FLEXRADIO 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	00 to 255	5	
	(scaled 0 to 100 in software). An Set value of 127 = 50 on the AF Gain										
	thumbwheel. Also see ZZAG.										

AI Sets o	r reads	the Au	to Infor	mation	functio	n							
Get	AI	;											
Set	AI	P1	;										
Answer	AI	AI P1 :											
Notes	P1 = 0	P1 = 0 for Off, 1 or more for On. When On, the radio will broadcast the											
	VFO (VFO (A or B) frequency when changed. Option checkbox on the											
	Setup/CAT tab must be checked to allow this command.												

BD Mov	loves the transceiver down one band										
Get											
Set	BD	;									
Answer											
Notes	BD is write-only										

BU Mov	es the t	ranscei	ver up o	ne ban	d					
Get										
Set	BU	;								
Answer										
Notes	BU is	BU is write-only								

DN Mov	es VFO	A dow	n by the	incren	ient set	in step	size				
Get											
Set	DN	;									
Answer											
Notes	DN is	DN is write-only									

FA Sets	or read	ls 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 = f1	P1 = frequency in Hz (11 digits). Blank digits must be 0. Example:								
	14,320	14,320.150 = 00014320150.								

FB Sets	or read	s VFO	B frequ	ency						
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 = f1	P1 = frequency in Hz (11 digits). Blank digits must be 0. Example:								
	14,320	14,320.150 = 00014320150.								

FR Sets	or read	s the tr	ansceiv	er recei	ve VFO					
Get	FR	,								
Set	FR	P1	;							
Answer	FR	P1	;							
Notes		for thire the rece		-	bility. F	P1 = 0 si	nce the	FlexRac	lio VFO	A is

FT Sets	or read	s the tr	ansceive	er trans	mit VF	0						
Get	FT	;										
Set	FT	T P1 ;										
Answer	FT	P1	;									
Notes	P1 = 0	P1 = 0 for VFO A, 1 for VFO B.										

FW Sets	or reac	ds the D	SP rece	eive filte	r width	(obsol	ete 4/4/2	2007, no	t active)
Get	FW	;								
Set	FW	P1	P1	P1	P1	;				
Answer	FW	P1	P1	P1	P1	;				
Notes	FW only accepts FlexRadio filter widths. See ZZFI for values.									

GT Sets	or reac	ls the A	GC tim	e consta	ant thui	nbwhee	l contro	ol		
Get	GT	;								
Set	GT	P1	P1	P1	;					
Answer	GT	P1	P1	P1	;					
Notes	P1: Fi	xed = 0	00, Long	g = 001,	Slow =	002, M	ed = 003	3, 004 =	Fast, 00)5 =
	Custor	n.								

ID Read	ls the tr	ansceiv	er ID nı	umber						
Get	ID	;								
Set										
Answer	ID	P1	P1	P1	;					
Notes	P1 def	aults to	019 (TS	-2000).	The Fle	xRadio	id code	(900) n	ay be s	elected
	remotely using ZZID. ID is read-only.									

IF Read	ls the tr	ansceiv	er statu	s					,				
Get	IF	;											
Set													
Answer	IF	P1	P1	P1	P1	P1	P1	P1	P1	P1			
	P1	P1	P2	P2	P2	P2	P3	P3	P3	P3			
	Р3	P3	P4	P5	P6	P7	P7	P8	P9	P10			
	P11	P12	P13	P14	P14	P15	;						
Notes	P1 (11	P1 (11 characters) VFO A frequency in Hz. Same as FA;											
	P2 (4 d	characte	rs) Freq	uency st	ep size e	expresse	ed in pov	wers of	10 (see				
	ZZST)).											
	1 `	characte	,			•	or –nnr	nnn).					
	,	characte	,										
	,	characte	•				_						
	,	characte	•										
	,	characte	,										
	1 '	characte	•				•		ting).				
	,	characte	, .	_			_						
	,	charact	•	-			•	-	0				
	`	charact	,		-	-		ulted to	0.				
	,	charact	•	-				0					
	`	charact	,						00				
		P14 (2 characters) More tone controls. Not used, defaulted to 00.											
	1 512 (1	P15 (1 character) Shift status. Not used, defaulted to 0.											
	P9 wil	l return	a space	if a non-	Kenwo	od mode	is selec	cted on t	the Flex	Radio.			

KS Sets of	r reads	CWX (W spee	ed				
Get	KS	•						
Set	KS	P1	P1	P1	;			
Answer	KS	P1	P1	P1	1			
Notes	P1 01	0 – 060	in WPM	Í				

KY Sen	ds text	to CW2	X for co	nversio	n to Mo	orse					
Get	KY	;									
Set	KY	P1	P2	P2	P2	P2	P2	P2	P2	P2	
	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2	
	P2	P2	P2	P2	P2	P2	;				
Answer	KY	P1	;								
Notes	Get: I	P10 = 0	Characte	r buffer	availab	le, 1 = C	haracter	buffer	not avai	lable	
	(> 72 c	(> 72 characters in the buffer). Set: P1 = space, P2 up to 24 ASCII printing									
	characters. Empty character positions in P2 must contain a space.										

MD Sets	or rea	ds the t	ransceiv	er opei	ating n	ıode		
Get	MD	;						
Set	MD	P1	;					
Answer	MD	P1	;					
Notes	P1 valı	ues:						
	1 = LS	B						
	2 = US	$_{\mathrm{B}}$						
	3 = CV	VU						
	4 = FN	ΙN						
	5 = AN	M						
	6 = RT	TY (D	GL)					
	7 = CV	٧L						
	9 = FS	K-R (D	IGU)					

MG Set	s or rea	ds the N	/licroph	one Ga	in thum	bwheel	contro				
Get	MG	;									
Set	MG	P1	P1	P1	;						
Answer	MG	P1	P1	P1	;						
Notes	P1 = 0	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 reads the Noise Blanker 1 (NB1) status

Get	NB	;					
Set	NB	P1	;				
Answer	NB	P1	;				
Notes	P1 = 0	for on,	1 for off	•			

NT Sets	or reac	ls the A	utomati	c Notch	Filter	(ANF) s	status			
Get	NT	;								
Set	NT	P1	;							
Answer	NT	P1	;							
Notes	P1 = 0 for on, 1 for off.									

PC Sets	or read	s the P	A Powe	r (PWR) status			
Get	PC	;						
Set	PC	P1	P1	P1	;			
Answer	PC	P1	P1	P1	;			
Notes	P1 = 0	00 to 10	0.					

