Radio Programming Software for the Icom IC-9700

	IC-9700 Sam	spie.IC9709 ×																
1	Receive Functional	Transmit Other	Other Direction	Operating Mode	Data	Filter Nat	e Tone Mode	CTCS	Re CTCSS	DCS	DCS Poleity	Scin	Digital Sourish	Digtsl Code	Your	Rpl-1 Callion	Fipt-2 Callion	Connert
1	145 INTER-	144 90000 6003842	DUP	The	111005	1	None		67.0 Hz		Butty th	2000	Cut	AL.	surry 1	-morget		-
	145 51250	145 51/40	Simpley	EM.		1	None	57:0242	67 0 Hz		Burn fr		Off	10				
	145 52500	145 52500	Simples	D4			None	62-010		-		11.25			1		-	-
	145 53750	145 53750	Seret	Me	mory	/ Types	Nore	67.0		VH	IF Me	mori	es					
	145 55000	145.55000	Simplex		(left to)	richti	None	67.0			deft to	righti				-	-	
	145 56250	145.56250	Sinplex		incirco i	right.	None	65.01			line of a				-	-		
	145.57500	145.57500	Simples	VHF	Memo	ries	None	67.0	Receive	Frequ	lency	DC	S		-			
	145 50000	146 00000 0001344	DUR	1.11.15				1000		110d	Jeney				-			
	145 61250	145.00000 600 001	OUR	UHF	Memo	nes	- Kinna	-	Transmi	t Freq	uency	Rx	DCS					
	145 62500	145 02520 600 kHz	DUP	1200	Mem	nnies	None	12000	Offeret D			00	C Deles	alle a				
	145.63750	145 03/50 600 kHz	DUP	1200	means	511655	None	17.0	Uliset Fi	eque	ncy	DC	S Polar	ity				
	145 65000	145.05000 600 kHz	DUP	Scan	Limits		None	67.0	Offset D	irectio	0	Sc	an Sele	et .				
	145.66250	145.06250 600 kHz	-DUP			Summer and	None.	62.0										
	145.67500	145.07500 600 kHz	-DUP	Mem	oPad I	vemones	None	67.0	Operatir	ng Mo	de	Dig	gital Sq	uelch				
				DRM	lemoti	es			Data Ma	da		Die	that Co	da				
7	145 70000	145 10000 600 kHz	DUP	Divin			None	E7015	Data Mic	ne		Dig	shan Co	ue	-			
8	145 71250	145.11250 600 kHz	00P	Call C	hanne	as.	None	000	Filter			Yo	ur Calls	ign	-			
2	145.72500	140.12000.000.042	COD.	Catall			No. of Control	107 Q	1			12						
1	145 75000	145 15000 600 84	oue /	satell	ne me	mones	North	0.00	Name			Rp	et-1 Cal	Isign				
	145 75250	145 16250 600 kHz	-DUP /	GPS	Memo	ries	Nore	1000	Tone Me	da		Dr	+ 200	Inian				
	145,77500	145 17500 600 kHz	DUD	an an	Action	100	None	0.8	TONE MU	Jue		R	n-z cai	Isign				
	145,78750	145 18750 600 kHz	OMP	ŦM		1	None	1200	CTOSS			Co	mment					
5	145.80000	145.20000 600 kHz	MAUP.	FM		1	Norse	67.0										
۰.	 HI VHE M 	enoies / UHF Memones	1200 Menor	ties _ VHE La	mix Mer	noPatt Menole	DR Memories	Cal	RX CTCS	22					4			

The WCS-9700 Radio Programming Software is designed to give you the ease and convenience of programming the memories and set menu options of your radio from your PC. Any memory channel with all its details can be sent to the radio with a simple keystroke.

Memory Channels Include:

- 99 VHF Memories
- 99 UHF Memories
- 99 1200 Memories
- 18 Scan Limits (nine pairs)
- 30 MemoPad Memories
- 250 DR Memories
- 6 Call Channels
- 98 Satellite Memories
- 15 GPS Memories

Other Menu Item Categories Include:

- Common 1
- Common 2
- Band Settings
- Tone Control/Scope
- DV/DR Mode
- Speech/AGC
- GPS
- DTMF/Network
- Connectors
- Filters
- CW/RTTY

The Radio Programmer Is for so Much More than Just Memory Management.

With the WCS-9700 Programmer you can begin



a new "factory fresh" file into which frequencies and option settings are entered. Or, you can read from the radio, store these details on your computer and make changes. Then, with minimal button pushing, send the new configuration back to the radio.

The Programmer allows you to create and save as many files as you want for your radio. Files can even be shared between users via email or the Internet.

Managing all the options of this great radio becomes easy with the Programmer. The cut, copy, paste and insert features of the Programmer make channel management easier than ever.

Open more than one file at a time. Memory channel information can be copied from one

file to another within the Programmer making it really easy to set up a new file.



UFH Memories

Memory channels in the UHF band. The radio allows frequencies only within the UHF ham band for your model. Use these channels for FM and DStar memories.

