



FT DX 9000 SERIES

CAT オペレーションマニュアル



通信フォーマット

◎ コマンドの送出方法

パーソナルコンピュータによりコマンドを送り本機をコントロールすることができます。

- ターミナルソフトを利用する方法
- BASICなどの言語でプログラミングする方法

◎ 通信データの構成

通信フォーマットは 4800bps, 調歩同期方式でスタートビット1, データビット8, ストップビット2, パリティはありません。

アドバイス 4800bps以外の通信フォーマットをメニューモードの「GENERAL 34 CAT RATE」により変更することができます。9600bps, 19200bps, 38400bpsに設定することができます。

◎ コマンドの種類

コマンドには、設定・読み込み・応答の3種類のコマンドがあります。

1. 入力コマンド(設定コマンド)

パーソナルコンピュータにより本体の設定制御を行うコマンドです。

2. 入力コマンド(読み込みコマンド)

パーソナルコンピュータにより本体の応答コマンドを要求するコマンドです。

3. 出力コマンド(応答コマンド)

本体より出力する応答コマンドです。

◎ CATシステムの使用例

外部コンピュータより制御する例として、MAIN(VFO-A)に周波数をセットする場合と、メモリーチャンネルにメモリーする場合を下記に示します。

例 MAIN(VFO-A)に“14,250.00MHz”の周波数を設定する場合

FA 14250000 ;
↑ ↑ ↑
コマンド パラメータ ターミネータ

- コマンド 2文字の英文字で構成し、大文字/小文字どちらでも認識します。
- パラメータ 0～9の数値を入力します。各コマンドによって桁数が変わりますので正確に入力してください。
- ターミネータ セミコロン(;)を入力すると終了コマンドを意味します。

◎ エラーメッセージ

本機側でエラーが生じた場合は、

- ?; のコマンドをパーソナルコンピュータへ送ります。
- コマンドのフォーマットが異なる場合
- 受け取ったコマンドを実行できない状態などの場合

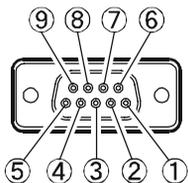
ご注意 一般的にパーソナルコンピュータは、雑音を発生する可能性があります。本機とパーソナルコンピュータを接続すると、この雑音により受信が妨害されることがあります。

このような場合には、ホットカプラやノイズフィルター等を通して接続してください。

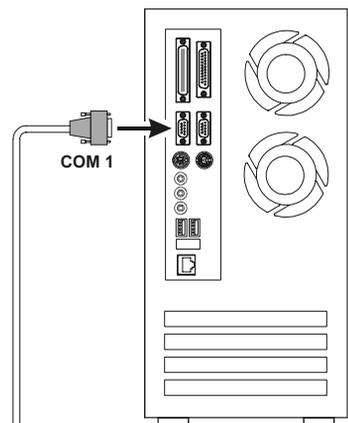
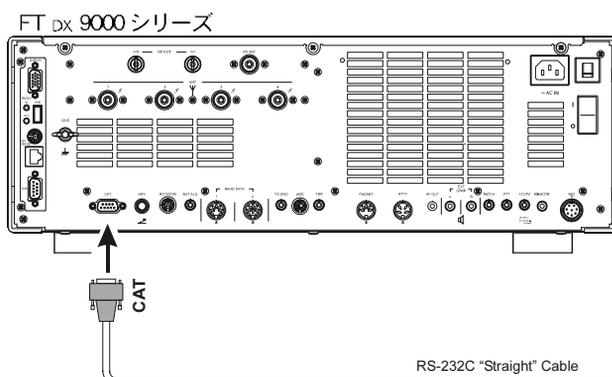
また、アンテナに直接混入する場合には、本機とパーソナルコンピュータをできるだけ離してお使いください。

CAT 端子

Pin	端子	方向	備考
①	—		内部で④⑥と接続
②	SERIAL OUT	出力	無線機からのリアルデータをパソコンに出力
③	SERIAL IN	入力	パソコンからのリアルデータを無線機に出力
④	—		内部で①⑥と接続
⑤	GND		グランド
⑥	—		内部で①④と接続
⑦	RTS	入力	パソコンが受信データを受け入れない時は“L”レベルを出力して、無線機から送信データ出力を禁止します
⑧	CTS	出力	無線機が受信データを受け入れない時は“L”レベルを出力して、パソコンから送信データ出力を禁止します
⑨	NC		無配線



FT DX 9000 の CAT 端子とパーソナルコンピュータの COM1 を RS-232C ストレートケーブルで接続します。



パーソナルコンピュータ

CAT コントロールコマンド一覧表

コマンド	機能	設定	読出	応答	AI	コマンド	機能	設定	読出	応答	AI
AB	VFO-A TO VFO-B	0	X	X	X	MK	MODE KEY	0	X	X	X
AC	ANTENNA TUNER CONTROL	0	0	0	0	ML	MONITOR LEVEL	0	0	0	0
AG	AF GAIN	0	0	0	0	MR	MEMORY READ	X	0	0	X
AI	AUTO INFORMATION	0	0	0	X	MS	METER SW	0	0	0	0
AL	AF LIMITER	0	0	0	0	MW	MEMORY WRITE	0	X	X	X
AM	VFO-A TO MEMORY CHANNEL	0	X	X	X	MX	MOX SET	0	0	0	0
AN	ANTENNA NUMBER	0	0	0	0	NA	NARROW	0	0	0	0
BA	VFO-B TO VFO-A	0	X	X	X	NB	NOISE BLANKER	0	0	0	0
BC	AUTO NOTCH	0	0	0	0	NL	NOISE BLANKER LEVEL	0	0	0	0
BD	BAND DOWN	0	X	X	X	NR	NOISE REDUCTION	0	0	0	0
BI	BREAK-IN	0	0	0	0	OI	OPPOSITE BAND INFORMATION	X	0	0	X
BP	MANUAL NOTCH	0	0	0	0	OS	OFFSET (REPEATER SHIFT)	0	0	0	0
BS	BAND SELECT	0	X	X	X	PA	PRE-AMP (IPO)	0	0	0	0
BU	BAND UP	0	X	X	X	PB	PLAY BACK	0	0	0	X
BY	BUSY	X	0	0	0	PC	POWER CONTROL	0	0	0	0
CA	CLASS-A	0	0	0	0	PL	SPEECH PROCESSOR LEVEL	0	0	0	0
CH	CHANNEL UP/DOWN	0	X	X	X	PR	SPEECH PROCESSOR	0	0	0	0
CM	ACM	0	0	0	0	PS	POWER SWITH	0	0	0	X
CN	CTCSS NUMBER	0	0	0	0	QI	QMB STORE	0	X	X	X
CO	CONTOUR	0	0	0	0	QR	QMB RECALL	0	X	X	X
CS	CW SPOT	0	0	0	0	QS	QUICK SPLIT	0	X	X	X
CT	CTCSS	0	0	0	0	RA	RF ATTENUATOR	0	0	0	0
DA	DIMMER	0	0	0	X	RC	CLAR CLEAR	0	X	X	X
DN	DOWN	0	X	X	X	RD	CLAR DOWN	0	X	X	X
DP	DISPLAY	0	0	0	0	RF	ROOFING FILTER	0	0	0	0
DS	DIMMER SWITCH	0	0	0	0	RG	RF GAIN	0	0	0	0
ED	ENCORDER DOWN	0	X	X	X	RI	RADIO INFORMATION	X	0	0	0
EK	ENT KEY	0	X	X	X	RL	NOISE REDUCTION LEVEL	0	0	0	0
EU	ENCORDER UP	0	X	X	X	RM	READ METER	X	0	0	0
EX	MENU	0	0	0	0	RO	ROTATOR	0	0	0	X
FA	FREQUENCY VFO-A	0	0	0	0	RS	RADIO STATUS	X	0	0	0
FB	FREQUENCY VFO-B	0	0	0	0	RT	CLAR	0	0	0	0
FK	FUNCTION KEY	0	X	X	X	RU	CLAR UP	0	X	X	X
FR	FUNCTION RX	0	0	0	0	SC	SCAN	0	0	0	0
FS	FAST STEP	0	0	0	0	SD	SEMI BREAK-IN DELAY TIME	0	0	0	0
FT	FUNCTION TX	0	0	0	0	SF	SUB-DIAL FUNCTION	0	0	0	0
GT	AGC FUNCTION	0	0	0	0	SH	WIDTH	0	0	0	0
ID	IDENTIFICATION	X	0	0	X	SM	S METER	X	0	0	0
IF	INFORMATION	X	0	0	0	SQ	SQUELCH LEVEL	0	0	0	0
IS	IF-SHIFT	0	0	0	0	SV	SWAP VFO	0	X	X	X
KC	KEY COMMAND	0	0	0	0	TS	TXW	0	0	0	0
KM	KEYER MEMORY	0	0	0	X	TX	TX SET	0	0	0	0
KP	KEY PITCH	0	0	0	0	UL	UNLOCK	X	0	0	0
KR	KEYER	0	0	0	0	UP	UP	0	X	X	X
KS	KEY SPEED	0	0	0	0	VD	VOX DELAY TIME	0	0	0	0
KY	CW KEYING	0	X	X	X	VF	VRF FILTER	0	0	0	0
LK	LOCK	0	0	0	0	VG	VOX GAIN	0	0	0	0
LM	LOAD MESSEGE	0	0	0	X	VM	[V/M] KEY FUNCTION	0	X	X	X
MA	MEMORY CHANNEL TO VFO-A	0	X	X	X	VS	VFO SELECT	0	0	0	0
MC	MEMORY CHANNEL	0	0	0	X	VX	VOX	0	0	0	0
MD	MODE	0	0	0	0	XT	TX CLAR	0	0	0	0
MG	MIC GAIN	0	0	0	0						