PR Sets	or read	ls the Sp	eech C	ompres	sor (CC)MP) st	atus			
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	itus					
Get	PS	;								
Set	PS	P1	;							
Answer	PS	P1	;							
Notes	P1: 0	P1: 0 = Standby, 1 = On.								

QI Sets	the Qui	ck Save	memoi	ry (QS)			
Get							
Set	QI	;					
Answer							
Notes	QI is v	vrite-onl	y.				

RC Clea	rs the I	RIT free	quency	(RIT[0])		_	
Get								
Set	RC	;						
Answer								
Notes	RC is	write-on	ly.					

RT Sets or reads the RIT button status

Get	RT	;					
Set	RT	P1	;				
Answer	RT	P1	;				
Notes	P1 = 0	for on,	1 for off	•			

RX Sets	RX Sets the transceiver to Receive mode (MOX off)											
Get												
Set	RX	;										
Answer												
Notes	RX is	RX is write-only.										

SH Sets	or reads	the va	riable D	SP Filt	er high	freque	1су		
Get	SH	•							
Set	SH	P1	P1	;					
Answer	SH	P1	P1	;					
Notes	SSB M	Iodes (U	JSB, LS	B, CWU	J and CV	WL) in l	Hz		
		= 1400							
		= 1600							
		= 1800							
		= 2000							
		= 2200							
		= 2400							
		= 2600							
		= 2800							
		= 3000							
		= 3400 = 4000							
		= 5000							
	11	- 3000	,						
	DSB M	Iodes (A	AM, DS	B, FMN	, DRM,	SAM)			
		= 2500		•	,	,			
	01	= 3000)						
	02	= 4000)						
	03	= 5000)						
	SH has	no effe	ct in RT	TY, PS	K, or SF	PEC.			

SL Sets	or read	s the va	riable I	OSP filte	er low f	requen	cy		
Get	SL	;							
Set	SL	P1	P1	;					
Answer	SL	P1	P1	;					
Notes	SSB M	Iodes (U	JSB, LS	B, CWU	J and CV	WL) in 1	Hz		
		= 0							
		= 50							
		= 100							
		= 200							
		= 300							
		= 400							
		= 500							
		= 600							
		= 700							
		= 800							
		= 900 = 1000	1						
	11	= 1000	,						
	DSB N	Andes (A	AM DS	B, FMN	DRM	SAM)			
	l	= 0	1111, 20	D, 1 1,111 (, 21411,	011111)			
		= 100							
		= 200							
		= 500							
	SL has	no effe	ct in RT	TY, PS	K, or SP	EC.			

SM Rea	ds the S	S-Meter								
Get	SM	P1	;							
Set										
Answer	SM	P1	P2	P2	P2	P2	;			
Notes	P2 = 0 readin	for mai 000 to 0 gs above read-on	0030 wh e S9.		5 = S9.	Current	code ne	eds imp	roveme	nt for

SQ Sets	or reac	ls the So	quelch (SQL) tl	humbwl	heel con	trol			
Get	SQ	P1	;							
Set	SQ	P1	P2	P2	P2	;				
Answer	SQ	P1	P2	P2	P2	;				
Notes	P1 = 0	for mai	n transc	eiver.						
	P2 = 0	000 to 25	5 (scale	d in sof	tware to	0 - 160	, SQ012	27; = 80	on the	
	contro	1.								

TX Sets	the tra	nsceiver	to Tra	nsmit n	ıode (M	OX 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 th	ird-party	y softwa	re.					

UP Mov	Moves VFO A up by the increment set in step size											
Get												
Set	UP	;										
Answer												
Notes	UP is v	UP is write-only										

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

FlexRadio Custom Commands

ZZAG	Sets or re	eads the	Audio	Gain c	ontrol			
Get	ZZAG	;						
Set	ZZAG	P1	P1	P1	;			
Answer	ZZAG	P1	P1	P1	;			
Notes	P1 = 00	0 to 100	0.					

ZZAI Se	ts or rea	ads the	Auto In	format	ion func	ction						
Get	ZZAI	•										
Set	ZZAI	P1	;									
Answer	ZZAI	ZZAI P1 :										
Notes	P1 = 0	for Off,	1 or mo	ore for C	n. Who	en On, t	he radio	will bro	oadcast t	the		
	VFO (VFO (A or B) frequency when changed. Option checkbox on the										
	Setup/CAT tab must be checked to allow this command.											

ZZAR S	Sets or re	ads the	AGC T	Thresho	ld cont	rol				
Get	ZZAR	;								
Set	ZZAR	P1	P1	P1	P1	;				
Answer	ZZAR	P1	P1	P1	P1	;				
Notes	P1 = -20 to +120 (Must have + or - sign).									

ZZBD	Moves the	e band	switch (down or	ie band			
Set	ZZBD	•						
Notes	ZZBD i	s write-	only					·

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

ZZBI S	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	l .				

ZZBR S	ets or re	ads the	BCI Re	jection	button	status				
Get	ZZBR	•								
Set	ZZBR	P1	;							
Answer	ZZBR	P1	;							
Notes	es 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	HF P1	values:	160, 08	0, 060,	040, 030	0, 020, 0	17, 015	, 012, 0	10, 006,	002
	(when 2	2 meter	transvei	rter is in	stalled),	888 (G	EN), an	d 999 (V	WWV).	VHF
	P1 valu	ies: V0	01 thru '	V013.						

ZZBU	Moves the	band s	witch u	p one b	and		 	
Set	ZZBU	;						
Notes	ZZBU i	s write-	only			•		·

ZZCB Se	ts or rea	ds the	Break I	n Enab	le check	box sta	tus			
Get	ZZCB	•								
Set	ZZCB	P1	;							
Answer	ZZCB	P1	;							
Notes	P1 = 0 for disabled, 1 for enabled.									

ZZCD S	ets or re	ads the	Break 1	In Delay	y value					
Get	ZZCD	;								
Set	ZZCD	P1	P1	P1	P1	;				
Answer	ZZCD	P1	P1	P1	P1	;				
Notes	tes P1 = 0150 to 5000									

ZZCF So	ets or re	ads the	Show T	X CW	Freque	ncy che	ckbox s	status		
Get	ZZCF	;								
Set	ZZCF	P1	;							
Answer	ZZCF	P1	;							
Notes	P1 = 0	P1 = 0 for disabled, 1 for enabled.								