	-	081	M 24 8															
Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Operating Mode	Data Mode	Filter Nan	e Tone Mode	CTCSS	Re CTCSS	DCS	DCS Polarity	Scan Select	Digital Squeich	Digital Code	Your Callign	Rpl-1 CallSign	Rpt-2 CallSign	Comment
1240.000	1240.00000		Simplex	LSB		1	Norse	67.0Hz	67.0 Hz	023	Both N							1
1240 0129	0 1240.04250		Simplex	LSB		1	None	67.0 Hz	67 D Hz	(02)	Both N							
1240.0250	0 1240.02500	_	Simplex	LSB		3	Noni	67.0.112	67.0 Hz	1221	Both M							
1240.0375	0 1240.03750		Simplex	198		1		120	0 Moi	mori	ine		_					
1240.0500	0 1240.05000		Simplex	LSB	-	1	-	120	Unvier	inter i	ies				-	-		
1240.0625	0 1240.06250		Simplex	LSB			_		(left to I	igno			-	-	-			
1240 0/30	1240.07300		Circoles	158			Desetion	-		-	-		\sim	-				
1240 1000	1240 10000		Simpley	LSB		1	Receive	Frequ	iency	DC	2		F					
1240 1129	0 124011250		Sincley	LSB		1	Transm	it Energi	uency	Dv	DCS							
1240 1250	0 1240.12500		Simplex	LSB		1	manan	rincy	ucity	110	. 000							
1240.1375	0 1240.13750		Simplex	LSB		1	Offset F	requer	nev	DC	S Pola	rity						
1240 1500	0 1240.15000		Simplex	LSB		1				-	~ .	1	_					
1240.1625	0 1240.16250		Simplex	LSB		1	Offset L	irectio	n	SC	an Sele	ct	-					
1240.1750	0 1240.17500		Simplex	LSB		1	Oneratio		4-	Die	-ital Ca	unlah						
1240 1875	0 1240.18750		Simplex	LSB		1	Operau	IB MOR	1e	Dig	Birai ad	ueicn	_					
1240,2000	0 1240.20000		Simplex	LSB		1	Data M	nde		Dis	eital Co	de	_					
1240.2125	0 1240.21250		Simplex	LSB		1	Data m			0.0	Situr oc							
1240.2250	0 1240.22500		Simplex	LSB		1	Filter			Yo	ur Calls	ign						
1240.2375	0 1240 23750		Simplex	LSB		1				-								
1240.2500	0 1240.25000		Simplex	LSB		1	Name			Rp	t-1 Cal	Isign						
1240.2625	0 1240.26250		Simplex	LSB		1	Tono M	odo		De	+ 2 001	loion						
1240 2750	1240.2/500		Simplex	1.50			Tone M	uue		RT.	1-2 Ual	BIBLI	-					
1540 5819	0 1540,58120		Surfaix	120		1	OTOCC			Co	mmont		-					

1200 Memories

Memory channels in he 1.2GHz band. The radio allows frequencies only within the 1.2GHz ham band for your model. Use these channels for FM, DStar and Digital Data memories.

	IC-9700 Uni	titled1 ×																	
	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Operating Mode	Data Mode	Filter	Name	Tone Mode	CTCSS	Rx CTCSS	DCS	DCS Polarity	Digital Squelch	Digital Code	Your Calbign	Rpt-1 CalSign	Rpt-2 CallSign	Comme
	144.00000	144 00009	_	Simplex	FM.		1	SCAN EDGE	None	88.5 Hz	88.5 Hz	023	Éoth N						
i.	148.00000	148.00000	_	Sincles	FM		1	SCAN EDG		~								-	
8	144.00000	144 00000		Simplex	TH		1	SCAN EDG		Sca	an Lin	nits					-	_	
E	148.00000	148.00000		Simplex	FM	_	1	SCAN EDG		(le	aft to rig	ht)				-	_		
Ą.	144.00000	144.00000		Simplex	FM		1 -	SCAN EDG		_					-	-			
<u> </u>	148.00000	148.00000		Simples	FM		1	SCAN EDU	Receive I	Frequei	ncy	RX C	ICSS	E 6					
	430,00000	430.00000		Cimelau	SU.		1	SCANEDO	Transmit	Freque	nev	DCS							
	450.00000	450 00000		Simples	EM.		1	SCAN FOG	mansum	ricque	ancy	000							
	430.00000	430.00000		Simples	FM		1	SCAN EDG	Offset Fre	equenc	y	Rx D	CS						
3	450.00000	450.00000		Simplex	FM		1	SCAN EDG	Offerst Di	mation		Dec	Delatitu						
Α.	430.00000	430.00000		Simplex	FM		1	SCAN EDG	Unserbi	ecuon		DCS	Folanty						
}.	450.00000	450.00000		Simplex	FM		1	SCAN EDG	Operating	g Mode		Digit	al Sque	Ich					
	1200																		
A.	1248.00000	1240.00000		Simplex	FM		1	SCAN EDG	Data Mod	de		Digit	al Code						
8	1 300 00000	1300.00000		Simplex	FM		1	SCAN EDG	Filter			Vour	Callsion	2					
8	1/40/00000	1240 00000		Circular	PM Dia		1	SCAN EDG	1 1001			roui	oansigi						
A I	1240.00000	1240.00000		Simpley	EN .		1	SCAN EDG	Name			Rpt-	L Callsig	gn 🚽					
8	1300 00000	1300 00000		Simples	FM		1	SCAN FOG	Tomo Ma	de		Det	Collei						
						-		10011600	Tone Mo	ue		Rpt-	calisi	su -					
									22010			Com	ment	_					

Scan Limits

Three pair for each band of upper and lower frequencies to set ranges for scanning within the band. The scan limits are used for Programmed scan operations.