CATコントロールコマンドテーブル

CATコマンドの見かた

Set: パーソナルコンピュータ → FTDX9000 の設定コマンド
 Read: パーソナルコンピュータ → FTDX9000 の状態読み出し要求コマンド
 Answer: FTDX9000 → パーソナルコンピュータの状態出力

コマンドの名称が記載されています。

AC	ANTENNA TUNER CONTROL											
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Fixed P2 0: Fixed	P3 0: Tuner "OFF" 1: Tuner "ON" 2: Tuning Start
	A	C	P1	P2	P3	:						
Read	1	2	3	4	5	6	7	8	9	10		
	A	C	:									
Answer	1	2	3	4	5	6	7	8	9	10		
	A	C	P1	P2	P3	:						

コマンドが空欄の場合は、コマンド設定がないことを示します。
 パラメータがない場合は、パラメータが必要ないことを示します。

パラメータの説明が記載されています。

CAT コントロールコマンドテーブル

AB	VFO-A TO VFO-B										
Set	1	2	3	4	5	6	7	8	9	10	
	A	B	;								
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

AC	ANTENNA TUNER CONTROL										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Fixed P3 0: Tuner "OFF"
	A	C	P1	P2	P3	;					P2 0: Fixed 1: Tuner "ON"
Read	1	2	3	4	5	6	7	8	9	10	
	A	C	;								2: Tuning Start
Answer	1	2	3	4	5	6	7	8	9	10	
	A	C	P1	P2	P3	;					

AG	AF GAIN										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver
	A	G	P1	P2	P2	P2	;				1: Sub (VFO-B) Band Receiver
Read	1	2	3	4	5	6	7	8	9	10	P2 000 - 255
	A	G	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	A	G	P1	P2	P2	P2	;				

AI	AUTO INFORMATION										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Auto Information "OFF"
	A	I	P1	;							1: Auto Information "ON"
Read	1	2	3	4	5	6	7	8	9	10	
	A	I	;								・ 無線機の状態が変化したとき AI に該当するコマンドを PC に送出します。
Answer	1	2	3	4	5	6	7	8	9	10	
	A	I	P1	;							・ 電源を切ると AI は OFF になります。

AL	AF LIMITER										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver
	A	L	P1	P2	;						1: Sub (VFO-B) Band Receiver
Read	1	2	3	4	5	6	7	8	9	10	P2 0: AF Limiter "OFF"
	A	L	P1	;							1: AF Limiter "ON"
Answer	1	2	3	4	5	6	7	8	9	10	
	A	L	P1	P2	;						

AM	VFO-A TO MEMORY CHANNEL										
Set	1	2	3	4	5	6	7	8	9	10	
	A	M	;								
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

AN	ANTENNA NUMBER										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band P2 1: ANT "1" P3 1: ANT "1" P4 0: ANT "RX" "OFF"
	A	N	P1	P2	;						1: Sub (VFO-B) Band 2: ANT "2" 2: ANT "2" 1: ANT "RX" "ON"
Read	1	2	3	4	5	6	7	8	9	10	
	A	N	P1	;							3: ANT "3" 3: ANT "3"
Answer	1	2	3	4	5	6	7	8	9	10	
	A	N	P1	P3	P4	;					4: ANT "4" 4: ANT "4"
											5: ANT "RX" "ON/OFF"

BA	VFO-B TO VFO-A										
Set	1	2	3	4	5	6	7	8	9	10	
	B	A	;								
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

BC	AUTO NOTCH										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver
	B	C	P1	P2	;						1: Sub (VFO-B) Band Receiver
Read	1	2	3	4	5	6	7	8	9	10	P2 0: Auto Notch "OFF"
	B	C	P1	;							1: Auto Notch "ON"
Answer	1	2	3	4	5	6	7	8	9	10	
	B	C	P1	P2	;						

CATコントロールコマンドテーブル

BD	BAND DOWN										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band 1: Sub (VFO-B) Band
	B	D	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	B	D	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	

BI	BREAK-IN										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Break-in "OFF" 1: Break-in "ON"
	B	I	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	B	I	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	B	I	P1	;							

BP	MANUAL NOTCH										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver P3 P2=0 1: Sub (VFO-B) Band Receiver 000: OFF 001: ON P2 0: Manual NOTCH "ON/OFF" P2=1 1: Manual NOTCH LEVEL 001 - 400 (NOTCH Frequency: x 10 Hz)
	B	P	P1	P2	P3	P3	;				
Read	1	2	3	4	5	6	7	8	9	10	
	B	P	P1	P2	;						
Answer	1	2	3	4	5	6	7	8	9	10	
	B	P	P1	P2	P3	P3	;				

BS	BAND SELECT										
Set	1	2	3	4	5	6	7	8	9	10	P1 00: 1.8 MHz 06: 18 MHz 01: 3.5 MHz 07: 21 MHz 02: 5 MHz 08: 24.5 MHz 03: 7 MHz 09: 28 MHz 04: 10 MHz 10: 50 MHz 05: 14 MHz 11: GEN
	B	S	P1	P1	;						
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

BU	BAND UP										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band 1: Sub (VFO-B) Band
	B	U	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

BY	BUSY										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band BUSY "OFF" 1: Main (VFO-A) Band BUSY "ON" P2 0: Sub (VFO-B) Band BUSY "OFF" 1: Sub (VFO-B) Band BUSY "ON"
	B	Y	;								
Read	1	2	3	4	5	6	7	8	9	10	
	B	Y	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	B	Y	P1	P2	;						

CA	CLASS-A										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: CLASS-A Operation "ON" and "OFF" 1: BIAS LEVEL P2 P1=0 000: CLASS-A Operation "OFF" 001: CLASS-A Operation "ON" P1=1 001 - 255
	C	A	P1	P2	P2	P2	;				
Read	1	2	3	4	5	6	7	8	9	10	
	C	A	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	C	A	P1	P2	P2	P2	;				

CH	CHANNEL UP/DOWN										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Memory Channel "UP" 1: Memory Channel "DOWN"
	C	H	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

CM	ACM										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: ACM "OFF" 1: ACM "ON"
	C	M	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	C	M	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	C	M	P1	;							

CATコントロールコマンドテーブル

CN	CTCSS TONE FREQUENCY										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver 1: Sub (VFO-B) Band Receiver P2 0 - 49: Tone Frequency Number (表 1 参照)
	C	N	P1	P2	P2	;					
Read	1	2	3	4	5	6	7	8	9	10	
	C	N	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	C	N	P1	P2	P2	;					

CO	CONTOUR/APF										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver 1: Sub (VFO-B) Band Receiver P2 0: CONTOUR/APF "ON/OFF" 1: CONTOUR FREQ P3 P2=0, 00: CONTOUR/APF "OFF" 01: CONTOUR "ON" 02: APF "ON" P2=1, 01 - 40 (CONTOUR Frequency)
	C	O	P1	P2	P3	P3	;				
Read	1	2	3	4	5	6	7	8	9	10	
	C	O	P1	P2	;						
Answer	1	2	3	4	5	6	7	8	9	10	
	C	O	P1	P2	P3	P3	;				

CS	CW SPOT										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: OFF 1: ON
	C	S	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	C	S	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	C	S	P1	;							

CT	CTCSS										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver 1: Sub (VFO-B) Band Receiver P2 0: CTCSS "OFF" 1: CTCSS ENC/DEC "ON" 2: CTCSS ENC "ON"
	C	T	P1	P2	;						
Read	1	2	3	4	5	6	7	8	9	10	
	C	T	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	C	T	P1	P2	;						

DA	DIMMER										
Set	1	2	3	4	5	6	7	8	9	10	P1 00 - 15: VFD Backlight Brightness Level P2 00 - 15: Meter (except VFD) Brightness Level
	D	A	P1	P1	P2	P2	;				
Read	1	2	3	4	5	6	7	8	9	10	
	D	A	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	D	A	P1	P1	P2	P2	;				

DN	MIC DWN										
Set	1	2	3	4	5	6	7	8	9	10	
	D	N	;								
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

DP	DISPLAY										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: World Clock Display 1: Band Scope Display 2: AF Oscilloscope/Spectrum Analyzer Display 3: Log Book Display 4: Temperature/SWR Display 5: Rotator Display 6: Memory Channel List Display ※: データマネージメントユニット が搭載されている場合に限り有 効です。
	D	P	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	D	P	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	D	P	P1	;							

DS	DIMMER SWITCH										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: DIMMER "OFF" 1: DIMMER "ON"
	D	S	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	D	S	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	D	S	P1	;							

