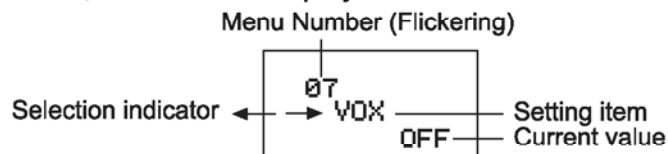


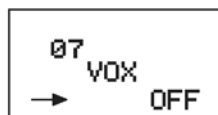
8 MENU SETUP

Setting transmitting VOX ON or OFF and VOX sensitivity level

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【07】**, the LCD will display:



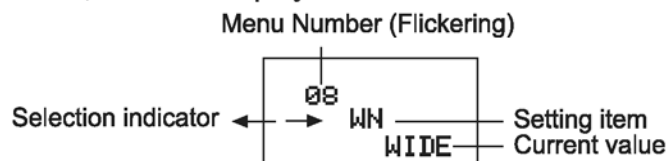
2. Press **【MENU】** again, LCD display:



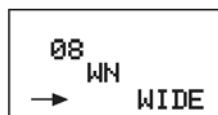
3. Rotate the channel knob **【ENC】** to select your desired VOX ON or OFF, meanwhile, to set the set VOX sensitivity level.
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the setting and exit the menu mode at the same time.

Setting Wide or Narrow band mode (WN)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【08】**, LCD will display:



2. Press **【MENU】** again, LCD display:

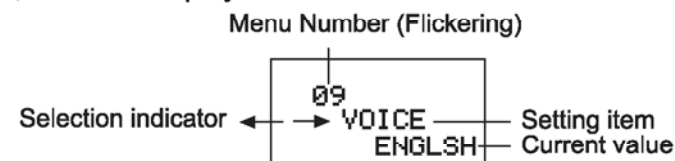


3. Rotate channel knob **【ENC】** to select your desired working mode.
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the setting and exit the menu mode at the same time.

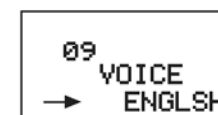
8 MENU SETUP

Setting the voice annunciation language (VOICE)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【09】**, LCD will display:



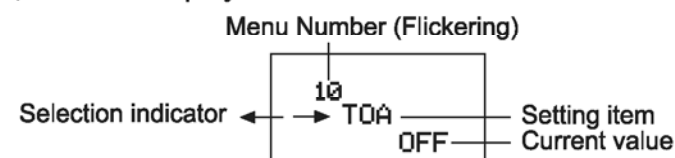
2. Press **【MENU】** again, LCD display:



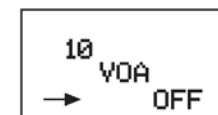
3. Rotate the channel knob **【ENC】** to select your desired operating voice annunciation language. (OFF, ENGLISH, CHINESE)
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the setting and exit the menu mode at the same time.

Setting time of advert before time-out transmitting termination

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【10】**, LCD will display:



2. Press **【MENU】** again, LCD display:

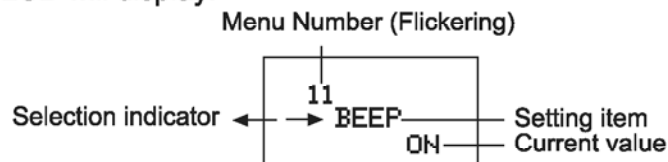


3. Rotate channel knob **【ENC】** to select the time of advert. (OFF, 1 minute, 2, 3,)
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the setting and exit the menu mode at the same time.

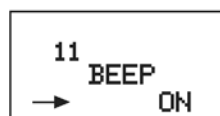
8 MENU SETUP

Setting keypad beep ON or OFF

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【11】**, LCD will display:



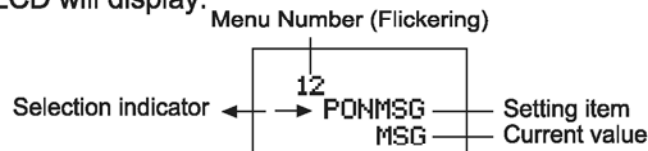
2. Press **【MENU】** again, LCD display:



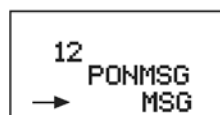
3. Rotate the channel knob **【ENC】** to select the keypad beep ON or OFF.
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the setting and exit the menu mode at the same time.

Setting power on message

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【12】**, LCD will display:



2. Press **【MENU】** again, LCD display:

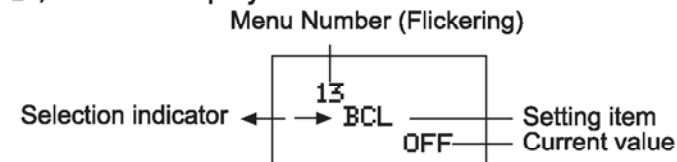


3. Rotate the channel knob **【ENC】** to select the desired Power ON Message.(OFF, BAT-V, MSG)
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the setting and exit the menu mode at the same time.