	C-9700 Progra	ammer - IC-97	00 Sample.ICS	7700 *																×
Eile	Edit Com	munications	Settings D	Star Wind	iow Help															
0	🖉 🖬 🛛 🕹	B B 6	281	4 24 8																
\square	IC-9700 Sa	mpleJC9700 *	×																	-
	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Operating Mode	Data Mode	Filter	Tone Mode	CTCSS	Rx CTCSS	DCS	DCS Polarity	Digital Squeich	Digital Code	Your Calkign	Rpt-1 CalSion	Rpt-2 CalSign	Comment		*
	VHF 🧲	-																1		
2			-	-		-									_					
3				_	-					Men	noPa	id Me	emori	es			/			
5							-	-			(lef	t to righ	nt)			_				
6		-				-		_	Rece	eive Fre	quen	су	DCS							_
8									Tran	smit Fr	equer	ncv	Rx DC	s						
10									Offse	et Frequ	uency		DCS P	olarity						
	UHF								Offer	at Dinar	tion		Digital	Squel	ch					
2									Onse	at Direc	Ande		Distal	Ocuten						
3						-			Uper	rating M	viode		Digital	Code						
5									Data	Mode			Your C	allsign			_			
7									Filter	r			Rpt-1	Callsig	n					
8	-								Tone	Mode			Rpt-2	Callsig	n					
10	1.544								CTC	SS			Comm	ent						
1	1200								Rx C	TCSS										
2	N N VIE	Memories 10	(F Memories	1200 Memor	WHE LA	mita Me	MheRon	enories (DR)	et some a	LAUDAN	80.54	die Meno	Sec. Likes 1	lenges			14		_	
Read	,																		CAP NUM	SCRL /

MemoPad Memories

Up to 10 memories per band that as separate from memory channels. These channels are easily saved from the face of the radio using the MPAD button. These are temporary VFO channels that are overwritten in the radio when all the memopad memories are full. They are quickly recalled with the MPAD button.

Edit Come	writations Settings	that Winds	w bib	-														
	AG & B	14.41 2																
IC-9708 Uni	Medi a																	
Receive	Tranumit Othert Frequency Frequency	Offset Direction	Repeater Use	Operating Mode	Nate	Sub Name	Torve Mod	a CTCSS IPAddess	Rpi-1 CelSign	Rpi2 CalSign	Lating	Lattude	Longitude	UTC Difaet	Bark.		Ce.	universi
439 9470	431, 90000 7.60 MHz	DUP 34	2	DV A	Fam Drondicie	Nambia	Nave	W III 5Hz W	VSIEV B	V530V G	Approximate	2112365	17671760°E	+07 (0)	1 Ahta	50		1
145.60000	145 0000 4001kHz	-DUP	2	ΰv	Fam Dzohdjicze	Nanibia	(Nove-	100.644z	VSIEV C	VSXV G	Approvinue	2112365	D161750 E	+01.00	1 Alica		-	
145.70000	145 10000 600 kHz	-948	8	04	Windhook.	Natibia	Acres					0.5	0171048E	+01.00	1 Aliva	-		
43125250	430.68250 7.60 MHz	DUP	-2	DIV.	Pretosia	5 Ahic	Nave	DR	Mem	ories		85	0371012°E	+022.033	1 Ahta			
43827580	430.67500 7.60 AMU	-DUP	R	14	Pretoxia	S.Abc	Nork	DA	Tricin	Torres		05	D275V2ATE	+02-00	T Anca			
430,25000	430.65000 7.60 MHz	OUP	8	04	Filteria	5. Abic	New	(1	left to ri	ghti		0.5	039°1734'E	+02:00	1 Aliva			
145.6500	145.22500 600 kHz	-DUP	2	DIV.	Santon	-4-46c	Nave					05	Distance E	+02.00	1 Ahca			
47970000	434 70000 % 00 MHz	-DUP	2	DV.	Sherplang	Owne	-	Deceive Frague	mou	ID Ac	Idraec	21	127272KE	+081-000	2.844			
43972500	434 72500 5:00 MHz	OUP	8	04	Elveryang Linins	Chine	Acres 1	neceive Freque	ally	IF AL	luiess	6.11	123/25/36/E	+04.30	2 Asia			
145.63750	145.03750.600 kHz	-DUP	2	DIV	Troodice MI.	Cyptus	Nove	Transmith Frances		Dat 1	Callain	a 11	812'51'8'E	+02.00	2 Ami			
4795000	434 50000 5 00 MHz	-DUP	2	DV.	Ultan	Karen TI	Norie	transmit Frequ	ency	Rpt	t callsig	n _{Fh}	129/272KE	+039.000	2 844			
433 33750	435.33750 6.00 HHz	+00P	2	04	Tacyuan	Taings.	Nove					476	12171E36°E	+08.00	2 Asia			
144.35750	146.13750 2 (E) MHz	+DUP	2	DIV	Licopuaro	Land	Nave	Offset Frequence	cy	Rpt-2	2 Callsig	n 🚛	1211E16E	+08 08	2 Aite			
144.33750	145 3375D 2 (D MHz	+DUP	F	DV.	Tatyliat	Taimat.	Note		4		-	F11	1211E26E	+00:00	2.844			
430.01250	433.01250 5.00 MHz	DUP	2	04	Barglick.	Thelent	Acres	Offset Direction	1	Latin	10	471	100°37'96'E	+07.00	2 Asia			
145.61250	145 (1250 400 kHz	-DUP	P	DIV	Earchok.	Thaland	Nove					411	1073776°E	+67 GD	2 Aite			
430.01250	433 01250 % 00 MHz	-DUP	E.	DV .	Dview Mai	Thelent	None	Depenter Lice		1 atits	ida	011	COUNTER	+07.00	2.844			
145 Eh250	145.01250 600 kHz	0UP	2	04	Overgitte	Thelent	Acres 1	nepeater ese		Laure	100	874	099'00'36'E	+07'00	2 Asia			
438.01250	431/01/250 5/00 MHz	-DUP	P	DIV	Dorbur	Thaland	Nave	Operating Mode	-	Long	itude	014	1075050°E	+67 GD	2 Aire			
45 61250	145 (T250 600 kHz	-DUP	R	DV	Charles	Thaland	Nore	operaulig Mous	e :	Long	nuue	011	TIDSENDE	+07.00	2.844			
430.01250	433.01250 5.00 HHz	OUP	8	0V	Make Sarakham	Thelevel	Acre	Aleman.		LITO	Ottant	274	1031949°E	+07.00	2 Asia			
145,61250	145.01250 400 kHz	-DUP	P	DIV	Mate Sociation	Thaland	Nav	Name		UIC	Unset	214	1071948°E	+67.00	2 Aint			
438.01250	42101250 5.00 MHz	-DUP	P	DV	Pathan There	Thaland	Nore					171	NUMBER	+07.00	2.644			
145 61250	145.01250 600 kHz	OUP	2	0V	Patrum There	Thelent	Nove	Sub Name		Bank	(171	100'06'6'E	+07.00	2 Asia			
438.07250	431/01/250 5/00 MHz	-DUP	P	DV	Philametek.	Dalard	Nave					471	1074276°E	+67.00	2 Aire			
145 61250	145 (0250) 600 kHz	-DUP	R	DV	Philamaki	Thaland	North	Tone Mode		Com	ment	171	TRACET	+07.00	2.644			
\$30 01250	470.01250 5.00 MHz	Disp	D	DV	Planter	Delaut	Acres 1	10/10/11/000				876	099/2712/F	+07.00	> Anne			
145 63 250	145 (01)50 400 kHz	DUP	6	EV.	Physical	Dealarst	New	CTCSS				111	100/2212/6	+07.00	2 Arra			
H DATE N	Internet Internet	1200 allowers	to Famil	make Million	PL		P.400	01000										_