表 1

CTCSS TONE CHART											
00	67.0 Hz	09	91.5 Hz	18	123.0 Hz	27	162.2 Hz	36	189.9 Hz	45	229.1 Hz
01	69.3 Hz	10	94.8 Hz	19	127.3 Hz	28	165.5 Hz	37	192.8 Hz	46	233.6 Hz
02	71.9 Hz	11	97.4 Hz	20	131.8 Hz	29	167.9 Hz	38	196.6 Hz	47	241.8 Hz
03	74.4 Hz	12	100.0 Hz	21	136.5 Hz	30	171.3 Hz	39	199.5 Hz	48	250.3 Hz
04	77.0 Hz	13	103.5 Hz	22	141.3 Hz	31	173.8 Hz	40	203.5 Hz	49	254.1 Hz
05	79.7 Hz	14	107.2 Hz	23	146.2 Hz	32	177.3 Hz	41	206.5 Hz	—	—
06	82.5 Hz	15	110.9 Hz	24	151.4 Hz	33	179.9 Hz	42	210.7 Hz	—	—
07	85.4 Hz	16	114.8 Hz	25	156.7 Hz	34	183.5 Hz	43	218.1 Hz	—	—
08	88.5 Hz	17	118.8 Hz	26	159.8 Hz	35	186.2 Hz	44	225.7 Hz	—	—

CATコントロールコマンドテーブル

ED	ENCORDER DOWN										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: MAIN ENCORDER 1: SUB ENCORDER P2 01-99: Steps
	E	D	P1	P2	P2	;					
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

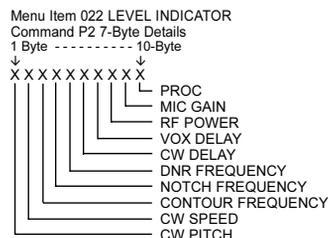
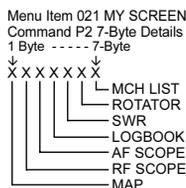
EK	ENT KEY										
Set	1	2	3	4	5	6	7	8	9	10	
	E	K	;								
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

EU	ENCORDER UP										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: MAIN ENCORDER 1: SUB ENCORDER P2 01-99: Steps
	E	U	P1	P2	P2	;					
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

EX	MENU										
Set	1	2	3	4	5	6	7	8	nn	**	P1 : 001-179 (MENU Number) P2 : Parameter (表 2, 表 3, 表 4 を参照)
	E	X	P1	P1	P1	P2	P2	~	P2	;	
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	nn	**	
	E	X	P1	P1	P1	P2	P2	~	P2	;	

表 2

P1	FUNCTION	P2	P2 BYTE
001	MAIN BAND AGC FAST DELAY	0020 ~ 4000 msec (20 msec/step)	4
002	MAIN BAND AGC FAST HOLD	0000 ~ 2000 msec (20 msec/step)	4
003	MAIN BAND AGC MID DELAY	0020 ~ 4000 msec (20 msec/step)	4
004	MAIN BAND AGC MID HOLD	0000 ~ 2000 msec (20 msec/step)	4
005	MAIN BAND AGC SLOW DELAY	0020 ~ 4000 msec (20 msec/step)	4
006	MAIN BAND AGC SLOW HOLD	0000 ~ 2000 msec (20 msec/step)	4
007	SUB BAND AGC FAST DELAY	0020 ~ 4000 msec (20 msec/step)	4
008	SUB BAND AGC FAST HOLD	0000 ~ 2000 msec (20 msec/step)	4
009	SUB BAND AGC MID DELAY	0020 ~ 4000 msec (20 msec/step)	4
010	SUB BAND AGC MID HOLD	0000 ~ 2000 msec (20 msec/step)	4
011	SUB BAND AGC SLOW DELAY	0020 ~ 4000 msec (20 msec/step)	4
012	SUB BAND AGC SLOW HOLD	0000 ~ 2000 msec (20 msec/step)	4
013	TFT COLOR	0: COOL BLUE 1: CONTRAST BLUE 2: FLASH BLUE 3: CONTRAST UMBER 4: UMBER	1
014	DIMMER-METER	00 ~ 15	2
015	DIMMER-VDF	00 ~ 15	2
016	BAR DISPLAY SELECT	0: CLARIFIER OFFSET 1: CW TUNING 2: VRF/μTUNE PEAK POSITION 3: NOTCH	1
017	ROTATOR START UP	0: 0° 1: 90° 2: 180° 3: 270°	1
018	ROTATOR OFFSET ADJ	00 ~ 30 (0° ~ 30°, 2° step)	2
019	RIGHT TX METER	0: ALC 1: VDD	1
020	QMB MARKER	0: DISABLE(OFF) 1: ENABLE(ON)	1
021	MY SCREEN	0: DISABLE(OFF) 1: ENABLE(ON) (下図参照)	7
022	LEVEL INDICATOR	0: DISABLE(OFF) 1: ENABLE(ON) (下図参照)	10
023	APF INDICATOR	00: STEADY ON 01: BLINKING 1sec 02: BLINKING 2sec 03: BLINKING 3sec 04: BLINKING 4sec 05: BLINKING 5sec 06: BLINKING 7sec 07: BLINKING 10sec 08: BLINKING 20sec 09: BLINKING 30sec 10: BLINKING 60sec	2
024	BEACON TIME	000 (OFF) ~ 255 sec	3
025	NUMBER STYLE	0: 1290 1: AunO 2: Aunt 3: A2nO 4: A2nt 5: 12nO 6: 12nt	1
026	CONTEST NUMBER	0000 ~ 9999	4
027	CW MEMORY "1" MEMORY TYPE	0: TEXT MEMORY 1: MESSAGE MEMORY	1
028	CW MEMORY "2" MEMORY TYPE	0: TEXT MEMORY 1: MESSAGE MEMORY	1
029	CW MEMORY "3" MEMORY TYPE	0: TEXT MEMORY 1: MESSAGE MEMORY	1
030	CW MEMORY "4" MEMORY TYPE	0: TEXT MEMORY 1: MESSAGE MEMORY	1
031	CW MEMORY "5" MEMORY TYPE	0: TEXT MEMORY 1: MESSAGE MEMORY	1
032	ANTENNA SELECTION MODE	0: BAND 1: STACK	1
033	BEEP LEVEL	000 ~ 255	3
034	CAT BAUD RATE	0: 4800 bps 1: 9600 bps 2: 19200 bps 3: 38400 bps	1
035	CAT TIME-OUT TIMER	0: 10 msec 1: 100 msec 2: 1000 msec 3: 3000 msec	1
036	CAT RTS PORT	0: DISABLE(OFF) 1: ENABLE(ON)	1
037	CAT DATA INDICATOR	0: DISABLE(OFF) 1: ENABLE(ON)	1



