QUANSHENG UV-K5
PROGRAMMING ASSISTANCE

ARMEL

F4HWN V2.8

Menu, Menu description, Help, Video, ...

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https://www.dropbox.com/scl/fi/33tvbgx94je36tdhdq8ow/MENU-Armel-F4HWN-2.8.pdf?rlkey=309vdmpk2jqrzkt7yxnkydyjc&dl=0

Contents

The ORIGINAL K5 menu is HERE: https://uv.immo-scope.com/article/uvk5_menu The instructions in French HERE: https://www.dropbox.com/scl/fi/pe5b5rgib8uqhhjguaf62/Doc-UV-K5_FR. pdf?rlkey=iuus9i3howlzf7as8141o4sz6&dl=0
OR https://alfaexploit.com/en/posts/hamradio1/#quansheng-uv-k58uv-k6
The Quansheng website: http://en.qsfj.com/products/3268

MENU FIRMWARE F4HWN v2.8

You will find in this PDF, the keyboard functions of the K5, and the description of the functions in alphabetical order

1	step	0.01	6.25 6.25K	8.33	9.00	10.00	12.5 12.50K	15.00	20.00	25.00	30.00	50.00	100.00	125.00	200.00	250.00	500.00		
2	Power	LOW Menu 55	MID 2W	HIGH 5W															
3	RxDCS DcxxxN	OFF	D023N	D754N DC754N	/	D023I	D754I DC754I												
4	RxCTCSS Ctxxx	OFF	67Hz	==>	254.1Hz														
5	TxDCS DcxxxN	OFF	D023N	D754N DC754N	/	D023I	D754I DC754I												
6	TxCTCSS Ctxxx	OFF	67Hz	==>	254.1Hz														
7	RTX0Dir - or +	OFF	+	-															
8	TxOffs	0.00000 MHz	==>	1000,00000 MHz															
9	W/N	Wide Wide	Narrow Narrow																
10	BusyCL	OFF	WE																
11	Compnd	OFF	TX/RX	RX	TX														
12	Fashion	FM FM	AM RX A.M.	USB USB															
13	ScAdd1	OFF	WE																
14	ScAdd2	OFF	WE																
15	ChSave	see description																	
16	ChDelete	see description																	
17	ChName	see description																	
18	Slist	LIST1 1 ><	LIST2 2 ><	ALL [ ] ><															
19	SlList1 I	Channels stored in list 1																	
20	Slist2 II	Channels stored in list 2																	
21	ScnRev	CARRIER	STOP	TIMEOUT															
22	F1Shrt	None	Flash Light	Power	Monitor	Scann	Vox FM Radio 1750		Lock Keypad	VFO A VFO B	VFO SAME	FASHION	TMP OFF	RX Fashion	Hand Only	PTT			
23	F1Long	None	Flash Light	Power	Monitor	Scann	Vox FM Radio 1750		Lock Keypad	VFO A VFO B	VFO SAME	FASHION	TMP OFF	RX Fashion	Hand Only	PTT			

F4HWN K5 MENU

24	F2Shrt	None	Flash Light	Power	Monitor	Scann	Vox FM Radio 1750	Lock Keypad	VFO A VFO B	VFO SAME	FASHION	TMP OFF	RX Fashion	Hand Only	PTT
25	F2Long	None	Flash Light	Power	Monitor	Scann	Vox FM Radio 1750	Lock Keypad	VFO A VFO B	VFO SAME	FASHION	TMP OFF	RX Fashion	Hand Only	PTT
26	M Long	None	Flash Light	Power	Monitor	Scann	Vox FM Radio 1750	Lock Keypad	VFO A VFO B	VFO SAME	FASHION	TMP OFF	RX Fashion	Hand Only	PTT
27	KeyLck	OFF	AUTO												
28	TxTOut	00:00:30	has	00:15:00	Press the Up/Down arrows to adjust the time in steps of 5 Sc										
29	BatSav P.S.	OFF	1:1 P.S.	1:2 P.S.	1:3 P.S.	1:4 P.S.									
30	BatTxt	NONE PERCENT VOLTAGE													
31	Mic	+1.1db	+4.0 db	+8.0db	+12.0db	+15.0db									
32	MicBar	We	Off												
33	ChDisp	NAME + FREQ	FREQ	CHANNEL NUMBER	NAME										
34	PonMsg	NONE	ALL	SOUND MESSAGE VOLTAGE											
35	BLTime Lighting duration	OFF	WE	00:00:05	has	00:05:00	Press the Up/Down arrows to adjust the time in steps of 5 Sc								
36	BLMin Mini light	0	1	2	3	4	5	6	7	8	9				
37	BLMax Max light	1	2	3	4	5	6	7	8	9	10				
38	BLTxRx	OFF	TX/RX	TX	RX										
39	Beep	We	Off												
40	Roger	OFF	ROGER	MDC											
41	STE	OFF	WE												
42	RP STE	OFF	1*100ms 2*100ms		==>	10*100ms									
43	1 Call	Choose a channel for 9 Call button shortcut													
44	UPCode	12345543 54321													
45	DWCode	54321													
46	PTT ID	OFF	UP CODE	DOWN CODED	UP+DOWN CODED	APPOLO QUINDAR									
47	D ST	We	Off												
48	D Prel	3*10ms	==>	99*10ms											
49	D Live	We	Off												
50	AM Fix	We	Off												
51	VOX	OFF	1	==>	10										

52	Sys Inf	Displays battery voltage, percentage, and firmware version							
53	RxMode	Hand Nail MO	Dual RX Reply DWR	Cross Band XB	Main TX Dual RX DW				
54	SQL SQL x	0	1 SQL1	==>	9 SQL9				
55	SetLow L1 ---> L5	20mW L1	125mW L2	250mW L3	500mW L4	1W L5			
56	SetPtt	Classic CL	OnePush OP						
57	SetTot	OFF	Sound	Visual	All				
58	SetEot	OFF	Sound	Visual	All				
59	SetCtr Contrast	0	==>	15	11 : Standard rendering				
60	SetInv	We	Off						
61	SetLck Padlock	KEYS	KEYS + PTT						
62	SetMet S-Meter	Classic	Tiny						
63	SetGui BaseLine Font	Classic	Tiny						
	The Hidden Menu is activated by holding PTT + F1 BUTTON and TURNING ON THE RADIO								
64	F Lock See description	DISABLED ALL	UNLOCK ALL	ÿ TX DISABLE (RA) See description Page 8	...	...	PMR		
65	TX200	We	Off						
66	TX350	We	Off						
67	TX500	We	Off						
68	350 EN	We	Off						
69	BatCal See description		Change value	, Measure with a Voltmeter					
70	Bat Type	1600 MAH	2200mAH						
71	Reset	VFO	ALL						

SHORTCUTS ACCESSIBLE DIRECTLY FROM THE KEYBOARD

*Long scan Memory scan	long press list	long press whole list 2	long press list [1]	If the “line” is triggered (Short press) >---------- (DTMF), Press EXIT LONG to exit		
Display	>>	Indicates the last VFO to have received a Reception (RX)				
F+8	37 BLMax Max light	Displays a light bulb in the status bar to signal constant illumination of the screen at the value indicated in settings 37 BLMax				
Alternating ..... (Switch mode)						
F+8	36 BLMin Mini light	Displays a light bulb in the status bar to signal constant illumination of the screen at the value indicated in settings 36 BLMin				
F+9	37 BLMax Max light	Removes the bulb display which indicated constant illumination of the screen and returns to the basic settings with time delay as at the origin of parameters 36 and 37				
F+ H/B arrow	54 SQUELCH	Mounted	Go down			
F1 button	2 POWER	High	Mid	Low	or key 6	To be programmed Menu 22
F1 button Long	9 Wide/Narrow	Narrow	Wide			To be programmed Menu 23
F2 button	Monitor					A Program menu 24
F2 button Long	12 Fashion	A.M.	FM	USB		A Program menu 25
Key 5 Long	LISTS	In MEM mode Assign/Remove or Change a list channel				
Key 5 Long	LISTS	In VFO mode Activation of ScanRange mode				EXIT LONG to exit
F+5	Activating BandScope SPECTRUM Help Page Tab 6					
Button *Scan	LISTS	During a *Scan: Changes the list of channels you want to listen to				
M key Long	LISTS	In *Scann mode : Temporarily exclude a memory from Scann (not definitive) e.g.: a channel with permanent QRM				
M key Long	26M Long	In VFO mode Ex: Choice of Mode function => Switch the preferred VFO type such as DWR, Main Ongly (1 VFO on screen), XB,... A Program menu 26				
F+F1+ F + F2 -	1 Step Dynamically change the Step (in VFO mode),					

All the functions indicated on the keys of your keyboard are also accessible by pressing LONG (without using F)

Description of UV-K5-firmware menus in alphabetical order

The menu is accessible with the M button (short press).

Once in the main menu, the menu items will be displayed on the left side of the screen. The currently selected menu item will be highlighted and the current value of that menu item will be displayed to the right. Additionally, at the bottom left, a number of the menu item will be displayed, ranging from 01 to the highest number.

To find the menu item to access, the UP/DOWN arrow keys can be used, or menu item number (see lists in the main tab of this tutorial) can be entered on the numeric keypad. For example, to access the Squelch settings , enter the number 54 on the keypad.

Once the desired menu item is highlighted, press the M key. Once the menu item is , the TX will enter this menu item.

selected, pressing the UP/DOWN arrow keys will adjust the setting for that menu item. To confirm the selection, press the Menu key. To cancel the selection, press the Exit key.