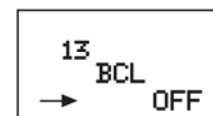
8 MENU SETUP

Setting busy channel lockout ON or OFF (BCL)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【13】**, LCD will display:



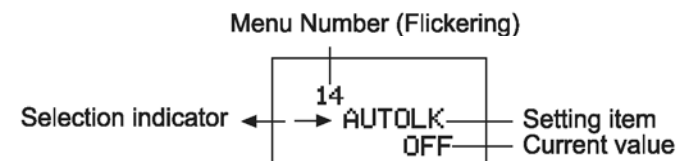
2. Press **【MENU】** again, LCD display:



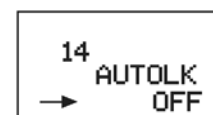
3. Rotate the channel knob **【ENC】** to select auto-lock keypad ON or OFF.
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

Setting keypad lockout automatically or manually ON or OFF (AUTOLK)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【14】**, LCD will display:



2. Press **【MENU】** again, LCD display:

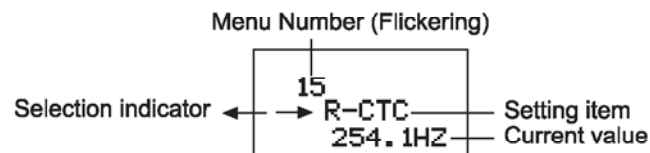


3. Rotate the channel knob **【ENC】** to select auto keypad lockout ON or OFF.
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

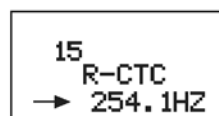
8 MENU SETUP

Setting receiving CTCSS (R-CTC)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【15】**, LCD will display:



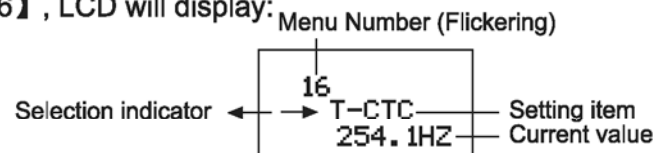
2. Press **【MENU】** again, LCD display:



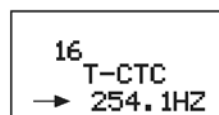
3. Rotate the channel knob **【ENC】** to select the desired receiving CTCSS code.(OFF, 67.0Hz ...254.1Hz)
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

Setting transmitting CTCSS (T-CTC)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【16】**, LCD will display:



2. Press **【MENU】** again, LCD display:

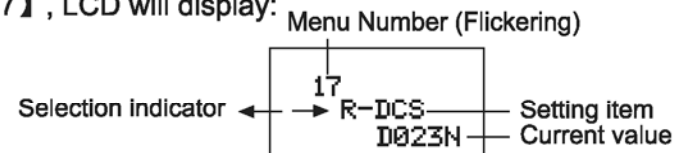


3. Rotate the channel knob **【ENC】** to select the desired transmitting CTCSS code.(OFF, 67.0Hz ...254.1Hz)
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

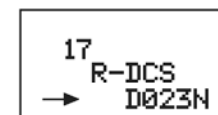
8 MENU SETUP

Setting receiving DCS (R-DCS)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【17】**, LCD will display:



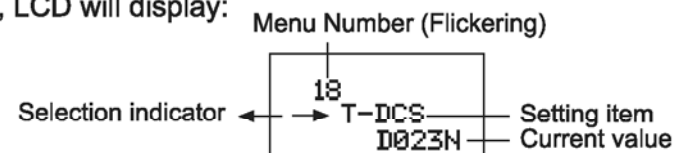
2. Press **【MENU】** again, LCD display:



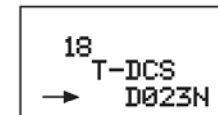
3. Rotate the channel knob **【ENC】** to select the desired receiving DCS code.(OFF, D023ND754N, D023I.....D754I)
Note: N=Normal, I=Reverse.
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

Setting transmitting DCS code(T-DCS)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【18】**, LCD will display:



2. Press **【MENU】** again, LCD display:



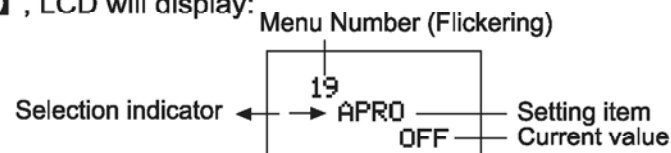
3. Rotate the channel knob **【ENC】** to select the desired transmitting DCS code.(OFF, D023N ...D754N, D023I...D754I)
Note: N=Normal, I=Reverse.
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

8 MENU SETUP

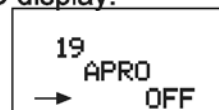
Note: The CTCSS and DCS function can not be activated at the same time. If you activate the CTCSS first, and then open the DCS function, the CTCSS function will be closed automatically.