CATコントロールコマンドテーブル

表 3

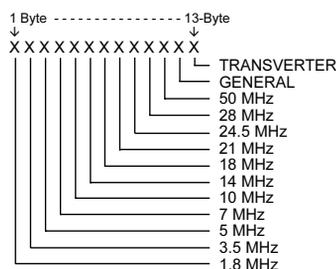
P1	FUNCTION	P2	P2 BYTE
038	MEMORY GROUP	0: DISABLE(OFF) 1: ENABLE(ON)	1
039	QUICK SPLIT TUNING OFFSET	-20 ~ +00 (or -00) ~ +20 kHz	3
040	VFO TRACK	0: OFF 1: BAND 2: FREQUENCY	1
041	TX TIME OUT TIMER	0: OFF 1: 5 min 2: 10 min 3: 15 min 4: 20 min 5: 25 min 6: 30 min	1
042	TRANSVERTER FREQUENCY DISPLAY	30 ~ 49 MHz	2
043	μ-TUNE DIAL STEP	0: STEP-2 1: STEP-1 2: OFF	1
044	MIC SCAN	0: DISABLE(OFF) 1: ENABLE(ON)	1
045	SCAN RESUME	0: PAUSE 1: TIME	1
046	AF/RF DIAL SWAP	0: NORMAL 1: SWAP	1
047	AM MIC GAIN	1000: MIC KNOB 0000 ~ 0255 (FIX)	4
048	AM MIC SELECT	0: FRONT JACK 1: DATA JACK 2: PC JACK 3: REAR	1
049	FRONT PANEL KEY JACK TYPE	0: OFF 1: BUG 2: IAMBIC KEYSER W/O ACS 3: IAMBIC KEYSER W/ACS	1
050	FRONT PANEL KEY JACK WIRING	0: NORMAL 1: REVERSE	1
051	REAR PANEL KEY JACK TYPE	0: OFF 1: BUG 2: IAMBIC KEYSER W/O ACS 3: IAMBIC KEYSER W/ACS	1
052	REAR PANEL KEY JACK WIRING	0: NORMAL 1: REVERSE	1
053	CW AUTO MODE	0: OFF 1: 50 MHz ONLY 2: ON	1
054	CW BFO INJECTION SIDE	0: USB 1: LSB 2: AUTO	1
055	CW BREAK-IN MODE	0: SEMI BREAK-IN 1: FULL BREAK-IN	1
056	CW CARRIER WAVE FORM SHAPE	0: 1 msec 1: 2 msec 2: 4 msec 3: 6 msec	1
057	CW WEIGHT	25 (1:2.5) ~ 45 (1:4.5)	2
058	CW FREQUENCY DISPLAY	0: DIRECT FREQUENCY 1: PITCH OFFSET	1
059	CW PC KEYING	0: DISABLE(OFF) 1: ENABLE(ON)	1
060	CW QSK TIME	0: 15 msec 1: 20 msec 2: 25 msec 3: 30 msec	1
061	DATA INPUT PORT	0: DATA JACK 1: PC JACK	1
062	DATA INPUT LEVEL	000 ~ 255	3
063	DATA OUTPUT BAND	0: MAIN (VFO-A) BAND 1: SUB (VFO-B) BAND	1
064	DATA VOX DELAY TIME	0030 ~ 3000 msec	4
065	DATA VOX GAIN	000 ~ 255	3
066	FM MIC GAIN	1000: MIC KNOB 0000 ~ 0255 (FIX)	4
067	FM MIC SELECT	0: FRONT JACK 1: DATA JACK 2: PC JACK 3: REAR	1
068	28 MHz REPEATER SHIFT	0000 ~ 1000 kHz (10 Hz/step)	4
069	50 MHz REPEATER SHIFT	0000 ~ 4000 kHz (10 Hz/step)	4
070	SSB PACKET MODE DISPLAY FREQUENCY	-3000 ~ +0000 (or -0000) ~ +3000 kHz (10 Hz/step)	5
071	SSB PACKET GAIN	000 ~ 255	3
072	SSB PACKET MODE SHIFT FREQUENCY	-3000 ~ +0000 (or -0000) ~ +3000 kHz (10 Hz/step)	5
073	RTTY MODE RX POLARITY (MARK/SPACE)	0: NORMAL 1: REVERSE	1
074	RTTY MODE TX POLARITY (MARK/SPACE)	0.: NORMAL 1: REVERSE	1
075	RTTY MODE SHIFT FREQUENCY	1: 170 Hz 1: 200 Hz 2: 425 Hz 3: 850 Hz	1
076	RTTY MODE MARK FREQUENCY	1: 1275 Hz 2: 2125 Hz	1
077	SSB MIC SELECT	0: FRONT JACK 1: DATA JACK 2: PC JACK 3: REAR	1
078	SSB MODE TX BPF BANDWIDTH	0: 50 - 3000 Hz 1: 100 - 2900 Hz 2: 200 - 2800 Hz 3: 300 - 2700 Hz 4: 400 - 2600 Hz 5: 3000WB	1
079	LSB RX CARRIER POINT	-200 ~ +000 (or -000) ~ +200 Hz (10 Hz/step)	4
080	LSB TX CARRIER POINT	-200 ~ +000 (or -000) ~ +200 Hz (10 Hz/step)	4
081	USB RX CARRIER POINT	-200 ~ +000 (or -000) ~ +200 Hz (10 Hz/step)	4
082	USB TX CARRIER POINT	-200 ~ +000 (or -000) ~ +200 Hz (10 Hz/step)	4
083	AGC GAIN CURVE	0: NORMAL 1: SLOPED	1
084	HEADPHONE MIX	0: SEPARATE 1: COMBINE-1 2: COMBINE-2	1
085	SPEAKER MIX	0: SEPARATE 1: COMBINE	1
086	MAIN BAND CONTOUR LEVEL	-40 ~ +00 (or -00) ~ +20 dB	3
087	MAIN BAND CONTOUR WIDTH	01 ~ 11	2
088	MAIN CW APF/CONT	0: APF 1: CONT 2: APF&CONT	1
089	SUB BAND CONTOUR LEVEL	-40 ~ +00 (or -00) ~ +20 dB	3
090	SUB BAND CONTOUR WIDTH	01 ~ 11	2
091	SUB CW APF/CONT	0: APF 1: CONT 2: APF&CONT	1
092	IF NOTCH WIDTH	0: NARROW 1: WIDE	1
093	MAIN BAND CW FILTER PASSBAND CHARACTER	0: SOFT 1: SHARP	1
094	MAIN BAND CW FILTER SHAPE FACTOR	0: STEEP 1: MEDIUM 2: GENTLE	1
095	MAIN BAND CW FILTER BANDWIDTH	00: 25 Hz 01: 50 Hz 02: 100 Hz 03: 200 Hz 04: 300 Hz 05: 400 Hz	2
096	MAIN BAND PACKT FILTER PASSBAND CHARACTER	0: SOFT 1: SHARP	1
097	MAIN BAND PACKT FILTER SHAPE FACTOR	0: STEEP 1: MEDIUM 2: GENTLE	1
098	MAIN BAND PACKT FILTER BANDWIDTH	00: 25 Hz 01: 50 Hz 02: 100 Hz 03: 200 Hz 04: 300 Hz 05: 400 Hz	2
099	MAIN BAND RTTY FILTER PASSBAND CHARACTER	0: SOFT 1: SHARP	1
100	MAIN BAND RTTY FILTER SHAPE FACTOR	0: STEEP 1: MEDIUM 2: GENTLE	1
101	MAIN BAND RTTY FILTER BANDWIDTH	0: 25 Hz 1: 50 Hz 2: 100 Hz 3: 200 Hz 4: 300 Hz 5: 400 Hz	2
102	MAIN BAND SSB FILTER PASSBAND CHARACTER	0: SOFT 1: SHARP	1
103	MAIN BAND SSB FILTER SHAPE FACTOR	0: STEEP 1: MEDIUM 2: GENTLE	1
104	MAIN BAND SSB NARROW FILTER BANDWIDTH	00: 200 Hz 01: 400 Hz 02: 600 Hz 03: 850 Hz 04: 1100 Hz 05: 1350 Hz 06: 1500 Hz 07: 1650 Hz 08: 1800 Hz 09: 1950 Hz 10: 2100 Hz 11: 2250 Hz	2
105	SUB BAND CW FILTER PASSBAND CHARACTER	0: SOFT 1: SHARP	1
106	SUB BAND CW FILTER SHAPE FACTOR	0: STEEP 1: MEDIUM 2: GENTLE	1
107	SUB BAND CW FILTER BANDWIDTH	00: 25 Hz 01: 50 Hz 02: 100 Hz 03: 200 Hz 04: 300 Hz 05: 400 Hz	2
108	SUB BAND PACKT FILTER PASSBAND CHARACTER	0: SOFT 1: SHARP	1
109	SUB BAND PACKT FILTER SHAPE FACTOR	0: STEEP 1: MEDIUM 2: GENTLE	1
110	SUB BAND PACKT FILTER BANDWIDTH	00: 25 Hz 01: 50 Hz 02: 100 Hz 03: 200 Hz 04: 300 Hz 05: 400 Hz	2
111	SUB BAND RTTY FILTER PASSBAND CHARACTER	0: SOFT 1: SHARP	1
112	SUB BAND RTTY FILTER SHAPE FACTOR	0: STEEP 1: MEDIUM 2: GENTLE	1
113	SUB BAND RTTY FILTER BANDWIDTH	00: 25 Hz 01: 50 Hz 02: 100 Hz 03: 200 Hz 04: 300 Hz 05: 400 Hz	2
114	SUB BAND SSB FILTER PASSBAND CHARACTER	0: SOFT 1: SHARP	1
115	SUB BAND SSB FILTER SHAPE FACTOR	0: STEEP 1: MEDIUM 2: GENTLE	1
116	SUB BAND SSB NARROW FILTER BANDWIDTH	00: 200 Hz 01: 400 Hz 02: 600 Hz 03: 850 Hz 04: 1100 Hz 05: 1350 Hz 06: 1500 Hz 07: 1650 Hz 08: 1800 Hz 09: 1950 Hz 10: 2100 Hz 11: 2250 Hz	2
117	MAIN BAND SPECTRUM SCOPE SCAN START FREQ. (1.8 MHz)	01800 ~ 01999 (1.800 MHz ~ 1.999 MHz)	5
118	MAIN BAND SPECTRUM SCOPE SCAN START FREQ. (3.5 MHz)	03500 ~ 03999 (3.500 MHz ~ 3.999 MHz)	5
119	MAIN BAND SPECTRUM SCOPE SCAN START FREQ. (5.0 MHz)	05250 ~ 05499 (5.250 MHz ~ 5.499 MHz)	5
120	MAIN BAND SPECTRUM SCOPE SCAN START FREQ. (7.0 MHz)	07000 ~ 07299 (7.000 MHz ~ 7.299 MHz)	5
121	MAIN BAND SPECTRUM SCOPE SCAN START FREQ. (10 MHz)	10100 ~ 10149 (10.100 MHz ~ 10.149 MHz)	5
122	MAIN BAND SPECTRUM SCOPE SCAN START FREQ. (14 MHz)	14000 ~ 14349 (14.000 MHz ~ 14.349 MHz)	5
123	MAIN BAND SPECTRUM SCOPE SCAN START FREQ. (18 MHz)	18000 ~ 18199 (18.000 MHz ~ 18.199 MHz)	5