The number in front of the menu item description is the menu item number. It can be used for quick selection

The list IN ALPHABETICAL ORDER below explains QUICKLY the function of the chosen menu. It may be valid for K5 EGZUMER flashed F4HWN !
I'm just adding new menus following ARMEL updates! However, I do not delete any of them, to have a trace of the old menus

1 Call - allows you to quickly switch to the chosen channel with the 9 Call button ex: M008

350 En - allows RX on 350MHz (Enable = Authorize / Disable = PROHIBIT)

All-Mod - Alarm mode SITE: local alarm TONE: remote + local alarm

ANI-ID - DTMF radio communication identification

BatCa l - battery calibration , measure the voltage on the back of the radio and adjust the value in the menu accordingly

BatSav - battery saving option, a rate between active time and sleeping time

BatTxt - additional battery value on status bar in % or volts

BatTyp - battery type, 1600mAh and 2200mAh battery have very different discharge curve, it is used to calculate battery level percentage

BatVol – battery voltage and percentage

Beep - keyboard press beep sound

BLMax - maximum backlight brightness, when the screen backlight turns on, it becomes bright at this value

BLMin - minimum backlight brightness, when the screen backlight turns OFF, it will decrease to this value

BLTime (ex:BackLt) - Set the backlight duration

BLTxRx (ex:BltTRX) - activation of backlight on TX or RX

BusyCL - busy channel lock, blocks radio transmission when a signal is received, including QRM !!

ChDele - delete memory channel

ChDisp - channel display style

ChName- change the name of the memory channel

Use the up/down keys to select a channel to edit
Press Menu button again to enter name editing mode
Use up/down keys or numbers (0~9) to scroll through letters, etc.
Press the Menu button to move to the next character position
Repeat the above two steps until you reach the end
When "Safe?" is displayed, press Menu to save
Press Exit at any time to cancel editing and return to the main menu.

ChSave - save the current setting in VFO mode to a memory channel

Compnd - Compander (compressor/expander), allows signals with a large dynamic range to be transmitted on installations that have a smaller dynamic range capability, Improves audio quality, both radios should use this option

D Decd - allows DTMF decoder

D Hold - DTMF Auto Reset Time

D List – DTMF contact list

D Live displays DTMF codes received by radio in the middle of the screen

D Prel - DTMF precharge time

D Resp - DTMF Decode Response
- DO NOTHING: do nothing
- RING - Local ringtone
- ANSWER – response
- BOTH - local ring + answer answer

Demodu - demodulator mode, default FM, AM , USB can be used for listening only

DST - DTMF side tone switch, allows you to hear tones transmitted in the radio speaker

DTMF - 1) Press *Scan , enter the code on the bottom line of the screen in VFO, PTT mode to send
2) Press PTT , enter the code on the bottom line of the screen in VFO, PTT mode to send

DWCod – decodes DTMF sent at the end of a transmission

F1Long - side button 1 menu button Long press Configurable

F1Shrt - side button 1 menu button Short press Configurable

F2Long - side button 2 menu button Long Press Configurable

F2Shrt - side button 2 menu button Short press Configurable

FLock - sets the TX frequency band plan.
- DEFAULT+ (137-174, 400-470) - allows TX on default bands, (plus options Tx 200, Tx 350, Tx 500)
- FCC HAM (144-148, 420-450)
- THIS HAM (144-146, 430-440)
- GB HAM (144-148, 430-440)
- (137-174, 400-430)
- (137-174, 400-438)
- PMR 446
- DISABLE ALL - disables TX on all frequencies

=>UNLOCK ALL - enables TX mode on all bands (it has an extra lock, read a wiki on how to enable this

How to unblock TX on all bands: Message: TX DISABLE

1)-----To activate the hidden menu / Turn off the TX / Press PTT+Button F1 then Turn on the TX / M to go to the hidden menu / menu 64
1) Enter the F-Lock menu with the M key 2) Choose the UNLOCK ALL option
3) Validate with the M key

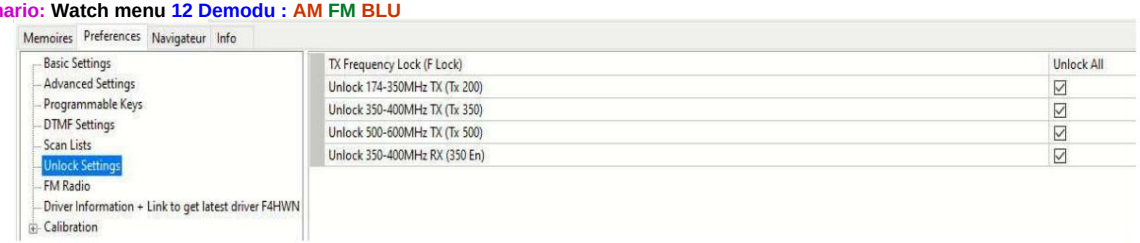
Repeat steps 2 and 3 ==> 3 times in total (since version 1.8 of Armel)

EXIT key to validate

Do it carefully, if you confirm another option in the process counter it will be reset to zero and you will have to repeat 3 more times.

2) -----Catastrophe scenario: Watch menu 12 Demodu : AM FM BLU

3) –---Under CHIRP



KeyLck – automatic keyboard lock option

M Long – On Front menu button Long Press Configurable

Hidden menu - To activate the hidden menu / Turn off the TX / Press PTT+F1 button / Turn on the TX / Go to the hidden menu

Mic – adjustable microphone sensitivity

MicBar - microphone bar that appears when transmitting

Monitor - The monitor function is a feature of walkie talkies. It temporarily disables the squelch function so users can manually listen to weak and distant signals. When you turn off the squelch function, you can hear every transmission.

NARROW – Narrow – 12.5kHz (W/N)

PonMsg – (PowerOnMessage) Display when switching on the TX Configurable

PTT - Classsic: press and release normal for emmeter / OnePusch: press PTT to speak and release the button, the transmission remains active, when it ends, press PTT to exit the QSO

PTT ID - defines whether UPCode and/or DWCode should be transmitted

Reset - resets radio configuration settings
- **VFO - only removes channel settings**
- **ALL - resets all radio settings**

Roger Beep – Emits a sound at the end of the transmission

RP STE - squelch repeater tail eliminator

RxCTCS - Receiver Continuous Tone-Coded Squelch System, the squelch will only unlock if this code is received. The other stations must also be programmed in the same way

You can start a DCS/CTCSS scan while in this menu option by pressing the *SCAN (S) button

RxDCS - Digital-Coded Squelch Receiver, if you enable this the squelch will only unlock if this code is received. The other stations must also be programmed in the same way.

You can start a DCS/CTCSS scan while in this menu option by pressing the *SCAN (S) button

RxMode – sets how the upper and lower frequency is used
- **MAIN ONLY - (MO) always transmits and listens on the main frequency**
- **DUAL RX RESPOND – (DWR) - listens to both frequencies, if the signal is received on the secondary frequency it locks for a few seconds so you can answer the call**
- **CROSS BAND – (XB) always transmits on the primary and listens on the secondary frequency**
- **MAIN TX DUAL RX – (DW) always transmits on primary, listens to both**

ScAdd1 - add a channel to the Scann 1 list

ScAdd2 - add a channel to the Scann 2 list

ScnRev - analysis resume mode
- **TIMEOUT - resume analysis after 5 seconds pause**
- **CARRIER - resume scanning after signal disappears**
- **STOP - after receiving a signal, the scan stops**

ScraEn - activates the jammer function BANNED IN FRANCE

Scramb – jammer, distorts audio so that it would be harder for other listeners to understand, all radios use the same setting BANNED IN FRANCE

SetCtr - allows you to adjust the contrast (1 to 15),

SetEot - allows you to configure the EOT (End Of Transmission) alert (Off, Sound, Visual, All),

SetGui - allows you to use a smaller font for the baseline (Classic or Tiny),

SetInv - Set Inv - switches the screen to reverse background mode (reverse video)

SetLck - allows you to configure the lock (Keys or Keys + PTT),

SetLow - allows you to set the Low power (20mW, 125mW, 250mW, 500mW or 1W),

SetMet – allows you to configure the style of the S-meter (Classic or Tiny),

SetPtt - allows you to modify PTT management (Classic CL or OnePush OP mode),

SetTot - allows you to configure the TOT alert (Off, Sound, Visual, All),

SList - selects the channel used by the memory channel scanner

Slist1 - channels assigned to Scann list 1

Slist2 - channels assigned to Scann List 2

Sql silencer sensitivity level (default 1 min)

In both VFO modes, F buttons and Up+Down arrows - change this value (since v2.2)

STE- eliminates noise at the end of a transmission (Roger Discreet Beep)

DESCRIPTION of functions

Step - Distance between 2 frequencies (in kHz), You can also only define a frequency that is a multiple of half this value. Allows you to have the values xxx,….25 or xxx,….75
in VFO mode, buttons F / F1 + / F2 - change frequency by this value, (since V2.2)

Sys Inf – Displays battery voltage, percentage, and firmware version

Tx 200 - activates TX on 200MHz

Tx 350 - activates TX on 350MHz

Tx 500 - activates TX on 500MHz

TxCTCS – Continuous Tone Squelch System transmitter, the radio will send a given code when transmitting, the other stations must also be programmed in the same way