ZZCI Set	s or rea	ds the (CW Ian	ıbic che	ckbox s	status					
Get	ZZCI	;									
Set	ZZCI	ZZCI P1 ;									
Answer	ZZCI	P1	;								
Notes	P1 = 0	P1 = 0 for disabled, 1 for enabled.									

ZZCL S	ets or re	ads the	CW Pi	tch (Set	up DS	P)				
Get	ZZCL	;								
Set	ZZCL	P1	P1	P1	P1	;				
Answer	ZZCL	P1	P1	P1	P1	;				
Notes	Notes $P1 = 0200 \text{ to } 1200.$									

ZZCM S	Sets or re	ads the	CW M	onitor c	heckbo	x status	S			
Get	ZZCM	•								
Set	ZZCM	P1	;							
Answer	ZZCM	P1	;							
Notes	Notes P1 = 0 for disabled, 1 for enabled.									

ZZCP So	ets or re	ads the	Compa	nder (C	CMP) bu	utton st	atus				
Get	ZZCP	;									
Set	ZZCP	P1	;								
Answer	ZZCP	P1	;								
Notes	P1 = 0	P1 = 0 for off, 1 for on.									

ZZCS Se	ts or rea	ds the (CW Sp	eed			
Get	ZZCS	;					
Set	ZZCS	P1	P1	;			
Answer	ZZCS	P1	P1	 ;			
Notes	P1 = 01	to 60					

ZZCT S	ets or re	ads the	Compa	ander T	hreshol	d value		
Get	ZZCT	;						
Set	ZZCT	P1	P1	;				
Answer	ZZCT	P1	P1	;				
Notes	P1 = 00) to 10.						

ZZCU R	eads the	CPU U	Jsage							
Get	ZZCU	;								
Set										
Answer	ZZCU	P1	P1	P1	P1	P1	P1	;		
Notes	P1 = 000.00 to 100.00									

ZZDA S	ets or rea	ads the	Display	Avera	ge (AV	G) statu	ıs			
Get	ZZDA	;								
Set	ZZDA	P1	;							
Answer	ZZDA	P1	;							
Notes	Notes $P1 = 0$ for off, 1 for on.									

ZZDM	Sets or read	ds the	Display	y Mode			
Get	ZZDM ;						
Set	ZZDM P	P 1	•				
Answer	ZZDM P	P 1	;				
Notes	P1 values:						
	0 = Spectri	um					
	1 = Panada	apter					
	2 = Scope	_					
	3 = Phase						
	4 = Phase2	2					
	5 = Waterf	fall					
	6 = Histog	gram					
	7 = Off						

ZZDX S	ets or rea	ads the	Phone 1	DX but	ton stat	us				
Get	ZZDX	;								
Set	ZZDX	P1	;							
Answer	ZZDX	P1	;							
Notes $P1 = 0$ for off, 1 for on.										

ZZEA Se	ets or rea	ds the	RX EQ	values							
Get	ZZEA	;									
Set	ZZEA	P1	P1	P1	P2	P2	P2	P3	P3	P3	
		P4	P4	P4	P5	P5	P5	P6	P6	P6	
		P7	P7	P7	P8	P8	P8	P9	P9	P9	
		P10	P10	P10	P11	P11	P11	P12	P12	P12	
		;									
Answer	ZZEA	P1	P1	P1	P2	P2	P2	P3	P3	P3	
		P4	P4	P4	P5	P5	P5	P6	P6	P6	
		P7	P7	P7	P8	P8	P8	P9	P9	P9	
		P10	P10	P10	P11	P11	P11	P12	P12	P12	
		;									
Notes	P1 = nu	P1 = number of EQ bands (003 or 010); P2 = EQ preamp setting (-12 to									
	1 .	015); P3 thru P12 are the setting of each EQ band (-12 to 015). If the number of bands = 003, P6 thru P12 are all zeros.									

ZZEB Se	ts or rea	ds theT	XEQ	values						
Get	ZZEA	;								
Set	ZZEA	P1	P1	P1	P2	P2	P2	P3	P3	P3
		P4	P4	P4	P5	P5	P5	P6	P6	P6
		P7	P7	P7	P8	P8	P8	P9	P9	P9
		P10	P10	P10	P11	P11	P11	P12	P12	P12
		;								
Answer	ZZEA	P1	P1	P1	P2	P2	P2	P3	P3	P3
		P4	P4	P4	P5	P5	P5	P6	P6	P6
		P7	P7	P7	P8	P8	P8	P9	P9	P9
		P10	P10	P10	P11	P11	P11	P12	P12	P12
		;								
Notes	P1 = nu	P1 = number of EQ bands (003 or 010); P2 = EQ preamp setting (-12 to								
	015); P	015); P3 thru P12 are the setting of each EQ band (-12 to 015). If the								
	number	of band	ds = 003	, P6 thr	u P12 aı	e all zei	os.			

ZZER Se	ts or rea	ds the	RX EQ	button	status						
Get	ZZER	•									
Set	ZZER	P1	;								
Answer	ZZER	P1	;								
Notes	P1: 0 =	P1: 0 = OFF, 1 = ON									

ZZET Se	ts or rea	ds the	TX EQ	button	status					
Get	ZZET	;								
Set	ZZET	P1	;							
Answer	ZZET	P1	;							
Notes	P1: 0 = OFF, 1 = ON									

ZZFA Se	ts or rea	ds VFC) A frec	quency						
Get	ZZFA	;								
Set	ZZFA	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Answer	ZZFA	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Notes	P1 = fre	P1 = frequency in Hz (11 digits). Blank digits must be 0. Example:								
	14,320.	14,320.150 = 00014320150.								

ZZFB Se	ts or rea	ds VFC) B frec	uency						
Get	ZZFB	;								
Set	ZZFB	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Answer	ZZFB	P1	P1	P1	P1	P1	P1	P1	P1	P1
		P1	P1	;						
Notes	P1 = fr	P1 = frequency in Hz (11 digits). Blank digits must be 0. Example:								
	14,320	14,320.150 = 00014320150.								

ZZFH Set	ts or rea	ds DSP	Filter I	High						
Get	ZZFH	•								
Set	ZZFH	P1	P1	P1	P1	P1	;			
Answer	ZZFH	P1	P1	P1	P1	P1	;			
Notes	P1 = frequency in Hz -9999 to 09999.									