CATコントロールコマンドテーブル

表 4

P1	FUNCTION	P2	P2 BYTE
124	MAIN BAND SPECTRUM SCOPE SCAN START FREQ. (21 MHz)	21000 ~ 21449 (21.000 MHz ~ 21.449 MHz)	5
125	MAIN BAND SPECTRUM SCOPE SCAN START FREQ. (24.5 MHz)	24800 ~ 24989 (24.800 MHz ~ 24.989 MHz)	5
126	MAIN BAND SPECTRUM SCOPE SCAN START FREQ. (28 MHz)	28000 ~ 29699 (28.000 MHz ~ 29.699 MHz)	5
127	MAIN BAND SPECTRUM SCOPE SCAN START FREQ. (50 MHz)	50000 ~ 53999 (50.000 MHz ~ 53.999 MHz)	5
128	SUB BAND SPECTRUM SCOPE SCAN START FREQ. (1.8 MHz)	01800 ~ 01999 (1.800 MHz ~ 1.999 MHz)	5
129	SUB BAND SPECTRUM SCOPE SCAN START FREQ. (3.5 MHz)	03500 ~ 03999 (3.500 MHz ~ 3.999 MHz)	5
130	SUB BAND SPECTRUM SCOPE SCAN START FREQ. (5.0 MHz)	05250 ~ 05499 (5.250 MHz ~ 5.499 MHz)	5
131	SUB BAND SPECTRUM SCOPE SCAN START FREQ. (7.0 MHz)	07000 ~ 07299 (7.000 MHz ~ 7.299 MHz)	5
132	SUB BAND SPECTRUM SCOPE SCAN START FREQ. (10 MHz)	10100 ~ 10149 (10.100 MHz ~ 10.149 MHz)	5
133	SUB BAND SPECTRUM SCOPE SCAN START FREQ. (14 MHz)	14000 ~ 14349 (14.000 MHz ~ 14.349 MHz)	5
134	SUB BAND SPECTRUM SCOPE SCAN START FREQ. (18 MHz)	18000 ~ 18199 (18.000 MHz ~ 18.199 MHz)	5
135	SUB BAND SPECTRUM SCOPE SCAN START FREQ. (21 MHz)	21000 ~ 21449 (21.000 MHz ~ 21.449 MHz)	5
136	SUB BAND SPECTRUM SCOPE SCAN START FREQ. (24.5 MHz)	24800 ~ 24989 (24.800 MHz ~ 24.989 MHz)	5
137	SUB BAND SPECTRUM SCOPE SCAN START FREQ. (28 MHz)	28000 ~ 29699 (28.000 MHz ~ 29.699 MHz)	5
138	SUB BAND SPECTRUM SCOPE SCAN START FREQ. (50 MHz)	50000 ~ 53999 (50.000 MHz ~ 53.999 MHz)	5
139	DIAL STEP	0: 1 Hz 1: 5 Hz 2: 10 Hz	1
140	CW FINE TUNING	0: DISABLE(OFF) 1: ENABLE(ON)	1
141	SUB VFO-B KNOB MHz STEP	0: 1 MHz 1: 100 kHz	1
142	AM CH STEP	0: 2.5 kHz 1: 5 kHz 2: 9 kHz 3: 10 kHz 4: 12.5 kHz	1
143	FM CH STEP	0: 5 kHz 1: 6.25 kHz 2: 10 kHz 3: 12.5 kHz 4: 25 kHz	1
144	FM DIALSTEP	0: 10 Hz 1: 100 Hz	1
145	MY BAND SELECT	0: OFF 1: ON (下図参照)	13
146	FRONT MIC EQUAQLIZER CENTER FREQUENCY (LOW RANGE)	00: OFF 01: 100 Hz 02: 200 Hz 03: 300 Hz 04: 400 Hz 05: 500 Hz 06: 600 Hz 07: 700 Hz	2
147	FRONT MIC EQUAQLIZER GAIN (LOW RANGE)	-10 ~ +00 (or -00) ~ +10	3
148	FRONT MIC EQUAQLIZER BANDWIDTH (LOW RANGE)	01 ~ 10	2
149	FRONT MIC EQUAQLIZER CENTER FREQUENCY (MID RANGE)	00: OFF 01: 700 Hz 02: 800 Hz 03: 900 Hz 04: 1000 Hz 05: 1100 Hz 06: 1200 Hz 07: 1300 Hz 08: 1400 Hz 09: 1500 Hz	2
150	FRONT MIC EQUAQLIZER GAIN (MID RANGE)	-10 ~ +00 (or -00) ~ +10	3
151	FRONT MIC EQUAQLIZER BANDWIDTH (MID RANGE)	01 ~ 10	2
152	FRONT MIC EQUAQLIZER CENTER FREQUENCY (HIGH RANGE)	00: OFF 01: 1500 Hz 02: 1600 Hz 03: 1700 Hz 04: 18000 Hz 05: 1900 Hz 06: 2000 Hz 07: 2100 Hz 08: 2200 Hz 09: 2300 Hz 10: 2400 Hz 11: 2500 Hz 12: 2600 Hz 13: 2700 Hz 14: 2800 Hz 15: 2900 Hz 16: 3000 Hz 17: 3100 Hz 18: 3200 Hz	2
153	FRONT MIC EQUAQLIZER GAIN (HIGH RANGE)	-10 ~ +00 (or -00) ~ +10	3
154	FRONT MIC EQUAQLIZER BANDWIDTH (HIGH RANGE)	01 ~ 10	2
155	REAR MIC EQUAQLIZER CENTER FREQUENCY (LOW RANGE)	00: OFF 01: 100 Hz 02: 200 Hz 03: 300 Hz 04: 400 Hz 05: 500 Hz 06: 600 Hz 07: 700 Hz	2
156	REAR MIC EQUAQLIZER GAIN (LOW RANGE)	-10 ~ +00 (or -00) ~ +10	3
157	REAR MIC EQUAQLIZER BANDWIDTH (LOW RANGE)	01 ~ 10	2
158	REAR MIC EQUAQLIZER CENTER FREQUENCY (MID RANGE)	00: OFF 01: 700 Hz 02: 800 Hz 03: 900 Hz 04: 1000 Hz 05: 1100 Hz 06: 1200 Hz 07: 1300 Hz 08: 1400 Hz 09: 1500 Hz	2
159	REAR MIC EQUAQLIZER GAIN (MID RANGE)	-10 ~ +00 (or -00) ~ +10	3
160	REAR MIC EQUAQLIZER BANDWIDTH (MID RANGE)	01 ~ 10	2
161	REAR MIC EQUAQLIZER CENTER FREQUENCY (HIGH RANGE)	00: OFF 01: 1500 Hz 02: 1600 Hz 03: 1700 Hz 04: 18000 Hz 05: 1900 Hz 06: 2000 Hz 07: 2100 Hz 08: 2200 Hz 09: 2300 Hz 10: 2400 Hz 11: 2500 Hz 12: 2600 Hz 13: 2700 Hz 14: 2800 Hz 15: 2900 Hz 16: 3000 Hz 17: 3100 Hz 18: 3200 Hz	2
162	REAR MIC EQUAQLIZER GAIN (HIGH RANGE)	-10 ~ +00 (or -00) ~ +10	3
163	REAR MIC EQUAQLIZER BANDWIDTH (HIGH RANGE)	01 ~ 10	2
164	SPEECH PROCESSOR EQUAQLIZER CENTER FREQUENCY (LOW RANGE)	00: OFF 01: 100 Hz 02: 200 Hz 03: 300 Hz 04: 400 Hz 05: 500 Hz 06: 600 Hz 07: 700 Hz	2
165	SPEECH PROCESSOR EQUAQLIZER GAIN (LOW RANGE)	-10 ~ +00 (or -00) ~ +10	3
166	SPEECH PROCESSOR EQUAQLIZER BANDWIDTH (LOW RANGE)	01 ~ 10	2
167	SPEECH PROCESSOR EQUAQLIZER CENTER FREQUENCY (MID RANGE)	00: OFF 01: 700 Hz 02: 800 Hz 03: 900 Hz 04: 1000 Hz 05: 1100 Hz 06: 1200 Hz 07: 1300 Hz 08: 1400 Hz 09: 1500 Hz	2
168	SPEECH PROCESSOR EQUAQLIZER GAIN (MID RANGE)	-10 ~ +00 (or -00) ~ +10	3
169	SPEECH PROCESSOR EQUAQLIZER BANDWIDTH (MID RANGE)	01 ~ 10	2
170	SPEECH PROCESSOR EQUAQLIZER CENTER FREQUENCY (HIGH RANGE)	00: OFF 01: 1500 Hz 02: 1600 Hz 03: 1700 Hz 04: 18000 Hz 05: 1900 Hz 06: 2000 Hz 07: 2100 Hz 08: 2200 Hz 09: 2300 Hz 10: 2400 Hz 11: 2500 Hz 12: 2600 Hz 13: 2700 Hz 14: 2800 Hz 15: 2900 Hz 16: 3000 Hz 17: 3100 Hz 18: 3200 Hz	2
171	SPEECH PROCESSOR EQUAQLIZER GAIN (HIGH RANGE)	-10 ~ +00 (or -00) ~ +10	3
172	SPEECH PROCESSOR EQUAQLIZER BANDWIDTH (HIGH RANGE)	01 ~ 10	2
173	MAXIMUM OUTPUT POWER LIMIT	FT DX 9000D/Contest 0: 10 W 1: 50 W 2: 100 W 3: 200 W FT DX 9000MP 0: 50 W 1: 100 W 2: 200 W 3: 400 W	1
174	RF PWR KNOB FUNCTION	0: ALL MODE 1: CARRIER	1
175	TX-GND JACK	0: DISABLE(OFF) 1: ENABLE(ON)	1
176	TUNER DRIVEING POWER	FT DX 9000D/Contest 0: 10 W 1: 50 W 2: 100 W 3: 200 W FT DX 9000MP 0: 50 W 1: 100 W 2: 200 W 3: 400 W	1
177	FULL DUPLEX OPERATION	0: SIMPLEX 1: DUPLEX	1
178	VOX OPERATION	0: MIC INPUT 1: DATA INPUT	1
179	EMERGENCY CHANNEL	0: DISABLE(OFF) 1: ENABLE(ON)	1

