |
| | 03 = 2 | .1K | | | | | | |
| | 04 = 1 | .0K | | | | | | |
| | 05 = 50 | 00 | | | | | | |
| | 06 = 23 | 50 | | | | | | |
| | 07 = 10 | 00 | | | | | | |
| | 08 = 50 | 0 | | | | | | |
| | 09 = 23 | 5 | | | | | | |
| | 10 = V | AR1 | | | | | | |
| | 11 = V | AR2 | | | | | | |

| ZZGT | Sets or re | eads the | AGC t | humbw | heel cor | ntrol | | |
|--------|------------|----------|-------|-------|----------|-------|--|--|
| Get | ZZGT | ; | | | | | | |
| Set | ZZGT | P1 | • | | | | | |
| Answer | ZZGT | P1 | ; | | | | | |
| Notes | P1 valu | es: | | | | | | |
| | 0 = Fix | ed | | | | | | |
| | 1 = Lor | | | | | | | |
| | 2 = Slo | W | | | | | | |
| | 3 = Me | d | | | | | | |
| | 4 = Fas | t | | | | | | |
| | 5 = Cus | stom | | | | | | |

| ZZID S | ZZID Sets the transceiver identification to SDR-1000 | | | | | | | | | | |
|--------|---|---|--|--|--|--|--|--|--|--|--|
| Get | | | | | | | | | | | |
| Set | ZZID | ; | | | | | | | | | |
| Answer | | | | | | | | | | | |
| Notes | Notes ZZID is used to remotely force the transceiver id to 900 (SDR-1000). | | | | | | | | | | |

| ZZIF R | eads the | SDR-1 | 000 stat | tus | | | | | | |
|--------|--|--|--|--|---|---|--|-------------------------------------|------|--------|
| Get | ZZIF | P1 | ; | | | | | | | |
| Set | | | | | | | | | | |
| Answer | ZZIF | P1 | P2 | P2 | P2 | P2 | P2 | P2 | P2 | P2 |
| | P2 | P2 | P2 | P3 | P3 | P3 | P3 | P4 | P4 | P4 |
| | P4 | P4 | P4 | P5 | P6 | P7 | P8 | P8 | P9 | P10 |
| | P10 | P11 | P12 | P13 | P14 | P15 | P15 | P16 | ; | |
| Notes | P3 (4 c) P4 (6 c) P5 (1 c) P6 (1 c) P7 (1 c) P8 (2 c) P9 (1 c) | character character character character character character character character | rs) Frequency RIT/2 r) RIT st r) XIT st r) Channers) Chan r) MOX | uency sto XIT frectatus. 0 tatus. 0 tatus. 0 nel bank unel banl button s | ep size e quency (= off, 1 = off, 1 number x numbe status. (| expresse +nnnnn = on. = on. : Not user. Not user. Not user. | d in pow or –nnn sed, defa used, de | vers of 1 nn). aulted to faulted t | o 0. | ZZST). |
| | P12 (1 P13 (1 P14 (1 P15 (2 | characte characte characte characte characte | er) Scan er) VFO er) CTC ers) Mor | status. Split st SS tone re tone of | Not impatus. Sa Not us controls. | olemente me as Zz sed, defa Not us | ed, defanzsP. ulted to ed, defa | olted to 0. Ulted to 0. | | |

| ZZIS Se | ts or re | ads the | variabl | e filter v | width sl | ider | | | |
|---------|----------|---------|---------|------------|----------|------|---|--|--|
| Get | ZZIS | ; | | | | | | | |
| Set | ZZIS | P1 | P1 | P1 | P1 | P1 | ; | | |
| Answer | ZZIS | P1 | P1 | P1 | P1 | P1 | ; | | |
| Notes | P1 = 0 | 0000 to | 10000. | | | | | | |

| ZZIT S | ets or re | ads the | variab | ole filter | r shift sl | ider | | | |
|--------|-----------|----------|----------|------------|------------|------|---|------|--|
| Get | ZZIT | ; | | | | | | | |
| Set | ZZIT | P1 | P2 | P2 | P2 | P2 | ; | | |
| Answer | ZZIT | P1 | P2 | P2 | P2 | P2 | ; | | |
| Notes | P1 = " | +" or "- | " | | | | | | |
| | P2 = 0 | 000 to 1 | 1000 (-1 | 1000 to | +1000) | | | | |