ZZFI Se	ets or re	ads the	current	DSP re	eceive f	ilter				
Get	ZZFI	;								
Set	ZZFI	P1	P1	;						
Answer	ZZFI	P1	P1	;						
Notes	P1 valı	ues:	lsb/usb/	digl/dig	ı am/	fmn/sar	n/dsb	cwl/cw	u	
	00		5.0K			16K		1.0K		
	01		4.4K			12K		800		
	02		3.8K	- -		10K		750		
	03		3.3K	- -		8.0K		600		
	04		2.9K			6.6K		500		
	05		2.7K			5.2K		400		
	06		2.4K			4.0K		250		
	07		2.1K			3.1K		100		
	08		1.8K			2.9K		50		
	09		1.0K			2.4K		25		
	10		VAF	R1		VAR1		VAR	1	
	11		VAF	R2		VAR2		VAR	2	
	1		default v ustom va				ters. If	you cust	tomize	your

ZZFL Set	s or rea	ds DSP	Filter I	High							
Get	ZZFL	;									
Set	ZZFL	P1	P1	P1	P1	P1	;				
Answer	ZZFL	P1	P1	P1	P1	P1	;				
Notes	P1 = fr	P1 = frequency in Hz -9999 to 09999.									

ZZFM Re	ads the	FlexRa	dio Mod	lel Num	ber							
Get	ZZFM	•										
Set												
Answer	ZZFM	P1	;									
Notes	Read or	Read only. P1: 0 = SDR1000, 1 = FLEX5000.										

ZZGE S	ets or re	ads the	Noise C	ate En	able bu	tton sta	tus			
Get	ZZGE	;								
Set	ZZGE	P1	;							
Answer	ZZGE	P1	;							
Notes	tes P1 = 0 for disabled, 1 for enabled.									

ZZGL S	ets or re	ads the	Noise (Gate Th	reshold	value				
Get	ZZGL	•								
Set	ZZGL	P1	P1	P1	P1	;				
Answer	ZZGL	P1	P1	P1	P1	;				
Notes $P1 = -160$ to 0 (- sign required except for 0000).										

ZZGT S	Sets or re	eads the	AGC t	humbw	heel co	ntrol		_				
Get	ZZGT	;										
Set	ZZGT	P1	;									
Answer	ZZGT	P1	;									
Notes	P1 valu	es:										
	0 = Fix	ed										
	1 = Lor	ng										
	2 = Slo	W										
	3 = Me	3 = Med										
	4 = Fas	t										
	5 = Cus	stom										

ZZID S	ets the t	ranscei	ver iden	tificatio	on to Fl	exRadio)			
Get										
Set	ZZID	;								
Answer										
Notes	ZZID i	ZZID is used to remotely force the transceiver id to 900 FlexRadio).								

ZZHA S	ets or re	ads Auc	dio Buff	er Size						
Get	ZZHA	;								
Set	ZZHA	P1	;							
Answer	ZZHA	P1	;							
Notes	P1: 0 =	P1: 0 = 256, 1 = 512, 2 = 1024, 3 = 2048, 4 = 4096								

ZZHR Se	ets or rea	nds DSF	RX Bu	ıffer Siz	ze					
Get	ZZHR	•								
Set	ZZHR	P1	;							
Answer	ZZHR	P1	;							
Notes	P1: 0 =	P1: 0 = 256, 1 = 512, 2 = 1024, 3 = 2048, 4 = 4096								

ZZHT Se	ts or rea	ds DSF	TX Bu	ffer Siz	e							
Get	ZZHT	•										
Set	ZZHT	ZZHT P1 ;										
Answer	ZZHT	P1	;									
Notes	P1: 0 =	P1: 0 = 256, 1 = 512, 2 = 1024, 3 = 2048, 4 = 4096										

ZZIF R	eads the	FlexRa	adio sta	tus									
Get	ZZIF	;											
Set													
Answer	ZZIF	P1	P1	P1	P1	P1	P1	P1	P1	P1			
	P1	P1	P2	P2	P2	P2	P3	P3	P3	P3			
	Р3	P3 P4 P5 P6 P7 P7 P8 P9 P9											
	P10												
Notes	P2 (4 c) ZZST) P3 (6 c) P4 (1 c) P5 (1 c) P6 (1 c) P7 (2 c) P8 (1 c) P9 (2 c) P10 (1) P11 (1) P12 (1) P13 (1) P14 (2	character charact	rs) Frequency (rs) RIT/str) RIT str r) RIT str) Channers) Channers) Channers) MOX r) Opera er) VFO er) Scan er) VFO er) CTC ers) Mot	XIT free tatus. 0 tatus. 0 hel bank button sting mo Split status. 0 Split status	ep size of quency (= off, 1 = off, 1 number of the number of the status. (de. See of the status. Sa Not important of the status. Sa Not us controls.	(+nnnnn = on. = on. r. Not uer. Not i D = off, i ZZMD ame as I plement me as Z sed, defa	ed in povored in povor	wers of ann). aulted to faulted cransmitings. ays 0). ulted to ulted to	o 0. to 00. ting).				

ZZIS Se	ts or re	ads the	variabl	e filter	width s	lider			ZZIS Sets or reads the variable filter width slider											
Get	ZZIS	;																		
Set	ZZIS	P1	P1	P1	P1	P1	;													
Answer	ZZIS	P1	P1	P1	P1	P1	;													
Notes	P1 = 00000 to 10000.																			

ZZIT So	ets or re	ads the	variabl	e filter	shift sli	der					
Get	ZZIT	;									
Set	ZZIT	P1	P2	P2	P2	P2	 ;				
Answer	ZZIT	P1	P2	P2	P2	P2	;				
Notes	P1 = "	P1 = "+" or "-"									
	P2 = 0	000 to 1	000 (-10	000 to +	1000)						

ZZIU R	esets th	e variat	le filter	shift sl	ider					
Get										
Set	ZZIU	;								
Answer							;			
Notes	Notes Write only									

ZZKS S	ets or rea	ads the	CWX (CW spec	ed					
Get	ZZKS	;								
Set	ZZKS	P1	P1	P1	;					
Answer	ZZKS	P1	P1	P1	;					
Notes P1 = 010 to 060 in WPM										

ZZKY	Sends tex	t to CV	VX for	convers	ion to N	Iorse				
Get	ZZKY	;								
Set	ZZKY	P1	P2	P2	P2	P2	P2	P2	P2	P2
	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2
	P2	P2	P2	P2	P2	P2	;			
Answer	ZZKY	P1	;							
Notes	Get: P1 (>72 ch sent. Set: P1 position	aracters = space	left in l e, P2 up	ouffer), to 24 A	2 = buff SCII pr	er is em	pty and	all code	e has be	en

ZZMA	Sets or re	ads the	Mute ((MUT)	status					
Get	ZZMA	•								
Set	ZZMA	P1	;							
Answer	ZZMA	P1	;							
Notes	P1 = 0 for off, 1 for on.									