Menu Item 145 MY BAND SELECT
Command P2 13-Byte Details



CAT コントロールコマンドテーブル

FA	FREQUENCY VFO-A										
Set	1	2	3	4	5	6	7	8	9	10	P1 00030000 - 60000000 (Hz)
	F	A	P1								
	11	12	13	14	15	16	17	18	19	20	
Read	1	2	3	4	5	6	7	8	9	10	
	F	A	;								
	11	12	13	14	15	16	17	18	19	20	
Answer	1	2	3	4	5	6	7	8	9	10	
	F	A	P1								
	11	12	13	14	15	16	17	18	19	20	

FB	FREQUENCY VFO-B										
Set	1	2	3	4	5	6	7	8	9	10	P1 00300000 - 60000000 (Hz)
	F	B	P1								
	11	12	13	14	15	16	17	18	19	20	
Read	1	2	3	4	5	6	7	8	9	10	
	F	B	;								
	11	12	13	14	15	16	17	18	19	20	
Answer	1	2	3	4	5	6	7	8	9	10	
	F	B	P1								
	11	12	13	14	15	16	17	18	19	20	

FK	FUNCTION KEY										
Set	1	2	3	4	5	6	7	8	9	10	P1 1: F1 2: F2 3: F3 4: F4 5: F5 6: F6 7: F7
	F	K	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

FR	FUNCTION RX										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver: RX, Sub (VFO-B) Band Receiver: "OFF" 1: Main (VFO-A) Band Receiver: Mute, Sub (VFO-B) Band Receiver: "OFF" 2: Main (VFO-A) Band Receiver: RX, Sub (VFO-B) Band Receiver: RX 3: Main (VFO-A) Band Receiver: Mute, Sub (VFO-B) Band Receiver: RX
	F	R	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	F	R	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	F	R	P1	;							

FS	FAST STEP										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: FAST Key "OFF" 1: FAST Key "ON"
	F	S	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	F	S	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	F	S	P1	;							

FT	FUNCTION TX										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: TX Band = Main (VFO-A) Band ⇔ Sub (VFO-B) Band (Toggle) 1: TX Band = Sub (VFO-B) Band ⇔ Main (VFO-A) Band (Toggle) 2: TX Band = Main (VFO-A) Band 3: TX Band = Sub (VFO-B) Band P2 0: TX Band = Main (VFO-A) Band 1: TX Band = Sub (VFO-B) Band
	F	T	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	F	T	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	F	T	P2	;							

GT	AGC FUNCTION										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band 1: Sub (VFO-B) Band P2 0: AGC "OFF" 1: AGC "FAST" 2: AGC "MID" 3: AGC "SLOW" 4: AGC "AUTO-FAST" 5: AGC "AUTO-MID" 6: AGC "AUTO-SLOW" P3 0: AGC "OFF" 1: AGC "FAST" 2: AGC "MID" 3: AGC "SLOW" 4: AGC "AUTO-FAST" 5: AGC "AUTO-MID" 6: AGC "AUTO-SLOW"
	G	T	P1	P2	;						
Read	1	2	3	4	5	6	7	8	9	10	
	G	T	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	G	T	P1	P3	;						

ID	IDENTIFICATION										
Set	1	2	3	4	5	6	7	8	9	10	P1 0101: FTDX9000D 0102: FTDX9000Contest 0103: FTDX9000MP
Read	1	2	3	4	5	6	7	8	9	10	
	I	D	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	I	D	P1	P1	P1	P1	;				

CATコントロールコマンドテーブル

IF	INFORMATION										
Set	1	2	3	4	5	6	7	8	9	10	P1 000-117 (Memory Channel) P2 VFO-A Frequency (Hz)
Read	1	2	3	4	5	6	7	8	9	10	P3 Clarifier Direction +: Plus Shift, -: Minus Shift
	I	F	;								P4 0: RX CLAR "OFF" 1: RX CLAR "ON"
Answer	1	2	3	4	5	6	7	8	9	10	P5 0: TX CLAR "OFF" 1: TX CLAR "ON"
	I	F	P1	P1	P1	P2	P2	P2	P2	P2	P6 MODE 1: LSB 2: USB 3: CW 4: FM 5: AM 6: FSK (RTTY-LSB)
	11	12	13	14	15	16	17	18	19	20	7: CW-R 8: PKT-L 9: FSK-R (RTTY-USB) A: PKT-FM
	P2	P2	P2	P3	P3	P3	P3	P4	P5		B: FM-N C: PKT-U
	21	22	23	24	25	26	27	28	29	30	P7 0: VFO 1: Memory 2: Memory Tune 3: Quick Memory Bank (QMB) 4: QMB-MT
P6	P7	P8	P9	P9	P10	;					P8 0: CTCSS "OFF" 1: CTCSS ENC/DEC 2: CTCSS ENC
											P9: Tone Number (p. 5, 表1参照)
											P10 0: Simplex 1: Plus Shift 2: Minus Shift

IS	IF-SHIFT										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver
Read	1	2	3	4	5	6	7	8	9	10	1: Sub (VFO-B) Band Receiver
	I	S	P1	-/+	P2	P2	P2	P2	;		P2 -1000 ~ +1000 Hz
Answer	1	2	3	4	5	6	7	8	9	10	
	I	S	P1	-/+	P2	P2	P2	P2	;		

KC	KEY COMMAND										
Set	1	2	3	4	5	6	7	8	9	10	P1 00: B-DISP "OFF" P3 0: OFF
Read	1	2	3	4	5	6	7	8	9	10	01: VDD (Contest/MP only) 1: ON
	K	C	P1	P1	;						01: BIAS (Contest/MP only)
Answer	1	2	3	4	5	6	7	8	9	10	01: TEMP (Contest/MP only)
	K	C	P1	P1	P3	;					01: SWR (Contest/MP only)
											P2 0 (Fixed)

KM	KEYER MEMORY										
Set	1	2	3	4	5	6	7	~	53	**	P1 1 - 5 : Keyer Memory Channel Number
Read	1	2	3	4	5	6	7	8	9	10	P2 Message Characters (up to 50 characters)
	K	M	P1	;							
Answer	1	2	3	4	5	6	7	~	53	**	
	K	M	P1	P2	P2	P2	P2	~	P2	;	

KP	KEY PITCH										
Set	1	2	3	4	5	6	7	8	9	10	P1 00: 300 Hz 07: 650 Hz 14: 1000 Hz
Read	1	2	3	4	5	6	7	8	9	10	01: 350 Hz 08: 700 Hz 15: 1050 Hz
	K	P	P1	P1	;						02: 400 Hz 09: 750 Hz
Answer	1	2	3	4	5	6	7	8	9	10	03: 450 Hz 10: 800 Hz
	K	P	P1	P1	;						04: 500 Hz 11: 850 Hz
											05: 550 Hz 12: 900 Hz
											06: 600 Hz 13: 950 Hz

KR	KEYER										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: KEYER "OFF"
Read	1	2	3	4	5	6	7	8	9	10	1: KEYER "ON"
	K	R	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	K	R	P1	;							

KS	KEY SPEED										
Set	1	2	3	4	5	6	7	8	9	10	P1 004 - 060 (WPM)
Read	1	2	3	4	5	6	7	8	9	10	
	K	S	P1	P1	P1	;					
Answer	1	2	3	4	5	6	7	8	9	10	
	K	S	P1	P1	P1	;					

KY	CW KEYING										
Set	1	2	3	4	5	6	7	8	9	10	P1 1: Keyer Memory "1" Playback
Read	1	2	3	4	5	6	7	8	9	10	2: Keyer Memory "2" Playback
	K	Y	P1	;							3: Keyer Memory "3" Playback
Answer	1	2	3	4	5	6	7	8	9	10	4: Keyer Memory "4" Playback
											5: Keyer Memory "5" Playback
											6: Message Keyer "1" Playback
											7: Message Keyer "2" Playback
											8: Message Keyer "3" Playback
											9: Message Keyer "4" Playback
											A: Message Keyer "5" Playback

CATコントロールコマンドテーブル

LK	LOCK										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: DIAL Lock "OFF" 1: DIAL Lock "ON"
	L	K	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	L	K	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	L	K	P1	;							

LM	LOAD MESSAGE												
Set	1	2	3	4	5	6	7	8	9	10	P1 0: DVS 1: P. B	P2 When P1=0 0: DVS (Recording Stop) 1: DVS (CH "1" Recording Start/Stop) 2: DVS (CH "2" Recording Start/Stop) 3: DVS (CH "3" Recording Start/Stop) 4: DVS (CH "4" Recording Start/Stop) 5: DVS (CH "5" Recording Start/Stop)	When P1=1 0: P.B (Recording Stop) 1: P.B (Recording Start)
	L	M	P1	P2	;								
Read	1	2	3	4	5	6	7	8	9	10			
	L	M	P1	;									
Answer	1	2	3	4	5	6	7	8	9	10			
	L	M	P1	P2	;								