TxDCS - Digital-Coded Squelch transmitter, the radio will send the given code while transmitting, other stations must also be programmed the same way

TxODirdirection – Direction of transmitter frequency offset + or -

TxOffs – transmitter frequency offset value

TxPwr – radio output power (LOW/MID/HIGH)

TxTOut - maximum TOT transmission time limit

UPCode DTMF sent at start of transmission

VOX - voice activation sensitivity level TX VOX Setting

Wide - bandwidth used by the transceiver Wide – 25kHz (W/N)

CALIBRATION: Backup of calibration and system configuration files FACTORY: VERY IMPORTANT

Perform this operation BEFORE flashing firmware

This involves saving the station's factory files

In the event of a crash, we reinject the **original calibration and configuration files**

The F5SVP video: https://www.youtube.com/watch?v=NRT_eI0kaZw&t=142s

Installation tutorial link: https://f5svp.fr/k5prog-win/ K5PROG

file download link: https://github.com/OneOfEleven/k5prog-win/blob/main/k5prog_win.exe

The 3 points

1

Plug the USB plug into the PC and look for the Com Port (Device Manager) I Launch the K5prog-Win v0.1.26 application

Turn on the TX and plug the Kenwood plug into the TX On the app, set the Com Port

Click on Read Configuration and save the my_config.bin file

Click on Read Calibration and save the my calibration.bin file

For restoration, find your files and

Click on Write Configuration

Click on Write Calibration

INSTALLATION OF FIRMWARE (After ORIGINAL calibration)

To install a firmware.bin, download the .bin file **that suits you best** from the **GitHub of the developer of your choice** (firmware.packed.bin)

Example: F4HWN firmware: https://github.com/armel/uv-k5-firmware-custom/raw/main/archive/f4hwn.packed.v2.8.bin

The links are always under their videos, in the comments

You will also find the link which will allow you to launch the UVTOOLS application **to flash via this usual online flasher :**

Executable only under EDGE, OPERA or CHROME https://egzumer.github.io/uvtools/

Plug the USB cable into the PC, Check its COM PORT in Device Manager

Press the PTT button and turn on the TX, the light should be on

Place the Kenwood plug in the TX ,

BROWSE button **of the application, look for the .bin** file **of the firmware that you have already downloaded and that you want to install USB button of the application / Indicate the USB Port / Click Flash Firmware**

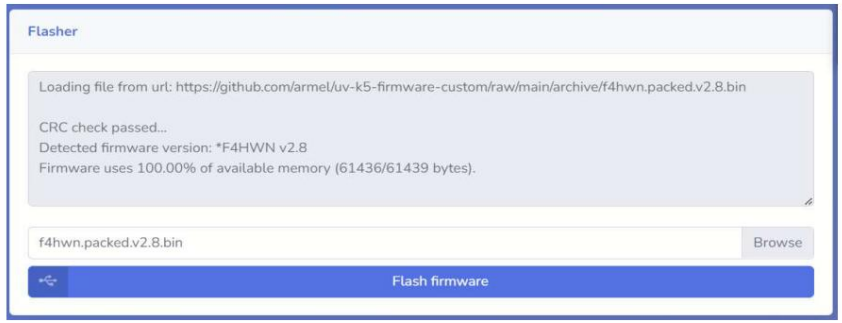
For the rest, all you have to do is watch the F5SVP video

https://www.youtube.com/watch?v=YNGlvNrHTJM&t=116s

2

For Armel F4HWN v2.8 firmware, run the direct link below, (Executable under EDGE, OPERA or CHROME)

https://urlz.fr/qlj9



REMEMBER TO CHECK ALL YOUR PARAMETERS AT THE END OF INJECTING A NEW FIRMWARE

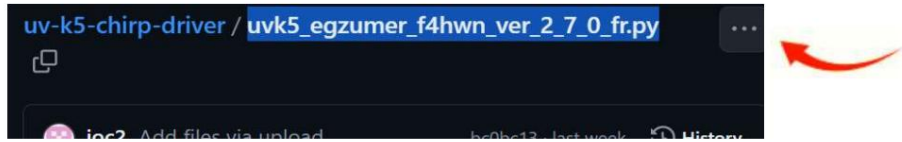
INSTALL THE CHIRP DRIVER DEDICATED TO FIRMWARE 2.7 https://www.youtube.com/watch?v=02T2ODufZOA

In addition to the presentation video of version v2.7, you will find on his GitHub space, a Chirp driver specially dedicated to the firmware he is developing!

This is the fruit of the work of Jocelyn VE2ZJM, whom I thank very much.
He did a wonderful job. You'll find it all on his GitHub

You will have previously downloaded it from : https://github.com/armel/uv-k5-chirp-driver/blob/main/uvk5_egzumer_f4hwn_ver_2_7_0_fr.py

Go down to the line to download the .py in French =====> uvk5_egzumer_f4hwn_ver_2_7_0_fr.py



Then

1 - Launch Chirp
2 - In the Help menu, select "Developer mode"
3 - Exit Chirp and restart Chirp
4 - Make sure Developer Mode is checked
5 - In the File menu, select "Module loading..."
6 - Select the uvk5_egzumer_f4hwn.py module where you saved it
7 - In the Radio menu, select "Download from radio..."
8 - Select the COM Port
9 - Select Quansheng
10 - And most IMPORTANT, select the right model: UV-K5 (egzumer + f4hwn)
The rest, you already master it! ! !
The Preference tab offers you a good part of the K5 menu

3 At the next session, start again from step 4 <===

The upper part of Chirp offers you a quick function setting specific to F4HWN, if you check the box in the first line.

Only these options will be sent to TX without saving any memory data or other modifications

Once the new frequencies or other parameters have been modified, save these new settings to the K5, normally
DO NOT CHECK THIS BOX

And of course, remember to save your work on your computer

GENERATE A LIST OF SCANN, MEMORIZED CHANNELS LIST 1 / LIST2

4

To Assign/Delete a channel or change it from the list,

Switch to the desired channel in Memory mode

Long press on key 5
Observe the display on the right of the channel
- 1 affects channel in list 1
- 1 2 affects the listed channel in both lists
- 2 affects the channel in list 2
- - (Nothing displayed) No list assignment in Scann (does not delete it from the station memory)

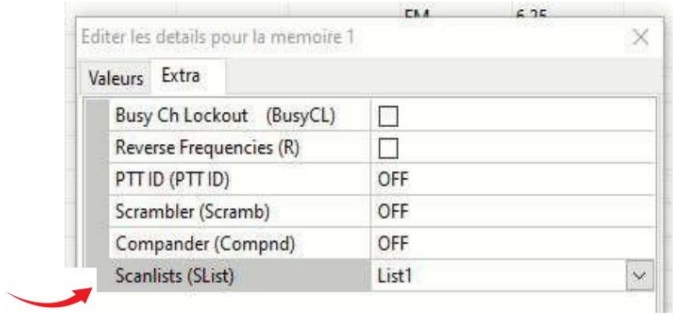
To change the channel list during a *Scan,

In VFO Mr mode, with each Long Press on the *Scan button,
you will see the icon on the right change
- 1 scans list 1
- 1 2 scans both lists
- 2 scans list 2
- [ ] nothing displayed scans all your channels in memory

To EXCLUDE a channel during a Memory scan (*Long Scan)
If you want to exclude this channel temporarily from the scan, LONG press M key

---

- - - - - - - - on Chirp - - - - -
Go to the line to list , Right click , Property , Extra , Scanlist , Make your choice of List
There's just
---------- OR ----------
" VIEW " tab
Check: See additional fields
In the " ScanLists " column , choose the list according to your frequencies



SCANNER BETWEEN 2 FREQUENCIES in VFO mode

5

You must switch to VFO at A and enter the High frequency
You must switch to VFO at B and enter the Low frequency

Long press on key 5 to display ScnRng
Start the scan with *Scan Long
Scan Stop, *Long Scan
The scan catches a QSO, QUICK PTT
Resume Scan, *Scan Long
Yes, it starts again at the start of the scan
https://www.youtube.com/watch?v=-Fr8Pz1BAMA&t=88s
Or
After entering your 2 frequencies in the VFO
Menu 53 RxMode / Main Only
Long press on key 5 to display ScnRng
The ScnRng will be displayed below
Start the scan with *Scan Long

SPECTRUM Menu

KEY F + 5

Button functions 1 / 7 -

increases/decreases the frequency step between consecutive bars 4 - changes the number of bars (channels) in the graph

---

2 / 8 - increases/decreases the size of the frequency step by which the graph scrolls with the UP/DOWN buttons 5 - shows a frequency entry box for a lower sweep frequency. (value in MHz, - decimal point)

---

3 / 9 - increases/decreases the maximum value in dB (vertical scale) 6 - toggles the receiver bandwidth

---

*** / F - increases/decreases the squelch level**
0 - toggles the modulation type (FM/AM/USB)

6

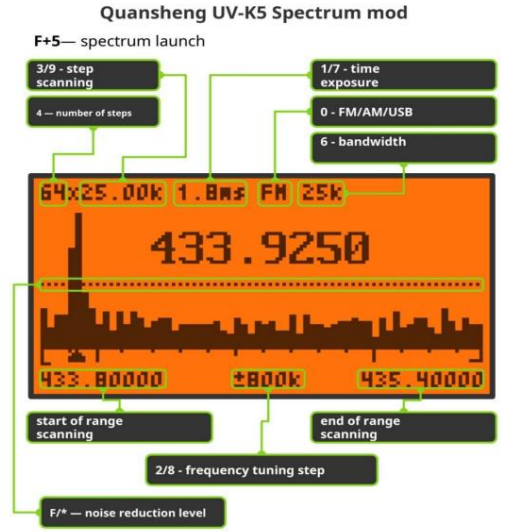
Side button I - excludes the current frequency from the spectrum scan
Side button II – toggles backlight

Long EXIT - returns to a previous screen/function
PTT - switches the screen to detailed monitoring of the last received frequency

Small PDF to help with the SPECTRUM function of Egzumer on the FaceBook UV-K5 France group https://urlz.fr/qMx9

https://fr.m.wikipedia.org/wiki/Fr%C3%A9quence_interm%C3%A9diaire

See also HELP page Tab 14



PTT— frequency capture (then there will be transmission).**EXIT**- exit
FN1- black list **FN2**- backlight

5— frequency input

Change memory channel name on TX

7

Use up/down keys to select a channel to edit Press Menu button again to enter name editing mode Use up/down keys or numbers (0~9) to scroll through letters, etc.
Press the Menu button to move to the next character position Repeat the two steps above until you reach the end When "Safe?" is displayed, press Menu to save Press Exit at any time to cancel editing and return to the main menu.