DR Memories

Memories to be use in DR mode. The list consists of frequencies for worldwide locations.

	-9700 Program	mmer - IC-97	00 Sample IC	9700 *															-		×
Elle	Edit Com	munications	Settings [Star Wine	dow Help																
0	2 🖬 X		1881	Ma 24 🛛 😵																	
\sim	IC-9700 Sar	mpleJC9700 *	×				_			_		_									.,
1	Receive Frequency	Frequency	Frequency	Direction	Operating Mode	Data Mode	Filter	Name	Tone Mode	CTCSS	CTCSS	DCS	Polarity	Digital Squeich	Code	Callign	Rpt-1 CallSign	Rot-2 CallSign	Comment		ł
C1	146.52000	146.52060		Simplex	FM		1	FM Call CH 1	lone	88.5 Hz	88.5 Hz	023	Both N	011	0	cacaca			1		1
C2	145.67000	145.67000		Simplex	DV	-	3	DV Call CH 1	lone	88,5 Hz	00.5 Hz	(2)	Both N	0#	0	COCOCO		-			
C1 C2	446.00000 445.67000	446.00000 445.67000		Simplex Simplex	FM DV	-	1	FM Call CH 1 DV Call CH 1	for ion	(Call C	han	nels		E						
C1 C2	1200 1294 50000 1294 50000	1294 50000 1294 50000		Simplex Simplex	FM FM		1	FM Cal CH	Rece	sive Fre	equenc	у	Rx CT	CSS	-	Cacaca					
									Tran Offse	smit Fr et Frequ	equency	сy	DCS Rx DC	s							
									Offse	et Direc rating N	tion Node		DCS F Digital	olarity Squelo	h						
									Data	Mode			Digital	Code							
									Filter	r			Your C	allsign							
									Nam	e			Rpt-1	Callsign	۱						
									Tone	Mode			Rpt-2	Callsign	1						l
144	N H VHEN	Memories - LP-	HF Memories	1200 Memo	vies VHFLa	nis Mer	noPad M	temories _ DF	CTC	SS			Comm	ent			141				ļ
Ready										-									6	AP NUM SCP	21

Call Channels

Home/Call channels are special memories accessed through one button recall on the radio. These channels are preprogrammed in the radio and while the frequency can be changed to another within the band, they cannot be left blank.

# .	0 8 A 21 1	8										
Frequency Operating Mode	Data Filter Nam	e Tone Mode	CTCSS	Rx CTCSS 67.0 Hz G	DCS	DCS Digital Polarity Squelch Both N U Dif U	Digital Code	Your Callsign (Rpt-1 CallSign	Rpt-2 CallSign	Connert	
445,55000 FM 445,40000 FM 145,60000 FM 445,45000 FM	1	None None None	67.0 Hz 67.0 Hz 67.0 Hz 67.0 Hz 67.0 Hz	67.0 Hz 67.0 Hz 67.0 Hz 67.0 Hz	023 023 023 023	Sate	ellite /	Memo o right)	ries			-
445.65000 FM 445.50000 FM 1255.35000 LSB 1265.75000 LSB	1 1 1 1	None None None	67 0 Hz 67 0 Hz 67 0 Hz 67 0 Hz 67 0 Hz	67.0 Hz 67.0 Hz 67.0 Hz 67.0 Hz	023 023 023	Frequency Operating M	ode	Rx DC	DCS S Pola	rity		
						Data Mode Filter		Dig Dig	gital So gital Co	juelch de		
5 6 8						Name Tone Mode		You R pr	ur Call: t-1 Ca	sign Ilsign		
4 4						CTCSS Rx CTCSS		R p Cor	t-2 Ca mmen	llsign t		-
						DCS						

Satellite Memory

99 pair of TX (uplink) and RX (downlink) frequencies for use in satellite operations.