Setting audio tones (APRO)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【19】**, LCD will display:



2. Press **【MENU】** again, LCD display:



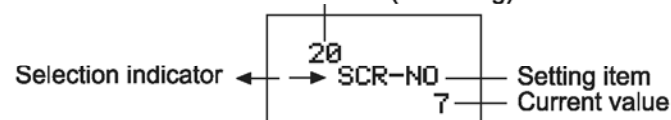
3. Rotate the channel knob **【ENC】** to select desired audio tones.(OFF, COMP---compander,SCR---scrambler)

Note: The COPM and SCR cannot be active at the same time.

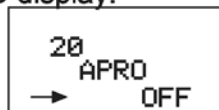
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

Setting the voice scrambler group (SCR-NO)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【20】**, LCD will display: Menu Number (Flickering)



2. Press **【MENU】** again, LCD display:

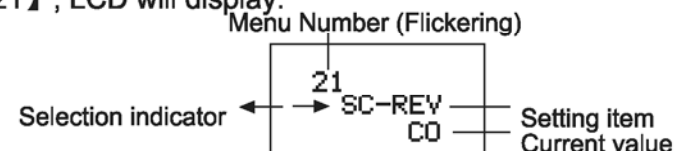


3. Rotate the channel knob **【ENC】** to select the desired scramble group.(1,2,3, 4.....8)
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

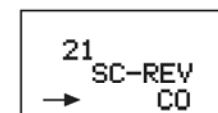
8 MENU SETUP

Setting Scan mode (SV-REV)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【21】**, LCD will display:



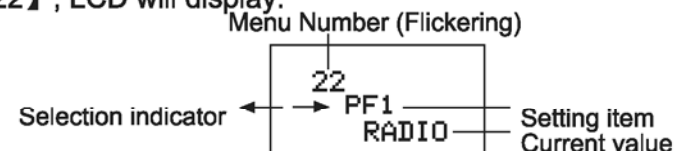
2. Press **【MENU】** again, LCD display:



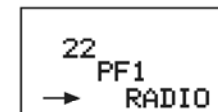
3. Rotate the channel knob **【ENC】** to select the desired scan mode. (CO---Carrier-Operated mode, TO---Time-Operated Mode, SE---Seek mode)
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting and exit the menu mode at the same time.

Setting PF1 button Function Definition

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【22】**, LCD will display: Menu Number (Flickering)



2. Press **【MENU】** again, LCD display:

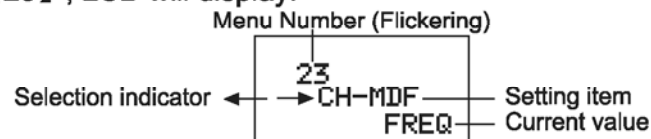


3. Rotate the channel knob **【ENC】** to select the PF1 button function.(OFF, RADIO, CALL, SCAN, LAMP---backlight)
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting and exit the menu mode at the same time.

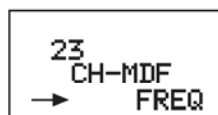
8 MENU SETUP

Setting Frequency/Channel/Message display mode (CH-MDF)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no **【23】** , LCD will display:



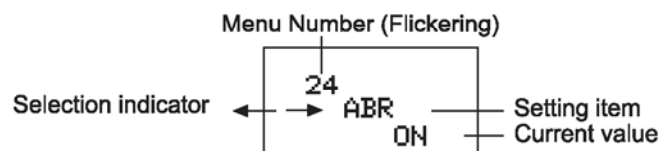
2. Press **【MENU】** again, LCD display:



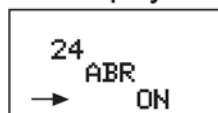
3. Rotate the channel knob **【ENC】** to select display mode. (CH= channel mode, FREQ= frequency mode, CHFREQ= to display both channel and frequency, Name=self-program message)
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting and exit the menu mode at the same time.

Setting Backlight ON/OFF (ABR)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【24】** , LCD will display:



2. Press **【MENU】** again, LCD display:

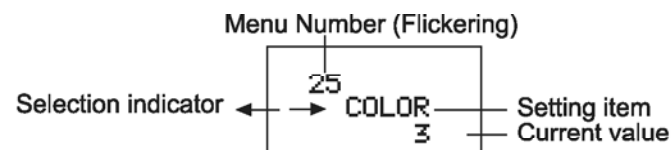


3. Rotate the channel knob **【ENC】** to turn ON or OFF the backlight.
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting and exit the menu mode at the same time.