| ZZIU R | ZZIU Resets the variable filter shift slider | | | | | | | | | | | |
|--------|--|------|--|--|--|--|---|--|--|--|--|--|
| Get | | | | | | | | | | | | |
| Set | ZZIU | ; | | | | | | | | | | |
| Answer | | | | | | | ; | | | | | |
| Notes | Write | only | | | | | | | | | | |

| ZZMA | Sets or re | eads the | Mute (| MUT) s | status | | | |
|--------|------------|-----------|---------|--------|--------|--|--|--|
| Get | ZZMA | ; | | | | | | |
| Set | ZZMA | P1 | ; | | | | | |
| Answer | ZZMA | P1 | ; | | | | | |
| Notes | P1 = 0 f | or off, 1 | for on. | | | | | |

| ZZMD | Sets or rea | ads th | e Oper | ating N | Mode | | | |
|--------|-------------|--------|--------|---------|-------------|--|--|--|
| Get | ZZMD | • | | | | | | |
| Set | ZZMD | P1 | P1 | ; | | | | |
| Answer | ZZMD | P1 | P1 | ; | | | | |
| Notes | P1 value | s: | | | | | | |
| | 00 = LSI | 3 | | | | | | |
| | 01 = US | В | | | | | | |
| | 02 = DS | В | | | | | | |
| | 03 = CW | 'L | | | | | | |
| | 04 = CW | 'U | | | | | | |
| | 05 = FM | N | | | | | | |
| | 06 = AM | I | | | | | | |
| | 07 = DIC | GU | | | | | | |
| | 08 = SPF | EC | | | | | | |
| | 09 = DIC | GL | | | | | | |
| | 10 = SA | M | | | | | | |
| | 11 = DR | M | | | | | | |
| | | | | | | | | |

| ZZMG | Reserved | (Mic p | regain | deleted | in 1.3.1 | 3) | | |
|--------|----------|--------|--------|---------|----------|----|--|--|
| Get | ZZMG | ; | | | | | | |
| Set | ZZMG | | | | | | | |
| Answer | ZZMG | | | | | | | |
| Notes | | | | | | | | |

| ZZMR | Sets or re | eads the | e RX M | eter mo | de | | | | | | |
|--------|------------|--------------------|--------|---------|----|--|--|--|--|--|--|
| Get | ZZMR | ; | | | | | | | | | |
| Set | ZZMR | P1 | ; | | | | | | | | |
| Answer | ZZMR | P1 | ; | | | | | | | | |
| Notes | P1 Valu | es: | | | | | | | | | |
| | 0 = Sigr | | | | | | | | | | |
| | 1 = Sigr | 1 = Signal Average | | | | | | | | | |
| | 2 = AD0 | 2 = ADC L | | | | | | | | | |
| | 3 = AD0 | B = ADC R | | | | | | | | | |
| | 4 = Off | | | | | | | | | | |

| ZZMT | Sets or re | eads the | TX Mo | eter mo | de | | | | | | | |
|--------|------------|--|-------|---------|----|--|--|--|--|--|--|--|
| Get | ZZMT | ; | | | | | | | | | | |
| Set | ZZMT | P1 | ; | | | | | | | | | |
| Answer | ZZMT | P1 | ; | | | | | | | | | |
| Notes | P1 Valu | P1 Values: | | | | | | | | | | |
| | 0 = ALC | 0 = ALC | | | | | | | | | | |
| | 1 = For | 1 = Forward Power | | | | | | | | | | |
| | 2 = Peal | k Powei | • | | | | | | | | | |
| | 3 = Rev | 3 = Reverse Power | | | | | | | | | | |
| | 4 = SW | 4 = SWR (Console must be in TUN mode to set TX meter to SWR) | | | | | | | | | | |
| | 5 = Off | | | | | | | | | | | |

| ZZNB | Sets or re | ads the | Noise I | Blanker | 2 (NB2 |) status | | | | |
|--------|---------------------------------|---------|---------|---------|--------|----------|--|--|--|--|
| Get | ZZNB | ; | | | | | | | | |
| Set | ZZNB | P1 | ; | | | | | | | |
| Answer | ZZNB | P1 | ; | | | | | | | |
| Notes | tes $P1 = 0$ for off, 1 for on. | | | | | | | | | |