8

My Kenwood socket does not work in the TX, but the Com Port displays USB Serial CH340 or Prolific

Your Com Port indicates a cable type: Prolific SB-toSerial Comm Port (COMx) , instead of USB-SERIAL CH340 (COMx) , no more panic! !
Download and install this Driver 3.2.0.0 and everything will be fine.
No need to buy another cable (CH340)
The link: https://www.miklor.com/COM/UV_Drivers.php or download the Direct link: https://www.miklor.com/COM/software/P3200.exe

> **Prolific Driver 3.2.0.0 recommended for Vista, Win7/8/10/11>**
> **3.2.0.0 exe 3.2.0.0 zip (32/64 bit)**

It could also happen that it comes from the Kenwood socket which goes into the TX
No need to disassemble everything to remove this little piece of plastic that is out of place.
Step 1 : you push the plug HARD into the TX. Often, this is enough to pass the "resistance)
----- Otherwise -----

Step 2: 2 drill bits with plug diameters of 2 and 3 mm !

Remove the battery, gently insert the wick upside down until it stops at the bottom
You will feel resistance and you will push 1 to 2 mm! NO MORE !
And presto, it's back in place!!
It's magic, you must feel the resistance disappear

9

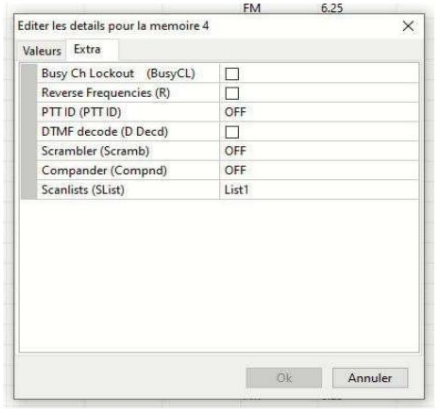
Use your Chirp files (other TX) to avoid retyping all the frequencies. Manipulation is very easy from one device to another by taking the precaution of saving the frequency database in .csv format

This file is then opened and easily processed in post format with Excel or Open Office.
You must then reload it in Chirp, still in **CSV format , then upload it to the station(s) you wish to equip.**

10

Some of my frequencies are stamped DTMF??
On Chip, you right-click on your frequency,
you click on Properties, then Extras, there are surely DTMF boxes checked that you will need to uncheck

Or, the Dlive function (menu 49) is ON. Toggle OFF



11

Integrate a .py module when launching Chirp

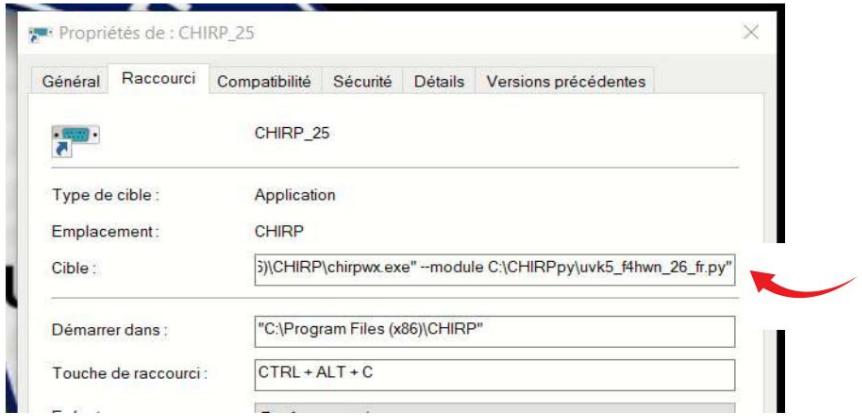
https://www.youtube.com/watch?v=zBtCzOHHro8

To integrate a module directly into Chirp, you will need to integrate the position of the .py file into a Chirp shortcut Create a Chirp shortcut

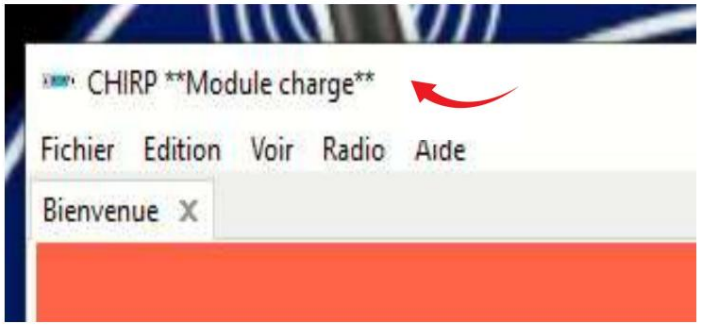
Right click on the Chirp shortcut, then Property Go to
“Shortcut” Tab
In the “Target” item you will find the address of where CHIRP is located “C:\Program Files
(x86)\CHIRP\chirpwx.exe”
Place your .py file at the root of C:, in a folder (ex:) CHIRPpy that you will have created previously. Following this “TARGET”
address, “C:\Program Files
(x86)\CHIRP\chirpwx.exe " (add 1 space, then) --module then the location of the .py: c:\CHIRPpy\uvk5_f4hwn_26_fr.py“
(if necessary, rename the .py file shorter)
VERY IMPORTANT, do not forget the ending quote”

Full address (Example FOR MY PC)

"C:\Program Files (x86)\CHIRP\chirpwx.exe" --module C:\CHIRPpy\uvk5_f4hwn_26_fr.py"



When launching Chirp , make sure that the following message is indicated!



The FULL PDF

https://www.dropbox.com/scl/fi/6vhuxq7aanqd2esp8g8fj/Comment.installer.un.module_.py_-dans-chirp.pdf?rlkey=frpl805d31aqtjkgdmz98r03z&dl=0

12

Block one or more frequencies when transmitting

On your TX

menu 07 TxODir, enter the sign - , (minus)

menu 08 TxOffs, enter the same reception frequency

Save to the chosen channel . Voila, no more broadcasts on this channel

---

In chirp in the DUPLEX frequency column, you validate OFF for the RX channels only.

Menu 64 F-Lock (Armel) Choose PMR, and you will only be able to transmit on PMR frequencies

Everything else is LISTENING

13

HOW TO DO a PROPERLY FACTORY RESET with QUANSHENG or OSFW Firmware on a UV-K5

Download and unzip the attached K5FirstAid file: https://urlz.fr/qliM 1)

Press PTT + F1 + Turn on the station

Message: SERVICE ENABLE

RELEASE KEY

2) Press the M key , then find the RESET Menu (Usually the last one in the Menu)

3) Then choose ALL using the arrows, then press M

4) At the message SURE ?, confirm by pressing M

At the WAIT message , wait a little and prepare your cable

On your PC

Use K5PROG to inject your calibration and configuration backup

If you do not or no longer have YOUR OWN FILES, try the files in the K5FirstAid/calibrations and configurations folder At your own risk

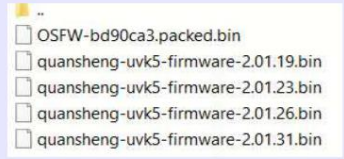
Set your Com Port, then

WRITE CALIBRATION (K5FirstAid/calibrations)

WRITE CONFIGURATION (K5FirstAid/configurations)

Then inject an ORIGINAL version of Quansheng Firmware (K5FirstAid/firmwares) with WRITE FIRMWARE

Where OSFW-bd90ca3 version for K5 (99) (K5FirstAid/firmwares) with WRITE FIRMWARE

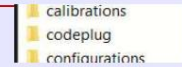


Once this operation is completed, REPEAT OPERATIONS 1 , 2 , 3 , 4 .