— ю	9700 Programmer - 1	C-9700 Sample.IC9	700 *							-		×
Elle	Edit Communicatio	ons Settings DS	Star Window Help									
Dis	A Part I	8 8 8 B	1 24 8									
6	IC-9700 Sample IC9	700 * ×										
	Name	Date	Time	Latitude	Lon	abute	Gran				_	
1	com America	01\01\2019	00.00.00	47-3750 N	122111051	W	1					H
2	Tokyo Bigsite	01\01\2049	00:00:00	35'3747'N	139'47'40'	E	None /					
3	Dayton Hamventio	01\01\2019	6940.00	39'49'27'N	084'16'43	-						
4	Friedlichshalen	01\01\2019	00.00.00	47"40'42"N	009'30'22		GPS Memor	ies				
5	Tokyo Station	01\01\2019	00.00.00	35 4962 N	139'45'58		(loft to right)					
6	Shinagawa Statio	01\01\2019	00:00:00	35'3742'N	139'44'24		tier to right					
7	Shin Osaka Stati	01\01\2019	00.00.00	34"44'01"N	135'30'01			1 although				
8	Hakata Station	01\01\2019	00.00.00	33"35'23"N	130'25'16	Name		Latitude				
9	Tsurugiganine	01\01\2019	00.00.00	35°21'38'N	138'43'39	Date		Longitude				
10	Cawaguchiko guch	01\01\2019	00.00.00	35"23"39"N	138'43'57	Date		Longitude				
11	Fujiniya guchi	01\01\2019	00.00.00	35"20"13"N	138'43'59	Time		Group				
12	Subashiri guchi	01\01\2019	00.00.00	35"21"60"N	138'46'43	mine		arcap				
13	Gotenba guchi	01\01\2019	00.00.00	35°20'10"N	138'47'41	c	Group c					
14	Fuji Yoshida	01\01\2019	00:00:00	35°28'20'N	138'47'46'	ε	Group C					
15							Group C					
16												
17												
18												
19												
20					_							
21					-							
22					-		-					
Z3					-							
24					-							
25		-			-							
26	N VHF Memories	LIHE Menoies	1200 Memories / VHF Limits	MemoPad Memories	DR Memorie	ALC: Cal O	annels / Satellite Memories	GPS Memories	14			
										-		

GPS Memory

Once stored in the radio during GPS operations, these channels are read from the radio with the other details.

Radio Menu Settings

0	Mrth Center Bror	Destad		
yboard Layout glath ↓ Aloard Trpe & Reyboard ↓		Distance of the b	Deplay Fort	Positive Format
yboard Layout glain v Alfoard Type & Kryboard v Ub-Down Sound		22 BW PROXD (Fill)	Basic -	ddd'mm.mm'
gaan v doord Type A Repbard v Ub Door Sound	Catting	Elen Hand Serie	Chericau Turne	Although Distance
floord Type #Keyboard ~ Uniform Stand		Meter Peak Publ	A v	meter v
I Reyboard ~		Memory Name		
Uniform Grand	Planitor Level	Piret-Q Popup	Display Language	Speed Units
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Common

Use this screen to customize many set menu features of the radio. Check boxes toggle features on or off, use drop down menus list all selections and blank boxes for personalized entry add to the ease of setting up your radio exactly like you want it.

The entries on the Settings screens are made for you to "Set and Forget". Once settings are customized, you are prompted to save before exiting. The saved settings will be there every time you create a new frequency file.

Teles Help													
ommon T Common	2 Band S	etting	Tone Co	ntici /	Scope DV	/ Speech	625	DIMF.	Network	Convectors F	Ans Cvi/R	TTY	
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Band Settings

Set options for functions that operate differently for each band (VHF, UHF and 1.2 GHz). Power, Auto Repeater Edges and User Ba nd Edge are just a few that can be set separately for each band. The options are laid out in a way that makes it easy to know what you are setting for which band.

Tone Control/Scope

Set options for Bandpass filters and bass and treble pitch for each of the operating modes, SSB Bandwidth and options for the performance of the Scope and Waterfall display with the options on this screen.

DV/DR Mode

Options that control performance in digital modes are found and set on this page. Options include Filter settings for DR and FM modes, Noise reduction that is set separately for the Main and Sub bands, Digital Squelch set separately for the Main and Sub bands and DV Fast data options for use in GPS operations.



Efelp on 2 Band Settings Tone Control / Sc 685 Files Cv//RTTY OPS Auto Tx Timer prs Select Internal GPS] ↔ Pesition Depkey Latest (Main/E ~ Alarm Area (Sroup) 00.25 Compess -Dover OV 0 dB v Height 158 Orectiv ÷ Symbol 1⊡/r House QTH (H4) ↓ GPS Sentence RMC DOGA DOL DOSA DVTG DOSY 310 / Var * A Truck



ACC Send Market Parket Regent ACC M/B Code/L/Scope DV //Speech G/PS D1MF //Heterod. Connectors Files: CV //RTVY U28 Photosin Distance U	Jates Help				
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Speech/AGC

Control options for how the radio announces callsigns and other details, QSO history logging options, QSO Recorder options, and AGC options for each mode.

GPS

Set option for GPS functionality. Remember, this screen has more options than those shown. Be sure to click on each of the Position, Object, Item and Weather tabs to set options for each of those D-PRS operations.

DTMF/Network

Set DTMF memories for those DTMF strings you use repeatedly. Network options let you give the radio details of the network on which it is operating. DV gateway gives you even more functionality in this radio and your D-Star activities.

Connectors

Set options here for input and output through the many connectors on the back of the radio including the external speaker, the headphone jack, the CI-V port, the ACC port, and the USB B port.



Jab	s Elelp				
mon 1	Common 2 Band Settings Tone Control	Scope DV/Speech GPS	DTMF / Network Connectors	Files Ow/RITY	
w			RTTY		
	Mic Up/Dawn Keyel Side Tone Level Limit Break-In Dot/Dat Dot/Dat Dot/Dat Dot/Dat Dot/Dat Dot/Dat	Amber ITatio v	Decode Log Decode US/05 Ta US/05 Decode New Line CRLF.CR-LF	Time Stamp Time Stamp (Firequency) Shift Width 170Hz ~ Time Stamp (Time)	
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-	Manual Variation			Use \ Ax CR+LF.	_
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M2	UR SWN* EX		RT2 DE ICOMICOMICOM K		
143	CPM TU		R13 405L UR 599-599 BK1		
144	0427		RTA USLOE ICOMICOMURS	199-599 BKN	

Filters

Customize filters for each mode and each band. Set upper and lower limits for peak performance.