| ZZNL S | ets or re | ads the | Noise B | lanker | 1 thresh | old (Se | tup DS | P tab) | | |
|--------|-----------|--------------------|---------|--------|----------|---------|--------|--------|--|--|
| Get | ZZNL | ; | | | | | | | | |
| Set | ZZNL | P1 | P1 | P1 | ; | | | | | |
| Answer | ZZNL | P1 | P1 | P1 | ; | | | | | |
| Notes | P1 = 00 | P1 = 001 to 200. | | | | | | | | |

| ZZNM | Sets or re | ads the | Noise I | Blanker | 2 thres | hold (Se | etup DS | SP tab) | |
|--------|------------|----------|---------|---------|---------|----------|---------|---------|--|
| Get | ZZNM | ; | | | | | | | |
| Set | ZZNM | P1 | P1 | P1 | P1 | ; | | | |
| Answer | ZZNM | P1 | P1 | P1 | P1 | ; | | | |
| Notes | P1 = 00 | 01 to 10 | 000. | | | | | | |

| ZZNR S | ets or re | ads the | Noise R | Reductio | n (NR) | status | | |
|--------|-----------|----------|-----------|----------|--------|--------|--|--|
| Get | ZZNR | ; | | | | | | |
| Set | ZZNR | P1 | ; | | | | | |
| Answer | ZZNR | P1 | ; | | | | | |
| Notes | P1 = 0 | for off, | l for on. | | | | | |

| ZZPA Se | ets or rea | ads the | Preamp | lifier (I | Preamp |) setting | 5 | | |
|---------|------------|------------|--------|-----------|--------|-----------|---|--|--|
| Get | ZZPA | ; | | | | | | | |
| Set | ZZPA | P1 | ; | | | | | | |
| Answer | ZZPA | P1 | ; | | | | | | |
| Notes | P1 valu | es; | | | | | | | |
| | 0 = Off | • | | | | | | | |
| | 1 = Lov | V | | | | | | | |
| | 2 = Me | d | | | | | | | |
| | 3 = Hig | <u>ş</u> h | | | | | | | |

| ZZPL | Sets or re | eads the | Speech | Comp | essor tl | hreshol | d (Setup | Transı | mit tab) | |
|--------|------------|----------|--------|------|----------|---------|----------|--------|----------|--|
| Get | ZZPL | ; | | | | | | | | |
| Set | ZZPL | P1 | P1 | ; | | | | | | |
| Answer | ZZPL | P1 | P1 | ; | | | | | | |
| Notes | P1 = 00 | 0 to 20. | | | | | | | | |

| ZZQM | Reads the | e Quicl | Save N | Iemory | value | | | | | | |
|--------|-----------|--|--------|---------------|-------|----|----|----|----|----|--|
| Get | ZZQM | ; | | | | | | | | | |
| Set | | | | | | | | | | | |
| Answer | ZZQM | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 | P1 | |
| | | P1 | P1 | ; | | | | | | | |
| Notes | P1 = fre | P1 = frequency in Hz (11 digits). Example: 14,320.150 = 00014320150. | | | | | | | | | |

| ZZQR R | Restores 1 | he Qui | ck Save | Memor | y (QR) | | | |
|--------|------------|----------|---------|-------|--------|--|--|---|
| Get | | | | | | | | |
| Set | ZZQR | ; | | | | | | |
| Answer | | | | | | | | |
| Notes | ZZQR i | s write- | only | • | | | | • |

| ZZRF Se | ts or rea | ds the I | RIT free | quency | | | | | | | |
|---------|-----------------------|-----------|----------|--------|----|----|--|--|--|--|--|
| Get | ZZRF; | | | | | | | | | | |
| Set | ZZRF | P1 | P2 | P2 | P2 | P2 | | | | | |
| Answer | ZZRF | P1 | P2 | P2 | P2 | P2 | | | | | |
| Notes | P1 = po | larity (+ | or -) | | | | | | | | |
| | P2 = frequency in Hz. | | | | | | | | | | |