Turn the TX off and on again! This one has been completely reset (almost)

All that remains is to inject, using Chirp Standard, the original data as you had it upon receipt of your TX

Open CHIRP STANDARD, then look in the K5FirstAid/codeplug folder, the .IMG file, Quansheng_Standard



Once opened and INJECTED into the TX, it will find the FACTORY frequencies and settings, as on receipt

---

Attached is the video of the German author of this tutorial Arthur Konze DL2ART: https://urlz.fr/qliq

SPECTRUM KEYBOARD

==> PDF link: https://urlr.me/5v8C7

Touches de fonction pour le micrologiciel F4HWN v2.7
Quansheng UV K5

par Stefano IK5WWG
20 mai 2024
https://www.instagram.com/sevenbrains11/

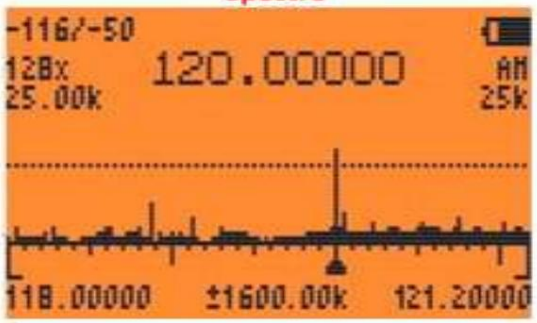
https://www.qrz.com/db/IK5WWG

14

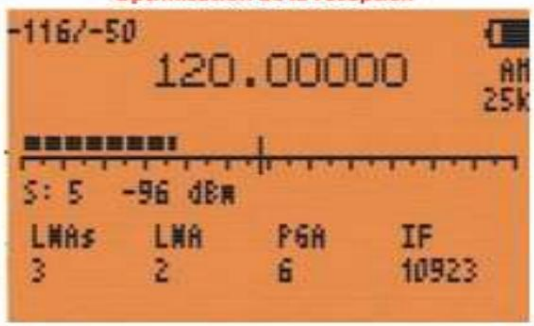
Combinaisons spéciales →	(PTT + touche latérale 1) Mode de téléchargement du firmware avec câble Menu des services			+ Mise sous tension
Menu Service Ensemble personnel	*PTT + touche latérale 2 = 1750 tonalités*	*Menu Service Ensemble personnel*	*Menu Service Ensemble personnel*	
Changer de mode (FM/AM/USB)	PTT	Lumière allumée/éteinte	Mode de commutation (FM/AM/USB)	long
Menu ou OK (Entrée)	PTT/Arrêter le scan	Moniteur	aucun	court
M	**PTT**	**Clé latérale 1**	**Clé latérale 2**	clés
En mode Optimisation de la réception, sélectionnez les quatre paramètres du récepteur dans séquence (flèches pour changer)	Changement Optimisation du spectre/enregistrement	Met la fréquence sur liste noire	Lumière allumée/éteinte	Court en Spectre Mode

-	En haut
-	Vers le bas
SORTIE	Sortie Arrêter et revenir (Scan) Annuler la dernière entrée

Spectre



Optimisation de la réception



-	-	-	Analyse CTCSS/DCS	F+
Changer de bande	Changer VFO A/B	Changer VFO/MR	Démarrer l'analyse (ListMem/VFO) Menu18 pour la liste	long
1	2	3	Émission DTMF	court
1 (groupe)	**2 (A/B)**	**3 (VFO/MR)**	*** Analyse**	clés
Modifier la séparation des canaux + (0,01k à 100k)	Pas de changement de fréquence + (100 000 à 2 000 000)	Modification du rapport du signal graphique +	Squelch + (ligne)	Court en Spectre Mode

-	Spectre ON/OFF	-	-	F+
Fréquence et balayage CTC	Plage de balayage VFO A/B ON/OFF	Sel Puissance H/M/L	Diffusion radio FM ON/OFF	long
4	5	6	0	court
4 (FC)	**5 (NOAA)**	**6 (H/M/L)**	**0 (FM)**	clés
Modifier le nombre de canaux analysés (16x/32x/64x/128x)	Insertion d'une fréquence de balayage inférieure (pour l'utilisation du point Mhz) *) M pour confirmation	Changer la bande passante (6,25k/12,5k/25k)	Mode de commutation (FM/AM/USB)	Court en Spectre Mode

-	Lumière d'affichage toujours allumée/éteinte	-	-	F+
Vox activé/désactivé	Commutation inversée (Mem/Duplex)	Rappeler la chaîne rapide	Clé de verrouillage ON/OFF	long
7	8	9	Fonction + autre touche	court
7(voix)	**8®**	**9 (Appel)**	**F (#)**	clés
Changer la séparation des canaux - (0,01k à 100k)	Pas de changement de fréquence - (100 000 à 2 000 000)	Modification du rapport du signal graphique -	Squelch – (ligne)	Court en Spectre Mode

List of videos in French generated by F5SVP, 14UVR010 and F4HWN on the theme of K5

1 24 Apr 23	Small presentation of the UV K5 ORIGINAL F5SVP station https://www.youtube.com/watch?v=hNrDr7Usxe4&t=477s
2 28 Apr 23	UV K5 programming via PC with CPS F5SVP https://www.youtube.com/watch?v=_0QYziD73RM&t=78s
3 May 6, 23	UV K5 ORIGINAL F5SVP Firmware Update https://www.youtube.com/watch?v=mbObEqzzlw4&t=26s
4 May 9, 23	Clone a frequency on UV-K5 ORIGINAL https://youtu.be/1njbS6DMQRY 14UVR010
5 9 May 23	Entering Frequencies Manually on UV-K5 ORIGINAL 14UVR010 https://youtu.be/5yJPON76-Lk
6 10 May 23	SCAN function with an ORIGINAL UV-K5 https://youtu.be/XIXPsQu2ljo 14UVR010
7 May 11, 23	Use the ORIGINAL Commercial FM Radio https://youtu.be/fcwbYJH7XiE 14UVR010
8 May 18, 23	UVK5 and creation of an ORIGINAL F5SVP "scanlist" https://www.youtube.com/watch?v=dcuEd4xlu2I&t=193s
9 June 14, 23	UV K5 unlocking from 18 to 1300Mhz! F5SVP https://www.youtube.com/watch?v=7cq0k85HDnQ&t=208s
10 Jul 7, 23	UV K5 and addition S Meter F5SVP https://www.youtube.com/watch?v=ujE-swPz5sU
11 Jul 29, 23	BT box TidRadio TD-BL-1 Version2 and OdMaster (UV-5R and UV-K5 and K6) F5SVP https://www.youtube.com/watch?v=umhgSNCD72g&t=635s The video is made on a Baofeng, but works the same on K5
12 11 August 23	How to simply modify the Firmware of your UV K5 with UVMOD F5SVP https://www.youtube.com/watch?v=_gZA3XQQBiE&t=70s
13 16 August 23	UV-K5 and ORIGINAL Negative Screen F5SVP https://www.youtube.com/watch?v=GPmU3V9Ua4k&t=35s
14 Sep 8, 23	UV K5 and am fm ssb scanner function ORIGINAL F5SVP https://www.youtube.com/watch?v=sol0AHrlvxo&t=55s
15 Feb 8 24	QUANSHENG UV-K5 - CLONE https:// www.youtube.com/watch?v=xvJIn3sU2es , RADIO to RADIO , (Air COPY) ORIGINAL in English (Cloner 2 K5 ORIGINALS in AIR COPY)
Sep 23	UV-K5 and SSB reception. Short 16 18 F5SVP https://www.youtube.com/shorts/MaNN3l5Hx18
17 21 Oct 23	CHIRP Programming for Beginners Part 1 F5SVP https://www.youtube.com/watch?v=6dFcmSFh2fM&t=416s
18 23 Oct 23	Chirp for beginners part 2 https://youtu.be/4-86iL43kck F5SVP

19 Dec 13 23	UV K5 and Firmware Egzumer V020 1 The method is valid for any .bin https://www.youtube.com/watch?v=YNGlvNrHTJM&t=116s	F5SVP
20 Dec 16 23	Programming PMR channels with a UV-K5 and Chirp in 5 minutes F5SVP https://www.youtube.com/watch?v=tZnsWRK4BIU&t=44s	
21 Dec 16 23	UV-K5 CHIRP IN 5 MINUTES F5SVP https://youtu.be/tZnsWRK4BIU?list=PL9nZHbSwSJT21WsAZqhGD5ntg8ZJE__sx	
22 Dec 21 23	Egzumer V0.20.1 and scope function https:// www.youtube.com/watch?v=eoQLM4JzyDo	F5SVP
23 Dec 28 23	Backing up UV-K5 F5SVP configuration files https://www.youtube.com/watch?v=NRT_el0kaZw	
24 January 11, 24	UV K5 and SSTV https://www.youtube.com/watch?v=UUzhWl2lSMg	F5SVP
24	Control your UV K5 from your PC! 25 Jan 13, https://www.youtube.com/watch?v=CKIuCcpFbN4&t=15s	F5SVP
	Multifunction programming cable 26 Jan 17 24 https://youtu.be/hZN_BvDF01M	F5SVP
Jan 24	UVK5 Scan between 2 frequencies 27 29 https://youtu.be/-Fr8Pz1BAMA	14UVR010
28 February 2 24	Programming Amateur radio relays with chirp https:// www.youtube.com/watch?v=LiqNXODJ-3M	F5SVP
29 Feb 12 24	Implementation of Chirp with a dedicated driver https:// www.youtube.com/watch?v=02T2ODufZOA	F4HWN
30 Feb 19 24	New modified EGZUMER firmware v1.9b https:// www.youtube.com/watch?v=z6A7Yi8_HzM The PDF: 14UVR010 https://www.dropbox.com/scl/fi/trqvgbcffpddryg5yd6j8/Egzumer-V22-feat-F4HWN-v1.9b.pdf?rlkey=3ve78qzrovp58px2wiwit0wzo&e=1&dl=0	F4HWN
31 Feb 24 24	K5 Firmware – The egg or the chicken? https://www.youtube.com/watch?v=ib6dZmreGPM	F4HWN
32 29 Feb 24	New modified EGZUMER firmware v2.0 https:// www.youtube.com/watch?v=LQ9iSUgKnhs Bug Fixes	F4HWN
01March 24	New modified EGZUMER firmware v2.1 https:// www.youtube.com/watch?v=EGuamlKUmZM	F4HWN
04 March 24	New modified EGZUMER firmware v2.2 https:// www.youtube.com/watch?v=q6lP1T9MSHo The PDF: 14UVR010 https://www.dropbox.com/scl/fi/h4pimfr9033ee6st8nttp/Egzumer-V22-feat-F4HWN-v20.pdf?rlkey=vbjhjfmrltlhwtgsps79an5ie&dl=0	F4HWN
33 March 9, 24	PMR446 for DUMMIES https:// www.youtube.com/watch?v=KlDgXliZ0KE	F4HWN