ZZMD	Sets or re	ads the	Opera	ting Mo	ode			
Get	ZZMD	•						
Set	ZZMD	P1	P1	;				
Answer	ZZMD	P1	P1	;				
Notes	P1 value 00 = LS 01 = US 02 = DS 03 = CV 04 = CV 05 = FM 06 = AM 07 = DIO 08 = SP 09 = DIO 10 = SA 11 = DR	B B B VL VU IN G G G G G M						

ZZMG	Sets or re	eads th	e Mic g	ain				
Get	ZZMG	;						
Set	ZZMG	P1	P1	P1	;			
Answer	ZZMG	P1	P1	P1	;			
Notes	P1 = 00	0 to 070)	,		,		

ZZMN I	Reads the	DSP Fi	lter na	mes and	l values	3				
Get	ZZMN	P1	P1	;						
Answer	ZZMN	See								
		below								
Notes	P1 Valu	es: The	two-dig	git mode	code (S	See ZZI	MD)			
	1 0	iting all i	the nam ted. Th e chara and 11	nes and l ne 15 cha cters: 1 -15 is th	nigh/low aracter g -5 are is ne low f	values groups a name o	for each are broke of the fil	h filter o en dowi ter butto	containe n into	ed in

ZZMO S	ets or rea	ds the	Monito	r (MON	V) status	5				
Get	ZZMO	;								
Set	ZZMO	P1	;							
Answer	ZZMO	P1	;							
Notes	Notes P1: 0 = OFF, 1 = ON									

ZZMR	Sets or re	eads th	e RX M	eter mo	ode							
Get	ZZMR	;										
Set	ZZMR	P1	;									
Answer	ZZMR	P1	;									
Notes		P1 Values:										
) = Signal Strength										
	1 = Sigr	nal Ave	rage									
	2 = AD0	2 = ADC L										
	3 = AD0	B = ADC R										
	4 = Off											

ZZMS Se	ets or rea	ds the	MultiR	X Swap	checkb	ox				
Get	ZZMS	;								
Set	ZZMS	P1	;							
Answer	ZZMS	P1	;							
Notes	P1: 0 =	P1: 0 = OFF, 1 = ON								

ZZMT	Sets or re	eads th	TX M	leter m	ode			
Get	ZZMT	;						
Set	ZZMT	P1	P1	 ;				
Answer	ZZMT	P1	P1	;				
Notes	P1 Valu	ies:						
	00 = Fo	rward I	ower					
	01 = Re	verse P	ower					
	02 = Mi	C						
	03 = EC)						
	04 = Le	veler						
	05 = Le	v Gain						
	06 = CC	OMP						
	07 = CP							
	08 = AI	LC .						
	09 = AI	C COI	ЛP					
	10 = SV	VR						
	11 = Of	f						

ZZMU S	ets or rea	ds the	MultiR	X butto	n status	5					
Get	ZZMU	;									
Set	ZZMU	P1	;								
Answer	ZZMU	P1	;								
Notes	P1: 0 =	P1: 0 = OFF, 1 = ON									

ZZNA S	Sets or re	ads the	Noise l	Blanker	(NB) s	tatus				
Get	ZZNA	;								
Set	ZZNA	P1	;							
Answer	ZZNA	P1	;							
Notes	P1 = 0.1	P1 = 0 for off, 1 for on.								

ZZNB	Sets or re	ads the	Noise I	Blanker	2 (NB2	e) status	6			
Get	ZZNB	;								
Set	ZZNB	P1	;							
Answer	ZZNB	P1	;							
Notes	P1 = 0	P1 = 0 for off, 1 for on.								

ZZNL S	ets or re	ads the	Noise B	lanker	1 thres	hold (Se	tup DS	P tab)		
Get	ZZNL	•								
Set	ZZNL	P1	P1	P1	;					
Answer	ZZNL	P1	P1	P1	;					
Notes	Notes P1 = 001 to 200.									

ZZNM S	Sets or re	ads the	Noise I	3lanker	2 thre	shold				
Get	ZZNM	;								
Set	ZZNM	P1	P1	P1	P1	;				
Answer	ZZNM	P1	P1	P1	P1	;				
Notes	P1 = 0001 to 1000.									

ZZNR S	ets or re	ads the	Noise F	Reductio	n (NR)	status			
Get	ZZNR	;							
Set	ZZNR	P1	;						
Answer	ZZNR	P1	;						
Notes	P1 = 0 for off, 1 for on.								

ZZNT S	Sets or re	ads the	Auto N	lotch Fi	lter (Al	NF) stat	tus			
Get	ZZNT	;								
Set	ZZNT	P1	;							
Answer	ZZNT	P1	;							
Notes	P1 = 0	P1 = 0 for off, 1 for on.								

ZZOA	Sets or re	ads the	e antenr	ia conn	ected to	RX1 (I	FLEX5	000 only	/)			
Get	ZZOA	;										
Set	ZZOA	COA P1 ;										
Answer	ZZ0A	P1	;									
Notes	P1 Valu	P1 Values: 0 = Ant 1, 1 = Ant 2, 2 = Ant 3, 3 = RX1 In.										

ZZOB S	ets or re	ads the	antenna	a conne	cted to	RX2 (F	LEX50	00 only)			
Get	ZZOB	;										
Set	ZZOB	COB P1 ;										
Answer	ZZ0B	P1	;									
Notes	P1 Valı	P1 Values: Not defined yet, waiting for RX2 testing										

ZZOC	ZZOC Sets or reads the antenna connected to the transmitter (FLEX5000 only)												
Get	ZZOC	•											
Set	ZZOC	P1	;										
Answer	ZZ0C	P1	;										
Notes	P1 Valı	P1 Values: 0 = Ant 1, 1 = Ant 2, 2 = Ant 3.											

