

AR5700D COMMAND ADDITIONS from AR5001D

MD RECEIVE MODES

Command	Description	Mode	IF Bandwidth	Remarks
<i>MD00~35</i>		<i>(Same as AR5001D)</i>		
MD40	DALL	Digital auto decode mode	Auto	N/A below 25MHz
MD41	DCR	DCR/NXDN	Auto	N/A below 25MHz
MD42	dPMR	dPMR	Auto	N/A below 25MHz
MD43	DMR	DMR	Auto	N/A below 25MHz
MD45	P25	APCO P-25 phase 1	Auto	N/A below 25MHz
MD46	DSTAR	D-STAR	Auto	N/A below 25MHz
MD47	YAESU	YAESU C4FM	Auto	N/A below 25MHz
MD48	EJ-47	Alinco EJ-47U	Auto	N/A below 25MHz
MD53	T-DM	TETRA direct mode	Auto	N/A below 25MHz
MD54	T-TC	TETRA traffic channel	Auto	N/A below 25MHz

MD	MDnn<CR>	nn: 0~08,21~35	Default 22
To Read:	MD<CR>		
Response:	MDnn<SP><CR><LF>		

LM SIGNAL LEVEL

LM	To read: LM<CR> or LMX<CR>	
Response	LM<CR> → LMaxx<SP><CR><LF>	LMX<CR> → LMXnnn.naf<SP><CR><LF>
	a: Squelch status Sapce – Squelch open % --- Squelch closed V: Voice squelch open D: CTCSS / CTS squelch 1: APCO P-25 phase 1 2: D-STAR 3: EJ-47 5: DCR/NXDN 6: dPMR 7: YAESU ;: DMR [: T-TC]: T-DM xx: S-meter value in 00 ~ FF (Hex.)	nnn.n – S-meter value in dB a: Squelch status P – Squelch open Sapce --- Squelch closed V: Voice squelch open D: CTCSS / CTS squelch 1: APCO P-25 phase 1 2: D-STAR 3: EJ-47 5: DCR/NXDN 6: dPMR 7: YAESU ;: DMR [: T-TC]: T-DM f: bit 7~4: 0100 Fixed value bit 3: Remote flag 1: Serial data received from USB / AUX 1 0: Serial port initialized / EX command executed bit 2 ~ 0: Count up when search / FFT search / scan finished one circle

LR OUTPUT FREQUENCY INFORMATION WHEN SQUELCH CHANGES ON/OFF

LR	LRn<CR> n=0 n=1	n: 0,1 OFF ON	Default 0
To Read:	LR<CR>		
Response:	LRn<SP><CR><LF>		
Output Format:	RL LMnnn.naf mmm.ma ddd.da RFnnnn.nnnnnn CK yyyyymmddhhnss<SP><CR><LF> LMnnn.naf: Same as LMX response mmm.ma: S-meter value and squelch status of offset frequency of frequency offset mode * ddd.da: S-meter value and squelch status of sub frequency of dual band receive mode * (*: Outputs in the same format as the LMX response (excluding f) during the operation of frequency offset mode and dual band reception, and outputs 6 blank characters each when not operating) RFnnnn.nnnnnn: Receive frequency (unit: MHz with decimal point) CK yyyyymmddhhnss: Time stamp; year / month / day / hour / minute / second		

DR DCR ENCRYPTION CODE

DR	DRnnnnn<CR>	nn: 0~32767
To Read:	DR<CR>	
Response:	DRnnnnn<SP><CR><LF>	

DU DCR USER CODE AND ON/OFF

DU	DUa<SP>nnn<CR> a=0 a=1	a: 0,1 OFF ON	Default 0
To Read:	DU<CR>		
Response:	DUa<SP>nnn<SP><CR><LF>		
		nnn: 000~511	User Code

NC NXDN RAN CODE AND ON/OFF

NC	NCa<SP>nn<CR> a=0 a=1	a: 0,1 OFF ON	Default 0
To Read:	NC<CR>		
Response:	NCa<SP>nn<SP><CR><LF>		
		nn: 0~64	RAN Code

CC DMR COLOR CODE AND ON/OFF

CC	CCa<SP>nn<CR> a=0 a=1	a: 0,1 OFF ON	Default 0
To Read:	CC<CR>		
Response:	CCa<SP>nn<SP><CR><LF>		
		nn: 0~16	Color Code

OT DMR SLOT SELECTION

OT	OTn<CR>	n: 0~3 default 0	(different from AR-DV1 commands)
	n=0	slot 1	
	n=1	slot 2	
	n=2	slot 1+2 (1 has priority)	
	n=3	slot 2+1 (2 has priority)	
To Read:	OT<CR>		
Response:	OTn<SP><CR><LF>		

PC APCO P-25 NAC CODE AND ON/OFF

PC	PCa<SP>xxx<CR>a: 0,1	Default 0
	a=0	OFF
	a=1	ON
	xxx: 000~FFF (16 hexadecimal, 3 digits)	
To Read:	PC<CR>	
Response:	PCa<SP>xxx<SP><CR><LF>	

TS TETRA T-TC slot number

TS	TSn<CR>	n: 0~4	Default 0
	n=0	ALL	
	n=1	Slot 1	
	n=2	Slot 2	
	n=3	Slot 3	
	n=4	Slot 4	
To Read:	TS<CR>		
Response:	TSn<SP><CR><LF>		

DI DIGITAL CODE INFORMATION

DI	DI<CR>
To Read:	DI<CR>
Response:	<p>DIn=xxxxxxxxXX...<SP><CR><LF></p> <p>n: 0: It may be output when it cannot be determined. (Including non-target mode and analog)</p> <p>1: ALINCO、 2: NXDN/DCR、 4: D-STAR、 7: DMR、 A: P25、 B: TETRA</p> <p>xxxxxxxxx...: Digital decoder output information (depending on each mode)</p> <p><i>Note: The output content must be evaluated by your app in conjunction with the RL response. In some cases, it is necessary to determine the final value by a method such as comparing acquired values a plurality of times.</i></p> <p><i>The decoder output information may include some irregular value or need to be converted to its display format.</i></p> <p><i>Set the squelch level to an appropriate value so that the information of the last received signal is not retained for a long time even when there is no signal in digital auto mode.</i></p>