CW/RTTY

Set options for CW and RTTY activities including the 8 messages for each.

D-Star Calculator Advanced

ource	Destination	Link to Repeater:	List T. D. Bata
Source Hepearet	Name		Link to heliectors
United States	Tak KDOLUX T		BEE001A - Aurora Illinois United States
	Echo KDOLUXE		
State	El Cistor KD0111X1	Australia	
Colorado	Status Rocort	Canada	
	Unlink KDOLUX U	Europe Central	REF002B - Some Nets
Lity		Europe Eastern	REF002C - Some Nets
Broomheid		Europe North-West	REF003A - Ad-hock & Emergency Use
Callsian	Repeater Channel Name	Europe Northern	 REF003B - Permaink for Repeaters, inc
KDOLUX -	Callsign	Europe Southern	
	C Location (Lity)	Europe Western =	- REF004A - Alternate for Southeastern L
		Germany	
147.3750 +0.6000	Callsign Routing		REF004L - General Rag Lnew (English DEE005A - UK Nata Paravirak Papart
	*		DEE005R - Eroph Language - Swise av
			BEF005C+London England
			BEF006A - Scottish Net
		USA Hawaii	
DVAP Hotspot		USA Midwest	
Frequency Name	-	USA Northeast	REF007A - Italy
14655000		USA Northwest	
		USA Southeast	4 III +
Frequency 147.3750 +0.6000		0 repeaters selected Reset	0 reflectors selected Reset
PDT1 (Course) DDT2 (Destination)			
		Charling Changed Mumbers 0	

Source and Destination:

The D-STAR Calculator automatically sets up the Talk, Echo, Info and Unlink channels for your "Source" repeater. The "Source" is the repeater you access to begin your adventures. Just like with analog repeaters, you must be able to hit the "Source" repeater.

Talk - the CQ channel for talking with others.

Echo - a test function that repeats your transmission back to you. Good for letting you know that you are, or are not, hitting the repeater.

Info - The function that triggers a status response from the repeater (i.e. linked to "where"... not linked).

Unlink - Disconnects the current link of the repeater (where allowed). More widely used to disconnect a link you establish. Remember... if you link, it's always polite to unlink (hang up the phone) when you're done unless someone has joined you locally. Then you might leave it to them to unlink.

The calculator sets up the same channels for a DVAP hotspot. You enter your frequency only once.

ource	Destination		
Source Repeater	Name	Link to Repeaters 🔻	Link To Reflectors
Country	Talk KD011XT	i∎ Italy ∧	Reflectors
United States 🔹		. ∰- Japan	REF001A - Aurora Illinois, United States
	Echo KDULUX E		REF001B - Illinois D-STAR repeaters
State	Status KD0LUX1	⊕- New Zealand	
Colorado	MILES FORINI	USA Alaska	
Citu			
Broomfield			- HEFUU2C - Some Nets
(Repeater Channel Name		PEF003R - Ad-nock & Emergency Use IPEF003R - Permainity for Penealers inc.
Callsign	Callsion		BEF0030 - Australian Nate
KDOLUX 👻	Calling (Citu)	District Of Columbia	BEF0044 - Alternate for Southeastern L
	C Ecconor (city)		BEF0048 - Texas Permaink Repeaters
147 2750 -0 6000		H- Maryland	
141.0130 40.0000	Callsign Routing		
	*	East Freetown	REF0058 · French Language · Swiss ar
		Feeding Hills	REF006A - Scottish Net
DVAP Hatsoot		ia	
Frequency Name		A 1282.5000 +12.0000	
146 55000 14655000	-	B 449.1750 -5.0000	REF007A - Italy
140.0000			REF007B - Italy
		* III +	* III +
Frequency 147.3750 +0.6000		1 repeaters selected Reset	0 reflectors selected Reset
RPT1 (Source) RPT2 (Destination)			

Route/Link to Repeaters:

Now that you identified your "Source", let's set up your Destination. In D-STAR you can Link to Repeaters or Route to Repeaters. To set up channels that link or route, use the drop down at the top of the first tree to select your function, then select your repeaters by checking a country, region, state, city or individual repeater. A counter below the list keeps track of how many you have selected.

urce	Destination		
Source Repeater	Name	Link to Repeaters 👻	Link To Reflectors
Country	Talk KDOLUXT	⊕ltaly	
United States 🔹	Esha KDOUINE	🔁 🔲 Japan	
itate	Echo KDOLONE	Latin America New Zealand	BEE0358 - Washington State
	Status KD0LUX1		BEE035C - Washington State
Colorado +	Unlink KD0LUXU	USA Hawaii	
		- USA Midwest	
Broomfield 👻		USA Northeast	
allaian	Repeater Channel Name	Connecticut	
alisign	Callsign	Delaware E	REF037B - Central Florida Reflector
NDULUX +	Cocation (City)	District Of Columbia	— REF037C - Central Florida Reflector
			REF038A - The Ohio Reflector
147.3750 +0.6000	Callsian Routing	⊕Maryland	
	Calisign Housing	- Massachusetts	REF038C · Dayton Hamvention
	-	East Freetown	
		Fall River	REF039B - Ohio State Wide EMA
		E-VFeeding Hills	- ■ REF039C - Ohio State Wide Severe Wi
DVAP Hotspot			REF040A - Portugal
Frequency Name		- []A 1282.5000 -12.0000	- REFU408 · Portugal
146.55000 14655000	*	B 449.1750-5.0000	REF040L · Portugal
		۲ m ۲	* F
requency 47.3750 +0.6000		1 repeaters selected Reset	4 repeaters selected Reset

Link to Reflectors:

For even more fun, and a great way for a beginner to get started, Link to Reflectors. D-STAR reflectors are a special type of Internet connected gateway that rebroadcasts each signal to all the other linked nodes or repeaters. Remember... EVERYBODY is listening... but that's what makes it fun. You have a whole world to talk to through your local repeater, "Source", linked to a reflector. To set up a channel that links your repeater to a reflector, check the box for that reflector in the Link to Reflector tree.