ZZOD	ZZOD Sets or reads the current antenna mode (FLEX5000 only)											
Get	ZZOD	;										
Set	ZZOD	P1	;									
Answer	ZZ0D	P1	;									
Notes	P1 Valu	P1 Values: 0 = Simple, 1 = Complex										

ZZOE S	ZZOE Sets or reads the RX1 loop (FLEX5000 only)											
Get	ZZOE	;										
Set	ZZOE	P1	;									
Answer	ZZ0E	P1	;									
Notes	es P1 Values: 0 = Loop Disabled, 1 = Loop Enabled											

ZZOF S	ets or rea	ads the	TX rela	ays enei	rgized o	n trans	mit (FL	EX500	0 only)			
Get	ZZOF	,										
Set	ZZOF	P1	P2	P3	;							
Answer	ZZ0F	P1	P2	P3	;							
Notes	P1 = R0	CATX1	P2 = R	CATX	2, P3 = I	RCATX	3. $1 = I$	Enabled,	0 = Dis	sabled,		
	all posi	all positions must be represented: ZZOF010 = TX2 enabled, TX1 and TX2										
	disable	disabled. ZZOF111 = all enabled, ZZOF000 = all disabled.										

ZZPA Se	ets or rea	ads the	Pream	olifier (Preamp) settin	ıg		
Get	ZZPA	•							
Set	ZZPA	P1	;						
Answer	ZZPA	P1	;						
Notes	P1 valu	es;							
	SDR-10	000	FLEX	5000x					
	0 = Off		0 =	Off					
	1 = Lov	V	1 =	On					
	2 = Me	d							
	3 = Hig	şh							

ZZPC So	ets or rea	ads the	PA Dri	ve level						
Get	ZZPC	•								
Set	ZZPC	P1	P1	P1	 ;					
Answer	ZZPC	P1	P1	P1	;					
Notes	P1 = 000 to 100									

ZZPD S	ets the D	isplay I	Pan Cen	iter but	ton			
Set	ZZPD	;						
Notes	Write-c	nly						

ZZPK Se	ts or rea	ds Con	npresso	r (COM	IP) statı	นร		
Get	ZZPK	;						
Set	ZZPK	P1	;					
Answer	ZZPK	P1	;					
Notes	P1 = 0	for off,	1 for on	•				•

ZZPL S	ZZPL Sets or reads the Speech Compressor threshold											
Get	ZZPL	;										
Set	ZZPL	P1	P1	;								
Answer	ZZPL	P1	P1	;								
Notes	P1 = 00) to 20.							•			

ZZPO S	ets or rea	ads the	Display	Peak b	utton					
Get	ZZPO	•								
Set	ZZPO	P1	;							
Answer	ZZPO	P1	;							
Notes	P1 = 0	P1 = 0 for Off, 1 for On								

ZZPS Se	ts or rea	ds the	Start bu	itton						
Get	ZZPS	;								
Set	ZZPS	P1	;							
Answer	ZZPS	P1	;							
Notes	P1 = 0	P1 = 0 for Off, 1 for On								

ZZPZ So	ets or rea	ads the	Display	Zoom	buttons					
Get	ZZPZ	;								
Set	ZZPZ	P1	;							
Answer	ZZPZ	P1	;							
Notes	P1: 0 =	P1: 0 = 0.5X, 1 = 1X, 2 = 2X, 3 = 4X								

ZZQM	Reads the Quick Save Memory 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	ZZQR Restores the Quick Save Memory (QR)											
Get												
Set	ZZQR	;										
Answer												
Notes	ZZQR i	ZZQR is write-only										

ZZQS Saves VFO A frequency to Quick Memory											
Set	ZZQR ;										
Notes	Write-only	·									

ZZRC Clears the RIT frequency											
Set	ZZRC	;									
Notes	Write-on	ıly									

ZZRF Se	ZZRF Sets or reads the RIT frequency												
Get	ZZRF;												
Set	ZZRF	P1	P2	P2	P2	P2	;						
Answer	ZZRF	P1	P2	P2	P2	P2	;						
Notes	P1 = po	P1 = polarity (+ or -)											
	P2 = fre	P2 = frequency in Hz.											

ZZRM	Reads the	Cons	ole met	er value	es								
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												
	0 = Sign) = Signal Strength											
	1 = Ave	1 = Average Strength											
	2 = AD0	2 = ADC_L											
	3 = AD0	3 = ADC_R											
	4 = ALC	4 = ALC											
	5 = For	ward P	ower										
	6 = Peal	k Powe	r										
	7 = Rev	erse Po	wer										
	8 = SW	R											
	P2 is pa	dded le	eft with	spaces.									
		P2 is padded left with spaces.											
	ZZRM	ZZRM is read-only.											
****	Develop	Developers: P1 0-3 are functional, balance needs rewrite for new meter											
	function	is in th	e transm	it mode									

ZZRT Se	ZZRT Sets or reads the RIT enable button status											
Get	ZZRT	;										
Set	ZZRT	P1	;									
Answer	ZZRT	P1	;									
Notes	P1 = 0	P1 = 0 for Off, 1 for On										

ZZSA Moves VFO A down one Tune Step													
Set	ZZSA	;											
Notes	Write-c	Write-only											

ZZSB M	ZZSB Moves VFO A up one Tune Step											
Set	ZZSB	;										
Notes	Write-o	nly				•						

ZZSD Decrements the Tune Step											
Set	ZZSD	;									
Notes	Write-c	nly									

ZZSF Set	ZZSF Sets the variable filter width and center (KD5TFD filters)											
Get												
Set	ZZSF	P1	P1	P1	P1	P2	P2	P2	P2	;		
Answer												
Notes	P1 = ce	P1 = center frequency in Hz.										
	P2 = w	P2 = width in Hz.										
	ZZSF is write-only.											

ZZSM R	ZZSM Reads the S-Meter											
Get	ZZSM	P1	;									
Set												
Answer	ZZSM	P1	P2	P2	P2	;						
Notes	P1 = 0											
	P2 = 00	P2 = 000 to 260										
	Each increment of ZZSM is approximately equal to 0.5 dBm.											

ZZSO So	ets or rea	ads the	Squelcl	n 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 S _I	olit (SP	LT) stat	tus		
Get	ZZSP	;						
Set	ZZSP	P1	;					
Answer	ZZSP	P1	;					
Notes	P1 = 0	for off,	1 for on					

ZZSQ Se	ts or rea	ds the	Squelch	contro	l					
Get	ZZSQ	•								
Set	ZZSQ	P1	P1	P1	;					
Answer	ZZSQ	P1	P1	P1	;					
Notes	P1 = 000 to 160.									