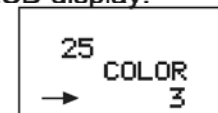
8 MENU SETUP

Setting Backlight Color (COLOR)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【25】** , LCD will display:



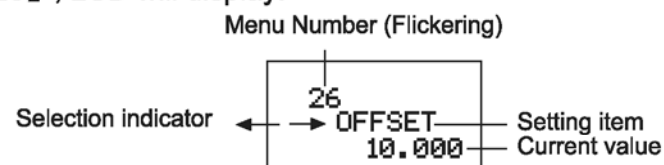
2. Press **【MENU】** again, LCD display:



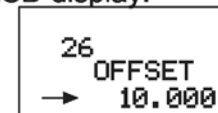
3. Rotate the channel knob **【ENC】** to select backlight color (1=Purple, 2=Blue, 3=Orange).
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting and exit the menu mode at the same time.

Setting Offset frequency (OFFSET)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【26】** , LCD will display:



2. Press **【MENU】** again, LCD display:

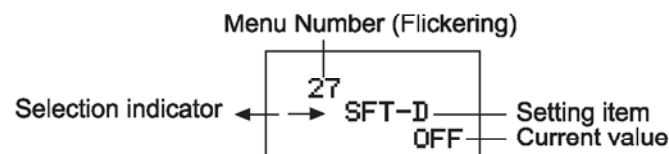


3. Rotate the channel knob **【ENC】** to select different value between receiving and transmitting, offset frequency. (It can be inputted directly via Keypad). (00.000Mhz.....99.950Mhz)
Note: To set the offset frequency, it should be under frequency mode.
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

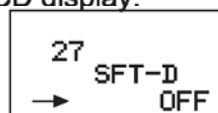
8 MENU SETUP

Setting Offset frequency Direction (OFFSET-D)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【27】**, LCD will display:



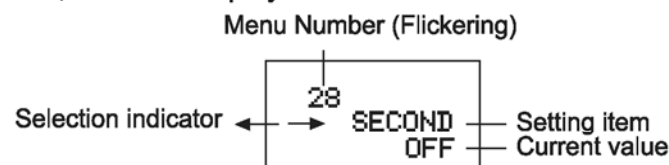
2. Press **【MENU】** again, LCD display:



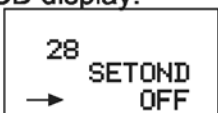
3. Rotate the channel knob **【ENC】** to select direction of offset frequency. (OFF, +, -)
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

Setting Stopwatch ON/OFF (SECOND)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【28】**, LCD will display:



2. Press **【MENU】** again, LCD display:

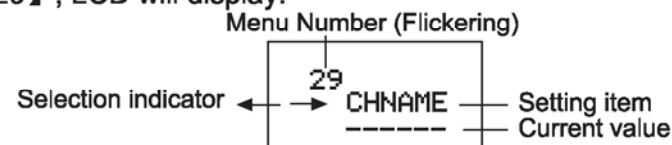


3. Rotate the channel knob **【ENC】** to turn ON or OFF the stopwatch.
Note: Once you turn on the stopwatch, please press **【#】** to activate the stopwatch function.
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

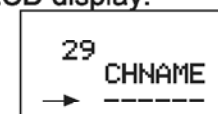
8 MENU SETUP

Channel naming (CHNAME)

1. Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【29】**, LCD will display:



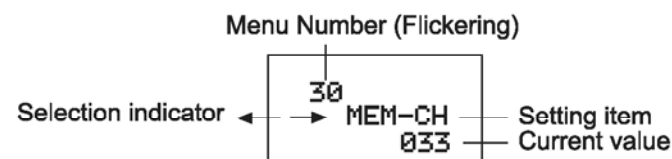
2. Press **【MENU】** again, LCD display:



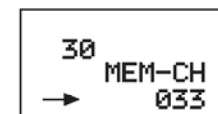
3. Rotate the channel knob **【ENC】** clockwise to select message content. Contrarotate the channel knob **【ENC】** to go on next letter or grapheme.
Note: The function is disabled under frequency mode.
4. Press **【MENU】** to confirm and store the current setting value and continue other setting, or press **【EXIT】** to cancel the current setting value and exit the menu mode at the same time.

Storing Receiving Channel (MEM-CH)

1. To input the desired receiving frequency first, and select the desired receiving function (such as CTCSS or DCS, COMP or SCR etc). Then press **【MENU】** and rotate the channel knob **【ENC】** to menu no. **【30】**, LCD will display:



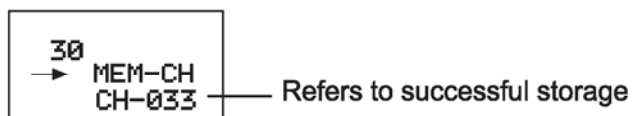
2. Press **【MENU】** again, LCD display:



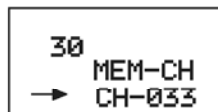
3. Rotate the channel knob **【ENC】** to store the desired channel number.
(Note: Displayed "033" indicates available channel number. Displayed "CH-033" indicates a receiving channel number is stored already, it cannot store any receiving channel again.)