Click Apply once to set up all these channels for the radio.

IC-9700 Programm	mer - IC+9700 Unit?	led1+								- 0	×
file Edit Sommu	mications Settin	n Ostar We - Magi 1	ndow Help								
🕳 1C-9700 Units	led1 * X										
Receive Frequency	Other Other Frequency Direct	et Operating ion Mode	Name Dig	tal Dight nich Cod	al Your Callsign	Rat 1 CallSign	Rpt-2 CallSign	Comment			1
2 147 37500 60	30 kHz +DUP	DV DV	ATHRA OF	0	/KIMRA(KDOLLOCO	KDOLLIK D	sokine			
3 147 37500 66	00 kHz +DUP	DV	ACC18JBIOH	0	/KC1BJBD	KDOLUKO	KDOLUK G	etmouth.			
4 147.37500 6/	30 kHz +DUP	DV	A:B1wLF0#	0	/KB1WUA	KDOLUK C	KDOLUK 6	at Freetows			
5 147.37500 60	00.kHz +DUP	DV	ASB1WUP DE	0	/KB1WUV	KDOLLEK C	KDOLUKS	of Freetown			
6 147.37500 EF	30 kHz +DUP	۵V	/KB1WU10#	0	/KB1WUN	V KDOLUO(D	KDOLLOG	d Freetove			
7 147.37500 60	001Hz +DUP	DV	ACTRFLA ON	0	/K1RFLA	KEIGLUK Ö	KDOLUK G	E River			
B 147.37500 60	00 kHz +DUP	DV	/%IRFIB O#	0	/K1RFI B	KDOLUK C	KDOLUK G	I River			
9 147.37500 60	001Hz +DUP	DV-	ACTRFI C: Off	0	/K1BFLC	KDOLUK C	KDOLUK G	ERivel			
10 147.37500 60	00 kHz +DUP	DV	/#B12EG.0#	0	/KB12EG	C KDOLUK C	KDOLUK G	mouth			
11 147.37500 60	001Hz +DUP	DV	AW1KK #0#	0	AVIER A	KDOLUK C	KDOLUK 0	eding Hills			
12 147.37500 60	00 MHz +DUP	DV	/W1KK 80#	0	AV18X B	KDOLUK C	KDOLUK 0	eding Hills			
13 147.37500 60	00 kHz +DUP	DV	WIKK COR	0	WIKK C	KDOLUK C	KDOLUK G	eding Hills			
14 147.37500.60	30 kH: +DUP	DV	/AA1KK.EQE	0	AA1KK B	KDOLUK C	KDOLUK G	vence			
15 147.37500 60	30 kHz +DUP	DV'	AW1DSR OH	0	/w/t0SR	B K D GLUK C	KDOLUK G	āston			
16 147.37500 60	301H; +DUP	DV	AV1DSR 0#	0	Av/105B	C KDGLUK (KDOLUK 6	iliston .			
17 147 37500 60	301Hz +DUP	DV	/w1MRA.08	0	JW/1MRA	EKDOLUKO	KDOFTIK B	apoont			
18 147.37500 60	301Hz +DUP	DV	/KCIADEO#	0	/KCIACIB	KDOLUK C	KDOLUK G	eth Oxford			
19 147 37500 60	00 kHz +DUP	DV	/XETAMF Of	0	/KCIAMFI	B KDOLUK C	KDOLUK G	utield			
20 147.37500 60	001Hz +DUP	DV	AWA1JIM O#	0	/WA1JIM	REDOLLOS C	KDOLUK G	incy			
21 147.37500 60	30 kHz +DUP	DV	AWA1PLEON	0	AWA1PLE	EKDOLUX: C	KDOLUN G	sipole			
2 147.37500 60	001Hz +DUP	DV	AVB1GD Off	0	Av@1909	EKDOLUK C	KDOLUK D	estiond			
23 147.37500 60	00 kHz +DUP	DV	AVB160 OF	0	Av8100	LKDOFTSK C	KDOLUK 0	estiond			
24 147.37500 60	OTH2 +DUP	DV	/K8158JI0#	0	/K81SBJ0	KDOLUK C	KDOLUK G	extlord			
25 147.37500.60	00 NHz +DUP	DV	REF03SA OF		REF039A	KDOLLOCO	KDOLUK 6	F039A - Onio State Wide ARES			-
4 . 4 VHF Me	mones / UHF Mem	sies / 1200 Mem	voriesScan Liné	ta MemoPa	ad Memories	DR Menor	es Cal C	elsSatolite MemoriesGPS Memories	4		



The resulting channels are set up and ready to go.