ZZSR So	ets or re	ads the	Spur R	eductio	n butto	n status	6			
Get	ZZSR	;								
Set	ZZSR	P1	;							
Answer	ZZSR	P1	;							
Notes	P1 = 0 for OFF, 1 for ON.									

ZZST Re	eads the	frequer	ıcy step	size						
Get	ZZST	;								
Set										
Answer	ZZST	P1	P1	P1	P1	;				
Notes	P1 valu	es are e	xpressec	l in BCI) power	s of 10	except f	or non-	decade	
	frequen	cies:								
	0000 =	10e0 =	1 Hz							
	0001 =	10e1 =	10 Hz							
	1000 =	special	default f	for 50 H	Z					
	0010 =	10e2 =	100 Hz							
	1001 =	special	default f	for 250 l	Hz					
	1010 =	special	default f	for 500 l	Hz					
	0011 =	10e3 =	1 kHz							
	1011 =	special	default f	for 5 kH	Z					
	1010 =	special	default f	for 9 kH	Z					
	0100 =	10e4 =	10 kHz							
	0101 =	10e5 =	100 kHz	Z						
	0110 =	10e6 =	1 mHz							
	0111 =	10e7 =	10 mHz							
	ZZST is	s read-o	nly.							

ZZSU In	crements	s the T	une Ste	 р			
Set	ZZSU	•					
Notes	Write-or	nly					

ZZTF Se	ets or rea	ads the	Show T	X Filte	r check	box sta	tus			
Get	ZZTF	;								
Set	ZZTF	P1	;							
Answer	ZZTF	P1	;							
Notes	P1 = 0 for disabled, 1 for enabled.									

ZZTH Se	ts or rea	ds the	TX Filt	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.										

ZZTL Se	ts or rea	ds the [ΓX Filte	er Low	setting			
Get	ZZTL	•						
Set	ZZTL	P1	P1	P1	P1	 ;		
Answer	ZZTL	P1	P1	P1	P1	;		
Notes	P1 = 00	000 to 20	000.					

ZZTP Se	ts or rea	ds the	Гransm	it Profi	le								
Get	ZZTP	;											
Set	ZZTP	P1	P1	;									
Answer	ZZTP	P1	P1	;									
Notes	P1: 0 =	P1: 0 = Conventional											
	1 =	1 = DX/Contest											
	2 =	2 = ESSB											
	3 =	3 = AM											
	Above	Above only correct if no custom profiles saved. P1 is equal to the index											
	value o	value of the profile name in the Transmit Profile drop down list.											

ZZTU Se	ts or rea	ds the [Гune (Т	UN) sta	atus							
Get	ZZTU	•										
Set	ZZTU	TU P1 ;										
Answer	ZZTU	P1	;									
Notes	P1 = 0 1	P1 = 0 for off, 1 for on. Console power must be on for TUN to function.										

ZZTX Se	ts or rea	ds the	MOX b	utton st	atus					
Get	ZZTX	•								
Set	ZZTX	P1	;							
Answer	ZZTX	P1	;							
Notes	P1 = 0 for off, 1 for on.									

ZZUA R	eads the	XVTR	Band B	utton N	lames							
Get	ZZUA	;										
Answer	ZZUA	P1	P1	P1	P1	P1	P2	P2	P2	P2		
	P2	P3	P3	P3	P3	P3	P4	P4	P4	P4		
	P4	P5	P5	P5	P5	P5	P6	P6	P6	P6		
	P6	P7	P7	P7	P7	P7	P8	P8	P8	P8		
	P8	P9	P9	P9	P9	P9	P10	P10	P10	P10		
	P10	P11	P11	P11	P11	P11	P12	P12	P12	P12		
	P12	P13	P13	P13	P13	P13	P14	P14	P14	P14		
	P14	P14 ;										
Notes	P1 thru P14 equal exactly 70 character spaces and must contain either an											
	ASCII o	ASCII character or a space. Each group of five characters contains the										
	name of	name of the corresponding n-1 XVTR button name: P1 = button 0.										

ZZVA Se	ets or rea	ds the	VAC bu	ıtton sta	atus	_					
Get	ZZVA	;									
Set	ZZVA	P1	;								
Answer	ZZVA	P1	;								
Notes	P1 = 0 f	P1 = 0 for OFF, 1 for ON.									

ZZVB Se	ts or rea	ds the `	VAC R	X Gain							
Get	ZZVB	;									
Set	ZZVB	P1	P1	P1	;						
Answer	ZZVB	P1	P1	P1	;						
Notes	P1 = -4	P1 = -40 to +20 (positive values must lead with sign or "0"									

ZZVC Se	ts or rea	ds the	VAC T	X Gain							
Get	ZZVC	;									
Set	ZZVC	P1	P1	P1	;						
Answer	ZZVC	P1	P1	P1	;						
Notes	P1 = -4	P1 = -40 TO +20 (positive value must lead with sign or "0"									

ZZVD Se	ets or rea	ds the	VAC Sa	mple R	ate		1	
Get	ZZVD	;						
Set	ZZVD	P1	;					
Answer	ZZVD	P1	;					
Notes	P1:	·	·	·	·	·		
	0 = 600	0						
	1 = 800	0						
	2 = 110	25						
	3 = 120	00						
	4 = 240	00						
	5 = 220	50						
	6 = 441	00						
	7 = 480	00						

ZZVE S	ets or re	ads the	VOX b	utton st	atus					
Get	ZZVE	•								
Set	ZZVE	P1	;							
Answer	ZZVE	P1	;							
Notes	P1 = 0	P1 = 0 for OFF, 1 for ON.								

ZZVF Se	ts or rea	ds the `	VAC St	ereo bu	tton sta	tus				
Get	ZZVF	;								
Set	ZZVF	P1	;							
Answer	ZZVF	P1	;							
Notes	P1 = 0	P1 = 0 for OFF, 1 for ON.								

ZZVG S	ets or re	ads the	VOX (Gain val	lue					
Get	ZZVG	;								
Set	ZZVG	P1	P1	P1	P1	;				
Answer	ZZVG	P1	P1	P1	P1	;				
Notes	P1 = 0000 to 1000.									

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

ZZVN R	eads the	Power	SDR so	ftware v	version	numbe	r					
Get	ZZVN	;										
Set												
Answer	ZZVN	ZVN P1 ;										
Notes	Returns	Returns ZZVN001.3.14.0; ten total characters including decimal points.										