8 MENU SETUP

- 4、Press 【MENU】 again, LCD display:



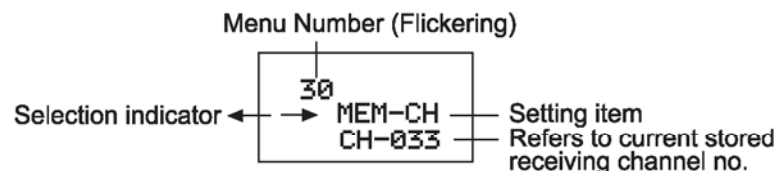
- 5、Press 【MENU】 to store same transmitting frequency. LCD display:



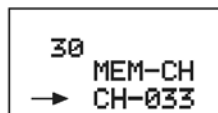
- 6、Press 【MENU】 to confirm and store the current transmitting channel and continue other menu setting, or press 【EXIT】 to cancel the current setting value and exit the menu mode at the same time.

Setting Transmitting Channel (MEM-CH)

- 1、To input the desired transmitting frequency first, and select the desired receiving function (such as CTCSS or DCS, COMP or SCR etc). Then press 【MENU】 and rotate the channel knob 【ENC】 to menu no. 【30】 , LCD will display:



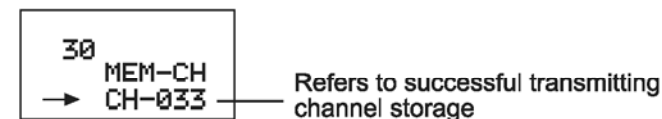
- 2、Press 【MENU】 again, LCD display:



- 3、Rotate the channel knob 【ENC】 to store the desired transmitting channel number.
(Note: Displayed "033" indicates a receiving channel number is stored already, you could store or cover the original transmitting channel.)

8 MENU SETUP

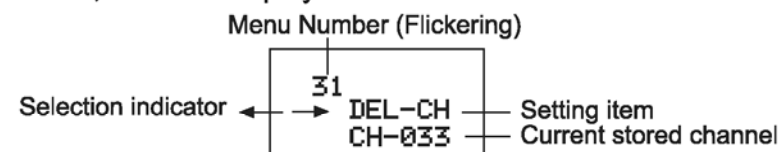
- 4、Press 【MENU】 again, LCD display:



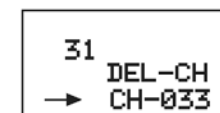
- 5、Rotate the channel knob 【ENC】 to continue other setting, or press 【EXIT】 to exit the menu mode.

Deleting Stored channel

- 1、Press 【MENU】 and then rotate the channel knob 【ENC】 to menu no. 【31】 , LCD will display:



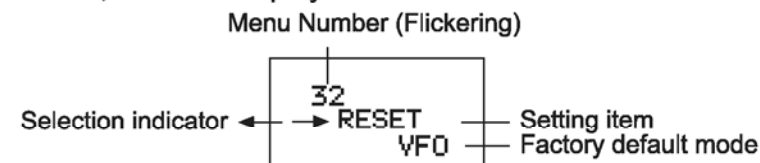
- 2、Press 【MENU】 again, LCD display:



- 3、Rotate the channel knob 【ENC】 to delete the desired channel. (Note: The available channel cannot be deleted.)
4、Press 【MENU】 to confirm and store the current setting value and continue other setting, or press 【EXIT】 to cancel the current setting and exit the menu mode at the same time.

Resetting factory default or delete all operation (RESET)

- 1、Press 【MENU】 and then rotate the channel knob 【ENC】 to menu no. 【32】 , LCD will display:



- 2、Press 【MENU】 again, LCD display:

8 MENU SETUP

32
RESET
→ VFO

- 3、Rotate the channel knob **【ENC】** to select the desired operation. (VFO= Resume to factory default; ALL= Delete all storage.)

Note: Once you operate "ALL", all the stored channel and function will be deleted.

- 4、Press **【MENU】** again, LCD display:

32
RESET
→ SURE?

- 5、Press **【MENU】** to confirm or press **【EXIT】** to cancel the operation. LCD display:

32
RESET
→ WAIT ——— Waiting

Scanning CTCSS or DCS (SCN CD)

Note: only received a carrier signal, the transceiver can perform CTCSS or DCS scanning, if there is no carrier signal received, the CTCSS and DCS scanning can not be activated

- 1、Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【33】**, LCD will display:

Menu Number (Flickering)
Selection indicator ← 33
→ SCN CD ——— Setting item
CTCSS ——— Current value

- 2、Press **【MENU】** again, LCD display:

33
SCN CD
→ CTCSS

- 3、Rotate the channel knob **【ENC】** to scan the desired CTCSS or DCS.
4、Press **【MENU】** to confirm the scanning, or press **【EXIT】** to cancel the operation and exit the menu mode at the same time.