MA	MEMORY CHANNEL TO VFO-A										
Set	1	2	3	4	5	6	7	8	9	10	
	M	A	;								
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

MC	MEMORY CHANNEL										
Set	1	2	3	4	5	6	7	8	9	10	P1 001 - 117: Memory Channel Number 001 - 099: Memory Channel 100: P1L 101: P1U ↓ 116: P9L 117: P9U
	M	C	P1	P1	P1	;					
Read	1	2	3	4	5	6	7	8	9	10	
	M	C	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	M	C	P1	P1	P1	;					

MD	OPERATING MODE											
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band 1: Sub (VFO-B) Band	P2 MODE 1: LSB 2: USB 3: CW 4: FM 5: AM 6: FSK (RTTY-LSB) 7: CW-R 8: PKT-L 9: FSK-R (RTTY-USB) A: PKT-FM B: FM-N C: PKT-U
	M	D	P1	P2	;							
Read	1	2	3	4	5	6	7	8	9	10		
	M	D	P1	;								
Answer	1	2	3	4	5	6	7	8	9	10		
	M	D	P1	P2	;							

MG	MIC GAIN										
Set	1	2	3	4	5	6	7	8	9	10	P1 000 - 255
	M	G	P1	P1	P1	;					
Read	1	2	3	4	5	6	7	8	9	10	
	M	G	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	M	G	P1	P1	P1	;					

MK	MODE KEY										
Set	1	2	3	4	5	6	7	8	9	10	P1 KEY 0: LSB 1: USB 2: CW 3: AM 4: FM 5: RTTY 6: PKT
	M	K	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	

ML	MONITOR LEVEL											
Set	1	2	3	4	5	6	7	8	9	10	P1 0: MONI "ON/OFF" 1: MONI Level	P2 P1=0 000: MONI "OFF" 001: MONI "ON" P1=1 001 - 255
	M	L	P1	P2	P2	P2	;					
Read	1	2	3	4	5	6	7	8	9	10		
	M	L	P1	;								
Answer	1	2	3	4	5	6	7	8	9	10		
	M	L	P1	P2	P2	P2	;					

CATコントロールコマンドテーブル

MR	MEMORY CHANNEL READ										
Set	1	2	3	4	5	6	7	8	9	10	P1 Memory Channel Number P2 Memory Channel Frequency (Hz)
Read	1	2	3	4	5	6	7	8	9	10	P3 Clarifier Direction +: Plus Shift, -: Minus Shift Clarifier Offset: 0000 - 9999 (Hz)
	M	R	P1	P1	P1	;					P4 0: RX CLAR "OFF" 1: RX CLAR "ON"
Answer	1	2	3	4	5	6	7	8	9	10	P5 0: TX CLAR "OFF" 1: TX CLAR "ON"
	M	R	P1	P1	P1	P2	P2	P2	P2	P2	P6 MODE 1: LSB 2: USB 3: CW 4: FM 5: AM 6: FSK (RTTY-LSB) 7: CW-R 8: PKT-L 9: FSK-R (RTTY-USB) A: PKT-FM B: FM-N C: PKT-U
	11	12	13	14	15	16	17	18	19	20	P7 0: VFO 1: Memory
	P2	P2	P2	P3	P3	P3	P3	P3	P4	P5	P8 0: CTCSS "OFF" 1: CTCSS ENC/DEC 2: CTCSS ENC
	21	22	23	24	25	26	27	28	29	30	P9: Tone Number (表1, p.5参照)
P6	P7	P8	P9	P9	P10	;					P10 0: Simplex 1: Plus Shift 2: Minus Shift

MS	METER SW										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: PO 1: MIC 2: IDD 3: SWR 4: COMP
Read	1	2	3	4	5	6	7	8	9	10	
	M	S	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	M	S	P1	;							

MW	MEMORY CHANNEL WRITE										
Set	1	2	3	4	5	6	7	8	9	10	P1 Memory Channel Number P2 Memory Channel Frequency (Hz)
Read	M	W	P1	P1	P1	P2	P2	P2	P2	P2	P3 Clarifier Direction +: Plus Shift, -: Minus Shift Clarifier Offset: 0000 - 9999 (Hz)
	11	12	13	14	15	16	17	18	19	20	P4 0: RX CLAR "OFF" 1: RX CLAR "ON"
	P2	P2	P2	P3	P3	P3	P3	P3	P4	P5	P5 0: TX CLAR "OFF" 1: TX CLAR "ON"
	21	22	23	24	25	26	27	28	29	30	P6 MODE 1: LSB 2: USB 3: CW 4: FM 5: AM 6: FSK (RTTY-LSB) 7: CW-R 8: PKT-L 9: FSK-R (RTTY-USB) A: PKT-FM B: FM-N C: PKT-U
	P6	P7	P8	P9	P9	P10	;				
Answer	1	2	3	4	5	6	7	8	9	10	P8 0: CTCSS "OFF" 1: CTCSS ENC/DEC 2: CTCSS ENC P9: Tone Number (表1, p.5参照) P10 0: Simplex 1: Plus Shift 2: Minus Shift

MX	MOX SET										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: MOX "OFF" 1: MOX "ON"
Read	1	2	3	4	5	6	7	8	9	10	
	N	X	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	N	X	P1	;							

NA	NARROW										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver 1: Sub (VFO-B) Band Receiver
Read	M	A	P1	P2	;						P2 0: OFF 1: ON
	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	
	N	A	P1	P2	;						

NB	NOISE BLANKER STATUS										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver 1: Sub (VFO-B) Band Receiver
Read	N	B	P1	P2	;						P2 0: Noise Blanker "OFF" 1: Noise Blanker "ON" 2: Noise Blanker (Wide) "ON"
	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	
	N	B	P1	P2	;						

NL	NOISE BLANKER LEVEL										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver 1: Sub (VFO-B) Band Receiver
Read	N	L	P1	P2	P2	;					P2 000 - 255
	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	
	N	L	P1	P2	P2	;					

NR	NOISE REDUCTION										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main Band (VFO-A) Receiver 1: Sub Band (VFO-B) Receiver
Read	N	R	P1	P2	;						P2 0: Noise Reduction "OFF" 1: Noise Reduction "ON"
	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	
	N	R	P1	P2	;						

CAT コントロールコマンドテーブル

OI	OPPOSITE BAND INFORMATION										
Set	1	2	3	4	5	6	7	8	9	10	P1 Current Memory Channel P2 VFO-B Frequency (Hz) P3 Clarifier Direction +: Plus Shift, -: Minus Shift Clarifier Offset: 0000 - 9999 (Hz) P4 0: RX CLAR "OFF" 1: RX CLAR "ON" P5 0: TX CLAR "OFF" 1: TX CLAR "ON" P6 MODE 1: LSB 2: USB 3: CW 4: FM 5: AM 6: FSK (RTTY-LSB) 7: CW-R 8: PKT-L 9: FSK-R (RTTY-USB) A: PKT-FM B: FM-N C: PKT-U P7 0: VFO 1: Memory P8 0: CTCSS "OFF" 1: CTCSS ENC/DEC 2: CTCSS ENC P9: Tone Number (p. 5, 表 1 参照) P10 0: Simplex 1: Plus Shift 2: Minus Shift
Read	1	2	3	4	5	6	7	8	9	10	
Answer	O	I	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	O	I	P1	P1	P1	P2	P2	P2	P2	P2	
	11	12	13	14	15	16	17	18	19	20	
	P2	P2	P2	P3	P3	P3	P3	P4	P5		
	21	22	23	24	25	26	27	28	29	30	
	P6	P7	P8	P9	P9	P10	;				

OS	OFFSET (REPEATER SHIFT)										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band 1: Sub (VFO-B) Band P2 0: Simplex 1: Plus Shift 2: Minus Shift ※: FM mode only
Read	1	2	3	4	5	6	7	8	9	10	
Answer	O	S	P1	P2	;						
Answer	1	2	3	4	5	6	7	8	9	10	
	O	S	P1	P2	;						

PA	PRE-AMP (IPO)										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver 1: Sub (VFO-B) Band Receiver P2 0: IPO "ON" 1: IPO "OFF"
Read	1	2	3	4	5	6	7	8	9	10	
Answer	P	A	P1	P2	;						
Answer	1	2	3	4	5	6	7	8	9	10	
	P	A	P1	P2	;						

PB	PLAY BACK										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: DVS P2 P1=0 P1=1 1: P.B 0: DVS (再生時は停止) 0: P.B (Playback Stop) 1: DVS (CH "1" Playback Start) 1: P.B (Playback Start) 2: DVS (CH "2" Playback Start) 3: DVS (CH "3" Playback Start) 4: DVS (CH "4" Playback Start) 5: DVS (CH "5" Playback Start)
Read	1	2	3	4	5	6	7	8	9	10	
Answer	P	B	P1	P2	;						
Answer	1	2	3	4	5	6	7	8	9	10	
	P	B	P1	P2	;						