ZZVS Se	ets the V	FO Sw	ap stat	us			
Get							
Set	ZZVS	P1	;				
Answer							
Notes	P1 valu	es:					
	0 = A > 1	В					
	1 = A < 1	В					
	2 = A < 2	>B					
	ZZVS i	s write	-only.				

ZZXC	Clears the	XIT fr	equenc	y (XIT	0])			
Set	ZZXC	;						
Notes	ZZXC i	s 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.								

ZZXS Sets or reads the XIT enable button									
Get	ZZXS	;							
Set	ZZXS	P1] ;						
Answer	ZZXS	P1	;						
Notes	P1: 0 = Off, 1 = On.								
ZZXT Sets or reads the External Control (X2TR) button status									
Get	ZZXT	;							
Set	ZZXT	P1	;						
Answer	ZZXT	P1	;						
Notes	P1 = 0 1	P1 = 0 for OFF, 1 for ON.							

ZZZB Clicks the Zero Beat (0 Beat) button									
Set	ZZZB	,							
Notes	Write-o	nly.							

FLEXRADIO CAT COMMAND REVISION RECORD

January 3, 2006 Revisions:

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

February 25, 2007 Revisions

Added DN and UP commands. Added special codes in ZZST for new console step size frequencies. Corrected various typos.

March 20, 2007 Revisions:

Added:	ZZAR	AGC RF GAIN
	ZZBR	BCI REJECTION
	ZZCB	BREAK IN ENABLE
	ZZCD	BREAK IN DELAY
	ZZCF	SHOW CW TX FREQ
	ZZCI	IAMBIC ON/OFF
	ZZCM	CW MONITOR ON/OFF
	ZZCT	COMPANDER THRESHOLD VALUE
	ZZGE	NOISE GATE ENABLE BUTTON
	ZZGL	NOISE GATE LEVEL VALUE
	ZZSR	SPUR REDUCTION ON/OFF
	ZZTF	SHOW TX FILTER
	ZZVA	VAC ON/OFF
	ZZVE	VOX ENABLE
	ZZVG	VOX GAIN VALUE
	ZZXT	X2TR ON/OFF

Updated: ZZFI (DSP Rx Filters) to reflect current console values.

(Dictionary update only, no change to CAT code).

April 4, 2007 Revisions:

Updated: GT AGC Gain ZZIU Filter Slider

ZZMT TX Meter Functions

Obsolete: FW DSP Filter Width

August 25, 2007 Revisions:

Updated MD Added MD9 for DigU

Added KY Send Morse

KS Get/Set Morse speed

September 16, 2007 Changes:

Updated GT Added 005 for "Custom" ZZIF Removed P1 to match IF

ZZMT Added new meter functions
ZZPA Added FLEX5000 values

ZZVS Added IF -> V

Added:

ZZBD Moves the bandswitch down one band

ZZBU Moves the bandswitch up one band

ZZER Sets or reads the RXEQ button status

ZZET Sets or reads the TXEQ button status

ZZFA Sets or reads VFO A

ZZFB Sets or reads VFO B

ZZKS Sets or reads CWX CW speed

ZZKY Sends text to CWX for conversion to Morse

ZZMG Sets or reads the Mic gain

ZZMO Sets or reads the Monitor (MON) button status

ZZMS Sets or reads the MultiRX swap checkbox status

ZZMT Sets or reads the TX Meter mode

ZZMU Sets or reads the MultiRX button status

ZZNA Sets or reads Noise Blanker 1 button status

ZZNT Sets or reads the Auto Notch Filter button status

ZZPC Sets or reads the Drive level

ZZPD Sets the Display Pan Center button

ZZPK Sets or reads the Compressor (COMP) button status

ZZPL Sets or reads the Compressor Threshold

ZZPA Sets or reads the Preamp gain

ZZPO Sets or reads the Display Peak button status

ZZPS Sets or reads the Power button status

ZZPZ Sets or reads the Display Zoom buttons

ZZQS Saves the quick save memory value

ZZRC Clears the RIT frequency

ZZRT Sets or reads the RIT button status

ZZSA Moves VFO A down one Tune Step

ZZSB Moves VFO A up one Tune Step

ZZSD Moves the mouse wheel tuning step down

ZZSU Moves the mouse wheel tuning step up

ZZTP Sets or reads the TX Profile

ZZTX Sets or reads the MOX button status
ZZXS Sets or reads the XIT button status

ZZZB Zero beats the current signal

September 26, 2007 Changes:

Added ZZFH Set TX Filter High

ZZFL Set TX Filter Low

Corrected minor typos.

October 18, 2007 Changes:

Added ZZHA Sets/reads Audio Buffer Size

ZZHR Sets/reads DSP RX Buffer Size ZZHT Sets/reads DSP TX Buffer Size

October 20, 2007 Changes:

Added: ZZFM Reads the FlexRadio Model Number.

October 23, 2007 Changes:

Added ZZEA Reads or sets the RX EQ

ZZEB Reads or sets the TX EQ

October 25, 2007 Changes:

Corrected duplicate. ZZFL/ZZFH now read DSP Filter Hi/Lo

ZZTL/ZZTH still read TX Filter Hi/Lo

October 31, 2007 Changes:

Added ZZVB Reads or sets the VAC RX Gain

ZZVC Reads or sets the VAC TX Gain
ZZVD Reads or sets the VAC Sample Rate
ZZVF Reads or sets the VAC Stereo button

November 21, 2007 Changes:

Added: ZZUA Reads the XVTR Band Button Names

Changed: ZZBS Added VHF XVTR band buttons to command.

November 29, 2007 Changes:

Added: ZZOA Reads or sets the antenna connected to RX1

ZZOB Reads or sets the antenna connected to RX2

ZZOC Reads or sets the antenna connected to the transmitter

ZZOD Reads or sets the current antenna mode

ZZOE Reads or sets the RX1 Loop

ZZOF Reads or sets the RCA TX relay jacks

ZZMN Reads the DSP filter names and values

December 4, 2007 Changes:

Added AI Reads or sets the Auto Information function

ZZAI Same as above

December 12, 2007 Changes:

Modified: KY KY1 represents >72 characters in the buffer

ZZKY Added KY2: buffer empty and all chars sent

January 16, 2008 Changes:

Added ZZDX Sets or reads the Phone DX button status