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Emergency calling band A or B operation (SOS-CH)

- 1、Press **【MENU】** and then rotate the channel knob **【ENC】** to menu no. **【34】**, LCD will display:

Menu Number (Flickering)
Selection indicator ← 34
→ SOS-CH ——— Setting item
CH-B ——— The current calling band "B"

- 2、Press **【MENU】** again, LCD display:

34
SOS-CH
→ CH-B

- 3、Rotate the channel knob **【ENC】** to select the desired emergency calling band.
4、Press **【MENU】** to confirm, or press **【EXIT】** to cancel the operation and exit the menu mode at the same time.

Available CTCSS Tone Frequencies

OFF	91.5	127.3	167.9	199.5	254.1
67.0	94.8	131.8	171.3	203.5	
69.3	97.4	136.5	173.8	206.5	
71.9	100.0	141.3	177.3	210.7	
74.4	103.5	146.2	179.9	218.1	
77.0	107.2	151.4	183.5	225.7	
79.7	110.9	156.7	186.2	229.1	
82.5	114.8	159.8	189.9	233.6	
85.4	118.8	162.2	192.8	241.8	
88.5	123.0	165.5	196.6	250.3	

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The Available DCS Code (Normal"N")

OFF	053N	131N	205 N	261 N	343 N	432 N	516 N	645 N
017N	054N	132N	212 N	263 N	346 N	445 N	523 N	654 N
023N	065N	134 N	223 N	265 N	351 N	446 N	526 N	662 N
025N	071N	143 N	225 N	266 N	356 N	452 N	532 N	664 N
026N	072N	145 N	226 N	271 N	364 N	454 N	546 N	703 N
031N	073N	152 N	243 N	274 N	365 N	455 N	565 N	712 N
032N	074N	155 N	244 N	306 N	371 N	462 N	606 N	723 N
036N	114N	156 N	245 N	311 N	411 N	464 N	612 N	731 N
043N	115N	162 N	246 N	315 N	412 N	465 N	624 N	732 N
047N	116N	165 N	251 N	325 N	413 N	466 N	627 N	734 N
050N	122N	172 N	252 N	331 N	423 N	503 N	631 N	743 N
051N	125N	174 N	255 N	332 N	431 N	506 N	632 N	754 N

The Available DCS Code (Reverse"I")

OFF	053 I	131 I	205 I	261 I	343 I	432 I	516 I	645 I
017 I	054 I	132 I	212 I	263 I	346 I	445 I	523 I	654 I
023 I	065 I	134 I	223 I	265 I	351 I	446 I	526 I	662 I
025 I	071 I	143 I	225 I	266 I	356 I	452 I	532 I	664 I
026 I	072 I	145 I	226 I	271 I	364 I	454 I	546 I	703 I
031 I	073 I	152 I	243 I	274 I	365 I	455 I	565 I	712 I
032 I	074 I	155 I	244 I	306 I	371 I	462 I	606 I	723 I
036 I	114 I	156 I	245 I	311 I	411 I	464 I	612 I	731 I
043 I	115 I	162 I	246 I	315 I	412 I	465 I	624 I	732 I
047 I	116 I	165 I	251 I	325 I	413 I	466 I	627 I	734 I
050 I	122 I	172 I	252 I	331 I	423 I	503 I	631 I	743 I
051 I	125 I	174 I	255 I	332 I	431 I	506 I	632 I	754 I

8 MENU SETUP

KEYBOARD SHORTCUT OPERATION

ITEM	Shortcut Operation	Function description
Frequency step	Press[MENU]+01	Change frequency setp
Adjustsquellch level	Press[MENU]+02	Squelch sensibility
Save power	Press[MENU]+03	No signals received will get into sleep mode
TXpower	Press[MENU]+04	High / Low power selection
Roger beep	Press[MENU]+05	Will notify the other party after transmittin
Time-out timer	Press[MENU]+06	The longest time for single transmitting
VOX function	Press[MENU]+07	Turn on or off VOX sensibility
N/W band	Press[MENU]+08	Narrow or wide band communication
VOICE	Press[MENU]+09	Chlnese or English Pronunciation
Transmitting overtime warning	Press[MENU]+10	Transmitting overtime warning(Minutes)
Beep	Press[MENU]+11	Turn on or off beep sound
Power on message	Press[MENU]+12	Message showed after power on
BCL	Press[MENU]+13	Transmitting is prohibited during receiving
Keypad lock	Press[MENU]+14	Automatic or manual
RX CTCSS	Press[MENU]+15	Receiving CTCSS
TX CTCSS	Press[MENU]+16	Transmitting CTCSS
RX DCS	Press[MENU]+17	Receiving DCS
TX DCS	Press[MENU]+18	Transmitting DCS
Audio tones	Press[MENU]+19	OFF, COMP, SCR
Privacy calling	Press[MENU]+20	1-8 Groups
Scan resume method	Press[MENU]+21	TO / CO / SE
Side key defination	Press[MENU]+22	Turnoff, FMradio, Calling, Backlight
Display mode	Press[MENU]+23	Channel, Frequency, Channel+frequenc
Automatic backlight	Press[MENU]+24	Automaticorturnoff
Three background colors	Press[MENU]+25	1.Purple, 2.Blue, 3.Orange
Offset frequency	Press[MENU]+26	Offset frequency between RX and TX
Offset direction	Press[MENU]+27	+,-
Stopwatch switch	Press[MENU]+28	Turnon/off stopwatch
Channel naming	Press[MENU]+29	Setting channel name
Memory Channel	Press[MENU]+30	Memory RX, TX channel
Delete Channel	Press[MENU]+31	Delete memory channel
Restore factory default setting/clear all	Press[MENU]+32	Restore factory default setting or clear all
CTCSS/DCS scan	Press[MENU]+33	CTCSS / DCSScan
SOS channel	Press[MENU]+34	Designate band A or B as SOS channel