14, 24	New firmware F4HWN v2.3 34 March F4HWN https://www.youtube.com/watch?v=988XOA5jkCw
35 March 28, 24	New firmware F4HWN v2.4 https:// F4HWN www.youtube.com/watch?v=nrFTiYsktNw The PDF: 14UVR010 https://www.dropbox.com/scl/fi/sy9ypycbvqty5lf1q32f0/Menu-ARMEL-F4HWN-v24.pdf?rlkey=266uxcgz4ge61kazshccpm2qr&dl=0
36 Apr 7, 24	Chirp and python file or how to integrate a .py module when launching Chirp https://www.youtube.com/ F5SVP watch?v=zBtCzOHHro8 The PDF: 14UVR010 https://www.dropbox.com/scl/fi/6vhuxq7aanqd2esp8g8fj/Comment.installer.un.module_.py_-dans-chirp.pdf?rlkey=frpl805d31aqtjkgdmz98r03z&dl=0
37 Apr 12, 24	New firmware F4HWN v2.5 https:// F4HWN www.youtube.com/watch?v=Ig0rKl0KyXk The PDF: 14UVR010 https://www.dropbox.com/scl/fi/xf4daygicbfr0m6igv8ax/MENU-Armel-F4HWN-2.5.pdf?rlkey=xsnqpq31ahp3afs9lmd8rh3yc&dl=0
38 Apr 23, 24	New firmware F4HWN v2.6 https:// F4HWN www.youtube.com/watch?v=cMx8dpXF5Tg The PDF: 14UVR010 https://www.dropbox.com/scl/fi/9p2594isc6usoskgdxcu6/MENU-Armel-F4HWN-2.6.pdf?rlkey=7hmw8vp2u3x5o3ee9zrlkq8x4&dl=0
39 Apr 28, 24	Some explanations around the calibration EEPROM... F4HWN https://www.youtube.com/watch?v=EiwuVOVxNbk&t=27s
40 May 5, 24	New firmware F4HWN v2.7 https:// F4HWN www.youtube.com/watch?v=ZkzDcUNP3jg&t=3s The PDF: 14UVR010 https://www.dropbox.com/scl/fi/um2oaupg7c7zx8ug9fpdd/MENU-Armel-F4HWN-2.7.pdf?rlkey=7294nxdpwgpovuz1l53jxd79h&e=2&dl=0
41 May 8, 24	Question / Answer: Temporary setting and persistent setting F4HWN https://www.youtube.com/watch?v=WgTYDxV7Ekk
42 May 9, 24	UV-K5(99) and Installation of Armel Firmware 2.7 to resolve the OSFW Firmware problem https://www.youtube.com/ F5SVP watch?v=1oHY3a2Wy60
43 May 16, 24	Quansheng UV-K5? FACTORY RESET DL2ART https://www.youtube.com/watch?v=n2E9o5RrHs8
44 May 19, 24	Chasing the mysterious firmware pre-installed on the UV-K5 (99) -OSFW-bd90ca3 F4HWN https://www.youtube.com/watch?v=mhgHB2H6n34
45 June 13, 24	New firmware F4HWN v2.8 https:// F4HWN www.youtube.com/watch?v=yLuuOgtoluk The PDF: 14UVR010
46	
47	

Excerpts from F4HWN Comments from Version 2.0 to 2.8

V2.0 https://www.youtube.com/watch?v=LQ9iSUgKnhs
V2.1 https://www.youtube.com/watch?v=EGuamIKUmZM
V2.2 https://www.youtube.com/watch?v=q6lP1T9MSHo
V2.3 https://www.youtube.com/watch?v=988XOA5jkCw&t=237s
V2.4 https://www.youtube.com/watch?v=nrFTiYsktNw
V2.5 https://www.youtube.com/watch?v=Ig0rKl0KyXk
V2.6 https://www.youtube.com/watch?v=cMx8dpXF5Tg
V2.7 https://www.youtube.com/watch?v=ZkzDcUNP3jg&t=10s
V2.8 https://www.youtube.com/watch?v=yLuuOgtoluk

In addition, you will find on its GitHub space, a Chirp driver specially dedicated to the firmware that it develops.
This is the fruit of the work of Jocelyn VE2ZJM, whom I thank very much. He does a wonderful job.
You will find all this at https://github.com/armel/uv-k5-firmware-custom ……..
Obviously, it declines all responsibility concerning the use of these modified EGZUMER firmware. In particular, it cannot be held responsible for any damage of a material or immaterial nature caused by its use.

Excerpt, from Armel F4HWN's comments, UNDER his videos

----------V2.0 Feb 29, 2024

- Redesign of the status bar, -
Addition of a larger flashing padlock for more visibility, (Long F key) keylock
- Added an F in reverse video for more visibility, when using the Function key
- Added a symbol in the menu bar to signify the Scanning of the 2 OO Memory lists - Fixed a bug concerning , or I or II
the ScanRange functionality and scan limits,
- Added a sound alert at startup (see menu 33/63 PonMsg with addition of Sound and All options),
- Added Step display (if no CTCSS or DCS), Added CTCSS or DCS display when PTT is pressed
- Added AM, USB and FM modulation type (if receiving),
- Deactivation of the 1750Hz shortcut if you are in “Keys + PTT” lock mode,
- Fix cleaner screen ignition.

----------V2.1 March 1, 2024

- Removal of the flashing padlock (causing problems in CROSS BAND and MAIN ONLY mode),
- Added an “ UNLOCK KEYBOARD ” message indicating to unlock the keyboard for more visibility,
- Added modulation type, CTCSSS or DCS code and step in MAIN ONLY mode.

----------V2.2 March 4, 2024

- Fixed a display bug in MAIN ONLY mode when entering DTMF code,
- Added key combinations F+F1 and F+F2 to dynamically change the Step (in VFO mode),
- Improved OnePush operation in the event of TOT,
- Activation of the ENABLE_BLMIN_TMP_OFF option .

----------V2.3 March 14, 2024

- correction of a display problem with ScanRange,
- fixed a problem with Squelch,
- deactivation of the ENABLE_BLMIN_TMP_OFF option,
- added the F+8 combination to quickly switch the backlight between BLMin and BLMax (Switch) on demand (bypasses the BackLt strategy),
- addition of the F+9 combination to return to the BackLt strategy.
Long presses on keys 8 and 9 work as before.

----------V2.4 March 28, 2024

Simplification of the FLASH LIGHT action. The idea is to only keep the possibility of turning the LED on or off (No more flashing) - refactoring of the code to optimize memory usage, - removal of the blink and SOS functionality , of no real interest,
- correction of 'a display problem at startup (if PonMsg was initialized to NONE
or SOUND), - attempt to correct the STE management, - modification of the BatVol menu (52/63) which becomes SysInf
and which allows you to display , in addition to the battery status,
the firmware version, - addition of the long press on MENU, in *SCAN mode , to temporarily exclude a memory channel (does not work if * SCAN ALL).

---------- V2.5 April 12, 2024

Numerous memory optimizations,
- Removal of the crossed zero in fonts for better visibility,
- Fixed a bug when outputting the FAGCI tapescope,
- Fixed a bug : if RxMode (53/63) is MAIN ONLY, PonMsg (33/63) is ALL and a signal is received at startup,
- Added a new F_LOCK option dedicated to the PMR 446 band,
- Improved BackLt (35/63) OFF, 00m:05s to 05m:00s in steps of 5 seconds or ON,
- Improvement of TxTOut (28/63) 00m:30s to 15m:00s in steps of 5 seconds,

---------- V2.6 23April24 -

refactoring of the code to optimize memory usage, - correction of a bug
concerning the copying of the frequency of a memory channel to the VFO and the change of bands (issue #49 https://github.com/armel/uv-k5-firmwa..., -
correction of a bug concerning the emission of
a 1750Hz, if the squelch is open (issue #51 https://github.com/armel/uv-k5-firmwa..., - the menu index remains visible, even if a menu is selected, - moving the
BatTxt menu from 34/63 to 30/63 (under the BatSave 29/63 menu), - renaming
of the BackLt menu to BLTime, - renaming of the BltTRX menu to BLTxRx, - refactoring of the status
bar and moving of the USB icon, - addition of a Tx
and Rx timer

---------- V2.7 May 5, 2024 -

some memory optimizations, - correction of a
display bug concerning the scan and the RX timer (problem #57), - correction a bug concerning
dual watch and TX DISABLE on one of the VFOs in the event of transmission (problem #69, thank you Pascal), - correction of a bug concerning key locking and the hidden
menu (problem # 71), - fixed a bug concerning F+1 which was not persistent after restart (problem #75, thanks
Pascal), - fixed a bug concerning the TOT alert and the backlight (problem #76, thank you Romain), - improvement of the hidden menu and
positioning on the F Lock 64/71 menu, - improvement of the label of lists I and II, - improvement of the OnePush
function (thanks Jean-Roger F6EGK).