PC	POWER CONTROL										
Set	1	2	3	4	5	6	7	8	9	10	P1 000 - 255
Read	1	2	3	4	5	6	7	8	9	10	
Answer	P	C	P1	P1	P1	;					
Answer	1	2	3	4	5	6	7	8	9	10	
	P	C	P1	P1	P1	;					

PL	SPEECH PROCESSOR LEVEL										
Set	1	2	3	4	5	6	7	8	9	10	P1 000 - 255
Read	1	2	3	4	5	6	7	8	9	10	
Answer	P	L	P1	P1	P1	;					
Answer	1	2	3	4	5	6	7	8	9	10	
	P	L	P1	P1	P1	;					

PR	SPEECH PROCESSOR										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Speech Processor "OFF" 1: Speech Processor "ON"
Read	1	2	3	4	5	6	7	8	9	10	
Answer	P	R	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	P	R	P1	;							

PS	POWER SWITCH										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: POWER "OFF" 1: POWER "ON"
Read	1	2	3	4	5	6	7	8	9	10	
Answer	P	S	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	P	S	P1	;							

CATコントロールコマンドテーブル

RL	NOISE REDUCTION LEVEL										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver 1: Sub (VFO-B) Band Receiver P2 01 - 15
	R	L	P1	P2	P2	;					
Read	1	2	3	4	5	6	7	8	9	10	
	R	L	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	R	L	P1	P2	P2	;					
RM	READ METER										
Set	1	2	3	4	5	6	7	8	9	10	P1 00: Current Main Meter 04: S Meter (Main) 11: VDD Meter 01: Current Sub Meter 05: S Meter (Sub) 12: MIC Meter 02: Current VDD/BIAS Meter 06: COMP Meter 13: BIAS Meter (Contest/MP versions) 07: ALC Meter 14: TEMP Meter 03: Current TEMP/SWR Meter 08: PO Meter (Contest/MP versions) 09: SWR Meter P2 000 - 255 10: ID Meter
	R	M	P1	P1	;						
Read	1	2	3	4	5	6	7	8	9	10	
	R	M	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	R	M	P1	P1	P2	P2	P2	;			
RO	ROTATOR										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: OFF 1: Counter Clockwise 2: Clockwise 3: SPEED 1 % DOWN 4: SPEED 1 % UP P2 DIRECTION (0 - 450 degree) P3 SPEED (0 - 100 %)
	R	O	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	R	O	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	R	O	P1	P2	P2	P2	P3	P3	P3	;	
RS	RADIO STATUS										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: NORMAL MODE 1: MENU MODE 2: MENU DATA READ (from CF Card)
	R	S	;								
Read	1	2	3	4	5	6	7	8	9	10	
	R	S	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	R	S	P1	;							
RT	CLAR										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: RX Clarifier "OFF" 1: RX Clarifier "ON"
	R	T	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	R	T	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	R	T	P1	;							
RU	RX CLARIFIER PLUS OFFSET										
Set	1	2	3	4	5	6	7	8	9	10	P1 0000 - 9999 (Hz)
	R	U	P1	P1	P1	;					
Read	1	2	3	4	5	6	7	8	9	10	
	R	U	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	R	U	P1	;							
SC	SCAN										
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Scan "OFF" 1: Scan "ON" (Upward) 2: Scan "ON" (Downward)
	S	C	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	S	C	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	S	C	P1	;							
SD	CW BREAK-IN DELAY TIME										
Set	1	2	3	4	5	6	7	8	9	10	P1 0000: Full Break-in 0001 - 5000 mS
	S	D	P1	P1	P1	P1	;				
Read	1	2	3	4	5	6	7	8	9	10	
	S	D	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	S	D	P1	P1	P1	P1	;				
SF	SUB VFO-B KNOB FUNCTION										
Set	1	2	3	4	5	6	7	8	9	10	P1 00: OFF (Read only) 05: BAND (Sub (VFO-B) Band) 01: BAND (Main (VFO-A) Band) 06: MHz (Sub (VFO-B) Band) 02: MHz (Main (VFO-A) Band) 07: FAST (Sub (VFO-B) Band) 03: GRP 08: A/B 04: MCH 09: CLAR 10: MODE (Sub (VFO-B) Band)
	S	F	P1	P1	;						
Read	1	2	3	4	5	6	7	8	9	10	
	S	F	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	S	F	P1	P1	;						

CATコントロールコマンドテーブル

SH		WIDTH									
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band Receiver 1: Sub (VFO-B) Band Receiver P2 00 (Counter Clockwise) - 31 (Clockwise), 16 (Center)
	S	H	P1	P2	P2	;					
Read	1	2	3	4	5	6	7	8	9	10	
	S	H	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	S	H	P1	P2	P2	;					
SM		S-METER READING									
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band S-meter 1: Sub (VFO-B) Band S-meter P2 000 - 255
Read	1	2	3	4	5	6	7	8	9	10	
	S	M	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	S	M	P1	P2	P2	P2	;				
SQ		SQUELCH LEVEL									
Set	1	2	3	4	5	6	7	8	9	10	P1 0: Main (VFO-A) Band 1: Sub (VFO-B) Band P2 000 - 255
	S	Q	P1	P2	P2	P2	;				
Read	1	2	3	4	5	6	7	8	9	10	
	S	Q	P1	;							
Answer	1	2	3	4	5	6	7	8	9	10	
	S	Q	P1	P2	P2	P2	;				
SV		SWAP VFO									
Set	1	2	3	4	5	6	7	8	9	10	
	S	V	;								
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	
TS		TXW									
Set	1	2	3	4	5	6	7	8	9	10	P1 0: TXW "OFF" 1: TXW "ON"
	T	S	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	T	S	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	T	S	P1	;							
TX		TX SET									
Set	1	2	3	4	5	6	7	8	9	10	P1 0: RADIO TX "OFF" CAT TX "OFF" 1: RADIO TX "OFF" CAT TX "ON" 2: RADIO TX "ON" CAT TX "OFF" (Answer)
	T	X	P1	;							
Read	1	2	3	4	5	6	7	8	9	10	
	T	X	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	T	X	P1	;							
UL		PLL UNLOCK STATUS									
Set	1	2	3	4	5	6	7	8	9	10	P1 0: PLL "Lock" 1: PLL "Unlock"
Read	1	2	3	4	5	6	7	8	9	10	
	U	L	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	U	L	P1	;							
UP		UP									
Set	1	2	3	4	5	6	7	8	9	10	
	U	P	;								
Read	1	2	3	4	5	6	7	8	9	10	
Answer	1	2	3	4	5	6	7	8	9	10	
VD		VOX DELAY TIME									
Set	1	2	3	4	5	6	7	8	9	10	P1 0000 - 5000 mS (20 mS 倍数)
	V	D	P1	P1	P1	P1	;				
Read	1	2	3	4	5	6	7	8	9	10	
	V	D	;								
Answer	1	2	3	4	5	6	7	8	9	10	
	V	D	P1	P1	P1	P1	;				

CAT コントロールコマンドテーブル

VF	VRF FILTER													
Set	1	2	3	4	5	6	7	8	9	10	P1	0: Main (VFO-A) Band Receiver 1: Sub (VFO-B) Band Receiver	P3	+: Plus Shift -: Minus Shift
	V	F	P1	P2	P3	P4	;							
Read	1	2	3	4	5	6	7	8	9	10	P2	0: OFF 1: ON 2: Default set	P4	0 - 9 (Step)
	V	F	P1;										P5	000 - 255
Answer	1	2	3	4	5	6	7	8	9	10			P6	0: VRF 1: μ TUNE
	V	F	P1	P2	P5	P5	P6	;						

VG	VOX GAIN											
Set	1	2	3	4	5	6	7	8	9	10	P1	000 - 255
	V	G	P1	P1	P1	;						
Read	1	2	3	4	5	6	7	8	9	10		
	V	G	;									
Answer	1	2	3	4	5	6	7	8	9	10		
	V	G	P1	P1	P1	;						

VM	[V/M] KEY FUNCTION											
Set	1	2	3	4	5	6	7	8	9	10		
	V	M	;									
Read	1	2	3	4	5	6	7	8	9	10		
Answer	1	2	3	4	5	6	7	8	9	10		

VS	VFO SELECT											
Set	1	2	3	4	5	6	7	8	9	10	P1	0: VFO-A 1: VFO-B
	V	S	P1	;								
Read	1	2	3	4	5	6	7	8	9	10		
	V	S	;									
Answer	1	2	3	4	5	6	7	8	9	10		
	V	S	P1	;								

VX	VOX STATUS											
Set	1	2	3	4	5	6	7	8	9	10	P1	0: VOX "OFF" 1: VOX "ON"
	V	X	P1	;								
Read	1	2	3	4	5	6	7	8	9	10		
	V	X	;									
Answer	1	2	3	4	5	6	7	8	9	10		
	V	X	P1	;								

XT	TX CLAR											
Set	1	2	3	4	5	6	7	8	9	10	P1	0: TX CLAR "OFF" 1: TX CLAR "ON"
	X	T	P1	;								
Read	1	2	3	4	5	6	7	8	9	10		
	X	T	;									
Answer	1	2	3	4	5	6	7	8	9	10		
	X	T	P1	;								



株式会社バーテックススタンダード
〒153-8644 東京都目黒区中目黒4-8-8

WDXCフリーダイヤル ☎ 0120-86-4901



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