REMAINING BATTERY CAPACITY

Before you operate the transceiver outside using a battery pack, it is important to know how long the battery pack will last.

The battery remaining indicator shows the remaining capacity.

- ▢ High battery power
- ▢ Medium battery power
- ▢ Low battery power
- ▢ Recharge or replace the batteries.

WIRED CLONE

The steps to active wired clone:

1. Turn on the power of the vice radio, and then connect the two radios with cloning cable.
2. Press **【MONI】** key of the master radio to turn on the power, while "CLONE?" appears on the master radio, then release **【MONI】** key.
3. Press **【FUNC】** key and then begin cloning. During cloning process, master radio shows "CLONE" and the red light blinks, while vice radio doesn't refresh showing, and green light blinks. Until the red light of the master radio changes from blinking to bright all the time, "SUCCESS" will appear on the master radio, which means cloning successfully.
4. During the data transmission, if "ERROR" appearing on the master radio means failing to clone, then please check whether the cloning cable connects well or not, then press **【FUNC】** key of master radio.

Single / Double stand-by Switching

Press and hold **【A/B】** for 2 seconds, the transceiver will switch to single stand-by or double stand-by mode.

【* SCAN】 Function

A short press means turning on or off reverse frequency, while pressing for 2 seconds means activating Scan feature.

【# LOCK】 function

A short press means turning on or pause Stopwatch, while long press means turning on or off keypad lock.

1750Hz calling

Press PTT button and MONI key together to make a call, the transceiver will sound 1750Hz testing audio, while releasing the buttons will stop calling.

SOS alerting

In an emergency situation, the transceiver can send out "hoot.." sound for help via designated channel or frequency on Band A or B, and meanwhile, the radio

itself makes "hoot..." sound and backlight flashes. The emergency call lasts for 10 seconds every time and the interval is 5 minutes. During SOS transmitting, you can press any key to exit, however, if there is a carrier signal appears, the transceiver will get into receiving, and SOS-CH will continue after signal disappeared.

FM Radio

Turn on FM radio

Under stand-by mode, press **【PF1】** key to turn on FM radio. (Setting PF1 to Radio)

Adjust FM radio channels

While FM radio is on, press **【* SCAN】** key, the FM radio will adjust channels automatically and flash green till a FM radio channel is searched; you can also have a adjustment on the searched channels by rotating ENC.

Store FM radio channels

When there is a FM radio channel being searched, press **【MENU】** key, the LCD displays "save?", then press any numeric key (1-9) to store the searched channel for future use.

In the transceiver, there are two groups FM radio channels for storage. The transceiver is default to be in the TEAM 1 during storing, you can press **【# LOCK】** key to switch over TEAM 1 and TEAM 2.

Callout use of stored FM radio channels

Press numeric key to callout and listen to your stored channel when the FM radio is turned on.

Optional signaling

There are three optional signalings in iP-VU1A: MSK, 2-Tone, 5-Tone; every optional signal has 8 groups of decoding sets, and MSK and 2 Tone have 10 groups of encoding sets, while there is no limit for 5 Tone encoding groups. Except 5-Tone, the encoding and decoding of these optional signalings can only programmed by software.

MSK/2 Tone encode manually (PF1 key should be defined as CALL)