| ZZRM | Reads the | SDR-1 | 1000 C | onsole I | Multim | eter | | | | |
|--------|-----------|--------------|---------|----------|--------|------|----|----|----|----|
| Get | ZZRM | P1 | ; | | | | | | | |
| Set | | | | | | | | | | |
| Answer | ZZRM | P1 | P2 | P2 | P2 | P2 | P2 | P2 | P2 | P2 |
| | P2 | P2 | P2 | P2 | P2 | P2 | P2 | P2 | P2 | P2 |
| | P2 | P2 | ; | | | | | | | |
| Notes | P1 Valu | ies: | | | | | | | | |
| | 0 = Sign | nal Stre | ngth | | | | | | | |
| | 1 = Ave | rage St | rength | | | | | | | |
| | 2 = AD | C_L | | | | | | | | |
| | 3 = AD0 | C_R | | | | | | | | |
| | 4 = ALC | \mathbb{C} | | | | | | | | |
| | 5 = For | ward Po | ower | | | | | | | |
| | 6 = Peal | k Powe | r | | | | | | | |
| | 7 = Rev | erse Po | wer | | | | | | | |
| | 8 = SW | R | | | | | | | | |
| | P2 is pa | dded le | ft with | spaces. | | | | | | |
| | ZZRM | is read- | only. | | | | | | | |

| ZZSF Set | ts the va | riable f | ilter wi | dth and | center | (KD5T | FD filte | rs) | | |
|----------|-----------|-----------|----------|---------|--------|-------|----------|-----|----|--|
| Get | | | | | | | | | | |
| Set | ZZSF | P1 | P1 | P1 | P1 | P2 | P2 | P2 | P2 | |
| Answer | | | | | | | | | | |
| Notes | P1 = cc | enter fre | quency | in Hz. | | | | | | |
| | P2 = w | idth in l | Hz. | | | | | | | |
| | ZZSF | is write- | only. | | | | | | | |

| ZZSM R | eads the | S-Mete | r | | | | | | | | | |
|--------|----------|---|----|----|----|---|--|--|--|--|--|--|
| Get | ZZSM | P1 | ; | | | | | | | | | |
| Set | | | | | | | | | | | | |
| Answer | ZZSM | P1 | P2 | P2 | P2 | ; | | | | | | |
| Notes | P1 = 0 | | | | | | | | | | | |
| | P2 = 00 | 0 to 260 |) | | | | | | | | | |
| | Each in | Each increment of ZZSM is approximately equal to 0.5 dBm. | | | | | | | | | | |

| ZZSO S | ets or rea | ads the | Squelch | on/off | status | | | |
|--------|------------|----------|-----------|--------|--------|--|--|--|
| Get | ZZSO | ; | | | | | | |
| Set | ZZSO | P1 | ; | | | | | |
| Answer | ZZSO | P1 | ; | | | | | |
| Notes | P1 = 0 | for off, | 1 for on. | , | | | | |

| ZZSP Se | ts or rea | ads the | VFO Sp | olit (SPI | LT) stat | us | | | | |
|---------|-----------|---------------------------|--------|-----------|----------|----|--|--|--|--|
| Get | ZZSP | ; | | | | | | | | |
| Set | ZZSP | P1 | ; | | | | | | | |
| Answer | ZZSP | P1 | ; | | | | | | | |
| Notes | P1 = 0 | P1 = 0 for off, 1 for on. | | | | | | | | |

| ZZSQ Se | ts or rea | ds the S | SDR-10 | 00 Squ | elch con | trol | | |
|---------|-----------|----------|--------|--------|----------|------|--|--|
| Get | ZZSQ | ; | | | | | | |
| Set | ZZSQ | P1 | P1 | P1 | ; | | | |
| Answer | ZZSQ | P1 | P1 | P1 | ; | | | |
| Notes | P1 = 00 | 00 to 16 | Э. | | | | | |

| ZZST R | eads the | freque | ncy step | size | | | | |
|--------|----------|----------|----------|----------|---------|----------|--|--|
| Get | ZZST | ; | | | | | | |
| Set | | | | | | | | |
| Answer | ZZST | P1 | P1 | P1 | P1 | ; | | |
| Notes | P1 valu | es are e | xpressed | l in BCI |) power | s of 10: | | |
| | 0000 = | 10e0 = | 1 Hz | | | | | |
| | 0001 = | 10e1 = | 10 Hz | | | | | |
| | 0010 = | 10e2 = | 100 Hz | | | | | |
| | 0011 = | 10e3 = | 1 kHz | | | | | |
| | 0100 = | 10e4 = | 10 kHz | | | | | |
| | 0101 = | 10e5 = | 100 kHz | Z | | | | |
| | 0110 = | 10e6 = | 1 mHz | | | | | |
| | 0111 = | 10e7 = | 10 mHz | | | | | |
| | ZZST i | s read-o | nly. | | | | | |