---------- V2.8 June 13, 2024 -

some memory optimizations, - correction of a
double bug with the TX / RX timer (issue #23 https://github.com /armel/uv-k5-firmwa..., - renaming of the TxPwr menu
(02/63) to Power, - renaming of the Demodu menu (12/63)
to Mode, - renaming of certain actions: - SWITCH VFO to
VFO A VFO B - VFO/MR to VFO MEM -
SWITCH DEMODU to MODE - SWITCH
RXMODE to RX MODE -
SWITCH PTT to PTT - SWITCH WIDE
NARROW to WIDE NARROW

- removal of FM in the status bar in Broadcast FM mode (totally useless), - modification of the PWM
frequency to 25 kHz (PR #114 https://github.com/armel/uv-k5-firmwa...) - improve the RX MODE action, - addition of
the MAIN ONLY action, - addition of a
screenshot function (not activated
by default, to activate in the Makefile if necessary).

CTCSS Menu

RXCTCSS (Reception) TXCTCSS (Transmission)

In radiocommunication, the CTCSS device, short for Continuous Tone **Code Squelch System , is a selective reception system used on certain transceivers to reduce interference by other users sharing a same** radio **frequency .**
It should not be confused with selective calling systems.

Functioning

On transmission, the transmitter simultaneously transmits the useful voice signal and an inaudible tone chosen in a frequency band between 67 and 254 Hz. On reception, only receivers programmed to react to the tone chosen on transmission unblock their speaker, the others remain silent. When several networks share the same radio frequency, this avoids interference by communications not using CTCSS or using tones of different frequencies.

Technical specifications

The principle of CTCSS is the sending of an inaudible tone throughout the transmission and the detection of this tone upon reception.
There are around fifty CTCSS frequencies available.

Interest

This system is, among other things, used by devices using the PMR446 standard. The process is more effective than the simple silencer (also called squelch) that is usually found on all transceivers operating in FM. It allows channels to be artificially divided into sub-channels and thus reduce discomfort between users. However, the CTCSS system does not improve the availability of the radio resource. It simply prevents you **from hearing conversations from users who have chosen another subchannel.**

CTCSS analog key to “protect” your conversation at the entrance For entering
CTCSS, after entering your frequency, go to Menu 3 RCTCS for Reception, AND menu 5 TCTCS for Transmission BEFORE RECORDING the channel

The QUANSHENG K5 and derivatives have 50 CTCSS frequencies, but you can only use 38 of them
AVOID the CTCSS PRO in Orange in the table below: Use the numbering to the RIGHT of the frequency column!

CTCSS

1	67,0	1		11	94,8	10		21	131,8	20	
2	69,3			12	97,4	11		22	136,5	21	
3	71,9	2		13	100,0	12		23	141,3	22	
4	74,4	3		14	103,5	13		24	146,2	23	
5	77,0	4		15	107,2	14		25	151,4	24	
6	79,7	5		16	110,9	15		26	156,7	25	
7	82,5	6		17	114,8	16		27	159,8		
8	85,4	7		18	118,8	17		28	162,2	26	
9	88,5	8		19	123,0	18		29	165,5		
10	91,5	9		20	127,3	19		30	167,9	27	
	31	171,3			41	203,5	32				
	32	173,8	28		42	206,5					
	33	177,3			43	210,7	33			PRO	
	34	179,9	29		44	218,1	34				
	35	183,5			45	225,7	35				
	36	186,2	30		46	229,1					
	37	189,9			47	233,6	36				
	38	192,8	31		48	241,8	37				
	39	196,6			49	250,3	38				
	40	199,5			50	254,1					

REMINDER: Transmission by radio wave is subject to legislation, take note!

DCS Menu

RDCS (Reception) and TDCS (Transmission)

Like CTCSS coding, digital code squelch (DCS) is a selective reception system used on certain transceivers to reduce interference by other users sharing the same radio frequency. It also avoids the annoying background noise of FM. (QRM-Parasites)
The difference with CTCSS , however, lies in the fact that the transmission of the subaudible is digital and no longer analog.
A 3-digit digital code is transmitted in FSK at a speed of 131 baud. This opens reception on the station opposite.

There are Normal DCS: D212N and Inverted DCS D212I

List of DCS: you have the yellow boxes : The pink boxes are PROHIBITED Professional DCS

Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)
1.	000	2.	001	3.	002	4.	003	5.	004	6.	005	7.	006	8.	007
9.	010	10.	011	11.	012	12.	013	13.	014	14.	015	15.	016	16.	017
17.	020	18.	021	19.	022	20.	023	21.	024	22.	025	23.	026	24.	027
25.	030	26.	031	27.	032	28.	033	29.	034	30.	035	31.	036	32.	037
33.	040	34.	041	35.	042	36.	043	37.	044	38.	045	39.	046	40.	047
41.	050	42.	051	43.	052	44.	053	45.	054	46.	055	47.	056	48.	057
49.	060	50.	061	51.	062	52.	063	53.	064	54.	065	55.	066	56.	067
57.	070	58.	071	59.	072	60.	073	61.	074	62.	075	63.	076	64.	077
65.	100	66.	101	67.	102	68.	103	69.	104	70.	105	71.	106	72.	107
73.	110	74.	111	75.	112	76.	113	77.	114	78.	115	79.	116	80.	117
81.	120	82.	121	83.	122	84.	123	85.	124	86.	125	87.	126	88.	127
89.	130	90.	131	91.	132	92.	133	93.	134	94.	135	95.	136	96.	137
97.	140	98.	141	99.	142	100.	143	101.	144	102.	145	103.	146	104.	147
105.	150	106.	151	107.	152	108.	153	109.	154	110.	155	111.	156	112.	157
113.	160	114.	161	115.	162	116.	163	117.	164	118.	165	119.	166	120.	167
121.	170	122.	171	123.	172	124.	173	125.	174	126.	175	127.	176	128.	177
129.	200	130.	201	131.	202	132.	203	133.	204	134.	205	135.	206	136.	207
137.	210	138.	211	139.	212	140.	213	141.	214	142.	215	143.	216	144.	217
145.	220	146.	221	147.	222	148.	223	149.	224	150.	225	151.	226	152.	227
153.	230	154.	231	155.	232	156.	233	157.	234	158.	235	159.	236	160.	237
161.	240	162.	241	163.	242	164.	243	165.	244	166.	245	167.	246	168.	247
169.	250	170.	251	171.	252	172.	253	173.	254	174.	255	175.	256	176.	257
177.	260	178.	261	179.	262	180.	263	181.	264	182.	265	183.	266	184.	267
185.	270	186.	271	187.	272	188.	273	189.	274	190.	275	191.	276	192.	277
193.	300	194.	301	195.	302	196.	303	197.	304	198.	305	199.	306	200.	307
201.	310	202.	311	203.	312	204.	313	205.	314	206.	315	207.	316	208.	317
209.	320	210.	321	211.	322	212.	323	213.	324	214.	325	215.	326	216.	327
217.	330	218.	331	219.	332	220.	333	221.	334	222.	335	223.	336	224.	337
225.	340	226.	341	227.	342	228.	343	229.	344	230.	345	231.	346	232.	347
233.	350	234.	351	235.	352	236.	353	237.	354	238.	355	239.	356	240.	357
241.	360	242.	361	243.	362	244.	363	245.	364	246.	365	247.	366	248.	367
249.	370	250.	371	251.	372	252.	373	253.	374	254.	375	255.	376	256.	377
257.	400	258.	401	259.	402	260.	403	261.	404	262.	405	263.	406	264.	407
265.	410	266.	411	267.	412	268.	413	269.	414	270.	415	271.	416	272.	417
273.	420	274.	421	275.	422	276.	423	277.	424	278.	425	279.	426	280.	427
281.	430	282.	431	283.	432	284.	433	285.	434	286.	435	287.	436	288.	437
289.	440	290.	441	291.	442	292.	443	293.	444	294.	445	295.	446	296.	447
297.	450	298.	451	299.	452	300.	453	301.	454	302.	455	303.	456	304.	457
305.	460	306.	461	307.	462	308.	463	309.	464	310.	465	311.	466	312.	467