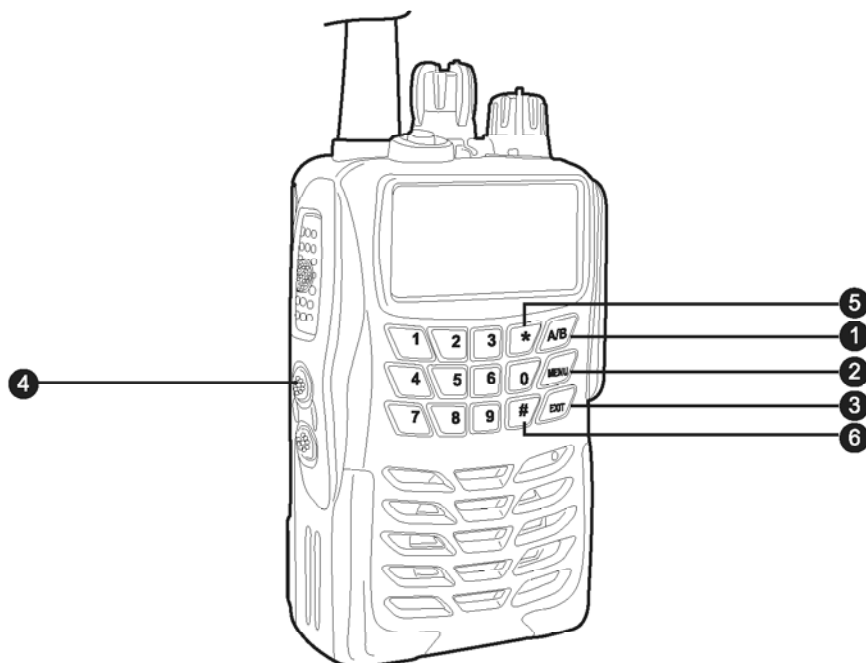
While press **【PF1】** key, the LCD displays "MSK/2T?", you can press numeric key 0-9 to callout corresponding calling list to call; if the corresponding calling list is not edited, it will sound a "DOO" beep.

When 2 Tone is encoding, tone A sends for 1 second and tone B sends for 3 seconds; but if there is only tone A setted on the calling list, then tone A will send for 5 seconds (in trial use, the transceiver is used as group calling).

5 Tone encode manually (PF1 key should be defined CALL)

While press **【PF1】** key, the LCD displays "CALL/----", then input the transceiver's decoding groups contents that you want to call, then press PTT button to start calling.

SOME SPECIAL KEYS OPERATING INSTRUCTIONS



1. 【A/B】 key, used for switching A / B frequency band; or worked as “A” code under the DTMF dialing.
2. 【MENU】 key, used for entering into menu operation or as 【FUNC】 key; or worked as code “B” under DTMF dialing.
3. 【EXIT】 key, used for exiting menu operation or cancelling the current operation; or worked as code C in the DTMF dialing..
4. 【PF1】 key, used as user-defined operation; or worked as code “D” under the DTMF dialing..
5. 【*】 key, used for Reverse Frequency
6. 【#】 key, used for turn ON/OFF keypad lockout (press and hold for 3 seconds). Once the Stopwatch function is turned on, it is also used as turning ON or OFF the function.

Frequency/ Channel Display Operation

When the transceiver is under the standby mode, press 【MENU】 and then press 【A/B】 , the frequency mode and channel mode will be shifted.

Technical Specifications

Model	iP-VU1A
Frequency Range	Type A VHF: 144~146 MHz(TX/RX) UHF: 430~440 MHz(TX/RX) Type B VHF: 136~175 MHz(TX/RX) UHF: 400~470 MHz(TX/RX) Type C VHF: 136~175 MHz(TX/RX) UHF: 420~520 MHz(TX/RX) Type D VHF: 136~175 MHz(TX/RX) UHF: 400~470 MHz(RX) UHF: 350~400 MHz(RX)
Frequency Stability	5PPm
Battery Voltage	DC 7.2V(Chargeable Li-ion Battery)
Memory Channel	128
Antenna Configuration	Rubber Antenna
Antenna Impedance	50 Ω
Working Type	Same frequency Simplex Different Frequency Simplex
Dimensions	97X58X40



10 TECHNICAL SPECIFICATIONS

Transmitter

RF Power Output	HIGH \geq 5W LOW \geq 0.5W
Modulation Type (W/N)	16KF ϕ 3E/11K ϕ F3E
Maximum Deviation (W/N)	<5KHz/<2.5KHz
Adjacent Channel Power (W/N)	\geq 65dB/ \geq 60dB
Spurious Emission Power	<7 μ W
Pre-emphasis Features	6dB/Increased by Frequency Times
Transmit Current	\leq 1.6A(5W)
CTCSS/DCS Deviation (W/N)	0.5KHz \pm 0.1KHz, 0.3KHz \pm 0.1KHz
Modulation Sensitivity	8-12mV
Modulation Distortion	<10%

Receiver

Referenced Sensitivity	-122dBm(12dB SINAD)
Audio Power	>0.5W
Audio Distortion	<10%
Block	\geq 85
Intermodulation (W/N)	\geq 65dB \geq 60dB
Adjacent Channel Selectivity (W/N)	\geq 68dB \geq 63dB
Spurious Rejection	\geq 65dB



11 STANDARD ACCESSORIES

SUPPLIED ACCESSORIES

Item	Quantity
Antenna	1
Twin Charger	1
Adaptor	1
Li-ion Battery Pack(2300mAh)	1
Belt clip	1
User manual	1
Hand Strap	1

Note:This product is with waterproof rated IP65, we will not undertake any compensation or warranty responsibility for watering or damage caused by using special accessories not sold by us (including related accessories like battery pack, earpieces and so on).