Your callsign, Rpt 1 Callsign and Rpt 2 Callsign are set automatically... No wondering which suffix goes where, of if it is positioned correctly. That is all done for you.

mmon 1 Common 2 Ban	d Settings Tone Control / Scope DV	/Speech GPS DTMF/	Network Connectors Filter	CW/RTTY
CW Normal Side 1/38 Keyboard Layout English Keyboard Type Full Keyboard Mc Up(Down Speed Fast RF + Sol RF + Sol North) Switch AM Auto/Manual North) Switch SSB Auto/Manual	AFC Limit FM(DV Center Error SSB(CW Sync Tuning PTT Look Monitor Monitor Monitor MonoPad Quantity Sorien Capture [Power] Screen Capture [Power] Screen Capture [Power] Core Capt	Daplay Daplay SW Popup (PIL) SW Popup (PIT) Meter Peak Hold Menory Name Meter Peak Hold Office Popup Power On Check Copering Message Copering Message Scroll Speed Fast Rado Comment	Display Font Basic V Display Type A V Display Language Englah V System Language Englah V LCD Ducklight 50% V Tx Meter Select Po V Soreen Saver 60 minutes V	Position Format dddfmm.mm ² v Althude/Distance meter v Speed Units km/h v Temper ature C v Daronictic hPia v Rainfall mes v Wind Speed m/s v
SS8 TBW TBW COMP OF# Wide * TBW COMP On	Dial Main Dial Auto TS High ~~ V I Hz Mode	Sub Band Mute (Tx) Speaker,Phones US8 LAN	Lock [Speech/Lock] Switch Speech/Lock ~ Lock Function Main Dial ~	Quak Split Quak Split Split Look Split Offset 0.000 + MHZ

Name can be edited

here to better identify the station. Name is what you see on the radio. It is not part of the D-STAR commands for use of the system. It may be all you have to identify the function of a channel. (Notice the frequency is the same for ALL these channels although they each do something different on the D-STAR network.) Make the Name something you understand.

Note: Be sure to turn ON the name display for the radio to use what you enter in the name field.

To Use these Settings for D-STAR Fun:

- Save and send the file to the radio.
- Listen on the talk channel.
- Be sure your call sign is registered on the system.
- Check repeater status on info channel.
- Check your connection to repeater on Echo channel.
- Link repeater to a connection of your choice.
- Talk on Talk channel.

HAVE FUN!

K-9700 Sa	nple X																	
Receive	Transmit Other Frequency Frequence	Ditteri Dectars	Reputer Dat	Operating Munde	Name	Sub- Materia	Torie Mode	cress i	P.Addect	Rett	Rpt 2 Californ	Labe	1	Latitude Longhade	UTC	But.		Lower
449 (750)	444 27500 5:00 MHz	OUP. U	21	OV I	Brickton	Macouthy	Now 4	54.6112		KBT(AC B	#BIYACG	Exact	42'00'35	071 000014	-05:00	13 USA Noteent	Hamachurette Brockhov	
14516000	144 56/00 600 kHz	DUP	2	DV.	Booking	Masserhu	Hare	34 8 Hz		KIMBA C	KINPUA D	Exact	42720745	5"N 011"34'04"W	-25.00	15 USA Nortwald	Massachusetts Brookline	
145 29000	144 59000 500 kHz	€UP	2	EV.	Dattesth	Massachu	Mayer	DEEN		AC18.9 C	FCIBIE G	Exact	41'37'11	079/58/27 W	-05/00	19 USA Norteen	Massachusetts Datmovith	
147 40500	147.40500	400P	2	DV	East Freatown	Massachai	Apprix	34.0Hz		KETWIN/A	FETWOWS:	Esort	41.4					
483.77500	444.77500 5-00 HHz	QUE	8	0V	EastFreekown	Manadhu	No.	34340		KBTIW/W/B	KBIWUWG	Exect	415 05	shart calculator for DR Memor	-			100
47 57500	148 57500 1.00 MHz	BUP	2	DV.	EastFreetown	Massachu	Mirer	SHEHE		RETWO/W D	#BIWUW 6	Exact	41'4		-			
45,29000	148 59000 400 kHz	ÊÚP	2	DV.	FallRow	Maszarbai	ALUMA.	THE HE		KINDI A	KIRR G	Exat	419	Select repeater to add to the DR.	nemates.			
49.52500	444.52500 5.00 MHz	OUP	2	04	FallFirm	Manasha	Harat	54%Hy		K1RPLB	KIBB G	Exel	411					
45 43000	144 02020 100 kHz	-EUF	2	ΠV	Fallien	Massechu	Martan	2M EHts		KTER C	11101-12	Load	41.2	10 CONSTRAINT		there are the		
45,21000	144 51000 500 kHz	EUP	- 63	DV	Falsouth	Massachu	Minte	54.010		AB12EG C	191259.0	Approximate	411	E ASick		200.000	arres	
92 50000	1270 50000 12:00 MHz	CUP	8	0V	FeedingHills	Massachu	North	54.6162		WTKK A	WIKE G	Exact	427	III Asa		1	 Automorement 	
183 17500	444.17500 5-00 MHz	-QUP	8	DY	FeedingHills	Mattachu	1 com	74.0147		WINX B	WIRK G	Exact	420	= Astala				
45.15000	144 55000 800 kHz	CUP	2	EIV.	Feedingtifilit	Mazzachu	Monik	54 EHz		W168: C	WHE B	Exact	421	III Canada				_
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D-STAR Calculator for DR Memories:

D-STAR Calculator for DR Memories lists repeaters worldwide for you to update or customize the list in the radio. Easily customize this list for places you plan to travel or places you want to work using a DR memory as your RPT2 repeater.

All repeater nodes are listed. Those the radio can use to transmit will be set automatically for "Repeater Use".

Latitude and Longitude are included where that info is available from the source and the repeater is marked for use.

Click a country, region, state, city or individual repeater.

Use starting channel to replace or carefully add to your list.

No searching for data, it's all right in the RT Systems Programmer.

The D-STAR calculator is updated automatically with the program. Just "Check for Updates" periodically to be sure you have the latest list.



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