313.	470	314.	471	315.	472	316.	473	317.	474	318.	475	319.	476	320.	477
321.	500	322.	501	323.	502	324.	503	325.	504	326.	505	327.	506	328.	507
329.	510	330.	511	331.	512	332.	513	333.	514	334.	515	335.	516	336.	517
337.	520	338.	521	339.	522	340.	523	341.	524	342.	525	343.	526	344.	527
345.	530	346.	531	347.	532	348.	533	349.	534	350.	535	351.	536	352.	537
353.	540	354.	541	355.	542	356.	543	357.	544	358.	545	359.	546	360.	547
361.	550	362.	551	363.	552	364.	553	365.	554	366.	555	367.	556	368.	557
369.	560	370.	561	371.	562	372.	563	373.	564	374.	565	375.	566	376.	567
377.	570	378.	571	379.	572	380.	573	381.	574	382.	575	383.	576	384.	577
385.	600	386.	601	387.	602	388.	603	389.	604	390.	605	391.	606	392.	607
393.	610	394.	611	395.	612	396.	613	397.	614	398.	615	399.	616	400.	617
401.	620	402.	621	403.	622	404.	623	405.	624	406.	625	407.	626	408.	627
409.	630	410.	631	411.	632	412.	633	413.	634	414.	635	415.	636	416.	637
417.	640	418.	641	419.	642	420.	643	421.	644	422.	645	423.	646	424.	647
425.	650	426.	651	427.	652	428.	653	429.	654	430.	655	431.	656	432.	657
433.	660	434.	661	435.	662	436.	663	437.	664	438.	665	439.	666	440.	667
441.	670	442.	671	443.	672	444.	673	445.	674	446.	675	447.	676	448.	677
449.	700	450.	701	451.	702	452.	703	453.	704	454.	705	455.	706	456.	707
457.	710	458.	711	459.	712	460.	713	461.	714	462.	715	463.	716	464.	717
465.	720	466.	721	467.	722	468.	723	469.	724	470.	725	471.	726	472.	727
473.	730	474.	731	475.	732	476.	733	477.	734	478.	735	479.	736	480.	737
481.	740	482.	741	483.	742	484.	743	485.	744	486.	745	487.	746	488.	747
489.	750	490.	751	491.	752	492.	753	493.	754	494.	755	495.	756	496.	757
497.	760	498.	761	499.	762	500.	763	501.	764	502.	765	503.	766	504.	767
505.	770	506.	771	507.	772	508.	773	509.	774	510.	775	511.	776	512.	777

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What is PMR???? http://pmr446.free.fr/index_pmr446.htm

Canal	Fréquence exacte en Mhz
1	446.00625
2	446.01875
3	446.03125
4	446.04375
5	446.05625
6	446.06875
7	446.08125
8	446.09375
9	446.10625
10	446.11875
11	446.13125
12	446.14375
13	446.15625
14	446.16875
15	446.18125
16	446.19375

The Aviation France band https://map.aerobreak.com/

Canaux PMR446 analogiques (NFM) et numériques TDMA (DMR)

Canal	Fréquence	Espacement *réglable au pas de 6.25 Khz*	Utilisation conventionnelle recommandée
1	446,00625 MHz	12,5 kHz	FM => Canal EmCOMM => 1/12 FM => Route (1/9)
2	446,01875 MHz	12,5 kHz	FM => Campeur, camping car => (2/8)
3	446,03125 MHz	12,5 kHz	FM => Canal Preepers (prévoyant) Survivaliste avec CTCSS 210.7 Hz => 3/33 ou FM => Canal Preepers (prévoyant) Survivaliste avec CTCSS 74.4 Hz => 3/3
4	446,04375 MHz	12,5 kHz	FM => Intercom des pilotes de drones avec CTCSS 107.2 Hz => 4/14 FM => Canal entraide 4x4 avec CTCSS 77 Hz => 4/4
5	446,05625 MHz	12,5 kHz	FM => Scouts avec CTCSS 79.7 Hz => 5/5 (source : www.radioscoutisme.org) (archive) DMR => Scouts => CC1 TG907 TS1
6	446,06875 MHz	12,5 kHz	FM => Chasseurs (CTCSS locaux)
7	446,08125 MHz	12,5 kHz	FM => Canal Montagne Rando Pyrénées => 7/7
8	446,09375 MHz	12,5 kHz	**FM => Canal d'appel** avec CTCSS 88,5 Hz ⇒ **8/8** **FM => Canal Detresse ⇒ 8/18** FM => Canal Montagne Rando Alpes (France + Italie RETE RADIO MONTANA) avec CTCSS 114,8 Hz ⇒ 8/16
9	446,10625 MHz	12,5 kHz	**DMR => Canal d'appel** => CC1 **TG99**, sur le TS1 pour le DCDM **DMR => Detresse**** ⇒ CC1 **TG9112***, sur le TS1 pour le DCDM *Et, si pas de réponse pour une urgence (MayDay) => "All Call" **EmCOM sur un autre canal avec même TG
10	446,11875 MHz	12,5 kHz	
11	446,13125 MHz	12,5 kHz	
12	446,14375 MHz	12,5 kHz	
13	446,15625 MHz	12,5 kHz	
14	446,16875 MHz	12,5 kHz	
15	446,18125 MHz	12,5 kHz	
16	446,19375 MHz	12,5 kHz	

The RepeaterBook site to LISTEN to RA relays, also installable on the phone https://www.repeaterbook.com/index.php/en-us/

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Plan Radio des Fréquences Résilientes Françaises

Le jour où tout va mal, il vaut mieux savoir ce qu'on fait rapidement en matière de radiocommunication. Cet aide-mémoire a vocation à vous offrir une vision synthétique des fréquences radio les plus utilisées lors d'urgences ou de situations complexes et imprévues.

Ce plan de radiocommunication des Fréquences Résilientes Françaises n'est aucunement un standard officiel. Il n'a pas d'autorité, et reste dépendant de la réglementation Française en la matière (ANFR). Il faut donc le considérer comme un document informatif, et l'exploiter en fonction de vos prérogatives légales.

Le tableau ci-dessous présente les 3 bandes de fréquences HF, VHF et UHF avec pour chacune les canaux importants à retenir. Faites en bon usage en respectant pour chacune des bandes, les réglementations et les procédures de communications.

Label	Bande	Fréquence	CTCSS/Hz	Usages
CB 3 AM	HF	26.9850		Canal d'appel Survivalistes et Preppers
CB 9 AM	HF	27.0650		Canal d'appel Survivalistes et Preppers
FFVL	VHF	143.987500		Activités de vol libre
V-OP-2M	VHF	145.500000		Canal d'appel Radioamateurs
VHFM525	VHF	145.525000		Canal dégagement Radioamateurs
VHFM550	VHF	145.550000		Canal dégagement Radioamateurs
VHFM575	VHF	145.575000		Canal dégagement Radioamateurs
SHTFPRE	VHF	146.420000		Non attribué zone 1 : Canal dégagement Preppers
SHTF	VHF	146.520000		Non attribué zone 1 : Canal d'appel Survivalistes et Preppers
SHTFSUR	VHF	146.550000		Non attribué zone 1 : Canal dégagement Survivalistes
MER 06	VHF	156.300000		Marine - Canal dégagement Navire à navire
MER 08	VHF	156.400000		Marine - Canal dégagement Navire à navire
MER 16	VHF	156.800000		Marine - Canal d'urgence - Appel de détresse et Sécurité
MER 72	VHF	156.625000		Marine - Canal dégagement Navire à navire
SOS E	VHF	161.300000		Canal E Secours
SOS A	VHF	163.100000		Canal A Secours
PMR 3	UHF	446.031250		Canal d'appel Survivalistes et Preppers
PMR 333	UHF	446.031250	210.7	Canal d'appel Survivalistes et Preppers (Sous-canal 3-33)
PMR 7.7	UHF	446.081250	85.4	Sous-canal 7-7 Secours
PMR 8	UHF	446.093750		Canal d'appel PMR
SOS UA	UHF	463.100000		Canal secours UA
P-ROUG1	UHF	465.650000		Plan rouge Sécurité Civile
P-ROUG2	UHF	465.750000		Plan rouge Sécurité Civile

La Résilience

https://groupefcf.org/index.php/plan-de-bande-pmr446/

Channel	CTCSS frequency		Uses
1	446.00625 MHz		
01/01/23	446.00625 MHz	67.0 Hz	
1-2 CSC	446.00625 MHz	71.9Hz	CSC Canal Security Hunting
1-9 CSR	446.00625 MHz	91.5Hz	CSR Canal Road Safety
1-12 RESQ	446.00625 MHz	100.0 Hz	RESQ emergency channel
2	446.01875 MHz		
02/02/23	446.01875 MHz	71.9Hz	
3	446.03125 MHz		
03/03/23	446.03125 MHz	74.4Hz	survivalist preppers relay
01/03/13	446.03125 MHz	103.5Hz	survivalist preppers relay
01/03/23	446.03125 MHz	146.2Hz	survivalist preppers relay
3-33 SHTF	446.03125 MHz	210.7Hz	survivalist preppers call channel
4	446.04375 MHz		
4-4 4×4	446.04375 MHz	77.0 Hz	4×4
4-14 CSD	446.04375 MHz	107.2Hz	drone safety, model making
5	446.05625 MHz		
5-5 SCOUT	446.05625 MHz	79.7Hz	Scouting radio
5-20 UFO/UFO	446.05625 MHz	131.8Hz	UFOlogy UFO spotter
6	446.06875 MHz		relays/repeaters (experiments, tests)
6-6 R1	446.06875 MHz		82.5 Hz relays / repeaters (experiments, tests)
6-16 R2	446.06875 MHz		114.8 Hz relays / repeaters (experiments, tests)
6-26 R3	446.06875 MHz		162.2 Hz relays / repeaters (experiments, tests)
6-36 R4	446.06875 MHz		233.6 Hz relays / repeaters (experiments, tests)
7	446.08125 MHz		
07/07/23	446.08125 MHz	85.4Hz	RRM Radio Mountain Hiking
8	446.09375 MHz		PMRists call channel can be used for distress
08/08/23	446.09375 MHz	88.5Hz	PMRists call channel can be used for distress
8T8	446.09375 MHz TX 88.5 Hz		PMRists call channel can also be used for distress
01/08/16	446.09375 MHz	114.8Hz	RRM Italy