| ZZTH Se | ets or rea | ds the | TX Filte | er High | setting | | | | | | | |
|---------|---|---|----------|---------|---------|----|---|--|--|--|--|--|
| Get | ZZTH | ; | | | | | | | | | | |
| Set | ZZTH | P1 | P1 | P1 | P1 | P1 | ; | | | | | |
| Answer | ZZTH | P1 | P1 | P1 | P1 | P1 | ; | | | | | |
| Notes | P1 = 00 | P1 = 00500 to 20000. ZZTH does not change the Setup form TX Filter High | | | | | | | | | | |
| | setting, the SDR-1000 will default to that setting on power up. | | | | | | | | | | | |

| ZZTL Se | ts or rea | ds the [| ΓX Filte | er Low s | setting | | | | | | | |
|---------|-----------|--|----------|----------|---------|---|--|--|--|--|--|--|
| Get | ZZTL | ; | | | | | | | | | | |
| Set | ZZTL | P1 | P1 | P1 | P1 | ; | | | | | | |
| Answer | ZZTL | P1 | P1 | P1 | P1 | ; | | | | | | |
| Notes | P1 = 00 | P1 = 0000 to 2000. ZZTL does not change the Setup form TX Filter Low | | | | | | | | | | |
| | setting, | setting, the SDR-1000 will default to that setting on power up. | | | | | | | | | | |

| ZZTU Se | ts or rea | ds the | Tune (T | UN) sta | tus | | | | | | |
|---------|-----------|---|---------|---------|-----|--|--|--|--|--|--|
| Get | ZZTU | ; | | | | | | | | | |
| Set | ZZTU | P1 | ; | | | | | | | | |
| Answer | ZZTU | P1 | ; | | | | | | | | |
| Notes | P1 = 0 | P1 = 0 for off, 1 for on. Console power must be on for TUN to function. | | | | | | | | | |

| ZZVL S | ets or re | ads the | VFO L | ock stat | us | | | |
|--------|-----------|----------|-----------|----------|----|--|--|--|
| Get | ZZVL | ; | | | | | | |
| Set | ZZVL | P1 | ; | | | | | |
| Answer | ZZVL | P1 | ; | | | | | |
| Notes | P1 = 0 | for off, | 1 for on. | | | | | |

| ZZVN F | Reads the | Powers | SDR sof | tware v | ersion | number | • | | | | |
|--------|-----------|--|---------|---------|--------|--------|---|--|--|--|--|
| Get | ZZVN | ; | | | | | | | | | |
| Set | | | | | | | | | | | |
| Answer | ZZVN | P1 | ; | | | | | | | | |
| Notes | Returns | Returns ZZVN001.3.14.0; ten total characters including decimal points. | | | | | | | | | |

| ZZVS Sets the VFO Swap status | | | | | | | | | | | |
|-------------------------------|---------------------------|---------------------|---|--|--|--|--|--|--|--|--|
| Get | | | | | | | | | | | |
| Set | ZZVS | P1 | ; | | | | | | | | |
| Answer | | | | | | | | | | | |
| Notes | P1 values: | | | | | | | | | | |
| | 0 = A > B | | | | | | | | | | |
| | 0 = A > B 1 = A < B | | | | | | | | | | |
| | $2 = A \Leftrightarrow B$ | | | | | | | | | | |
| | ZZVS i | ZZVS is write-only. | | | | | | | | | |

| ZZXC Clears the XIT frequency (XIT[0]) | | | | | | | | | | |
|--|---------------------|---|--|--|--|--|--|--|--|--|
| Get | | | | | | | | | | |
| Set | ZZXC | ; | | | | | | | | |
| Answer | | | | | | | | | | |
| Notes | ZZXC is write-only. | | | | | | | | | |

| ZZXF Sets or reads the XIT frequency | | | | | | | | | | |
|--------------------------------------|------------------------|----|----|----|----|----|---|--|--|--|
| Get | ZZXF; | | | | | | | | | |
| Set | ZZXF | P1 | P2 | P2 | P2 | P2 | ; | | | |
| Answer | ZZXF | P1 | P2 | P2 | P2 | P2 | ; | | | |
| Notes | P1 = polarity (+ or -) | | | | | | | | | |
| | P2 = frequency in Hz. | | | | | | | | | |

January 3, 2006 Revisions:

Corrected typo in MD.
Changed ZZMD to reflect DIGU and DIGL.
Added ZZTH and ZZTL commands.