Ailunce HD1 Software Manual

- By BH6PJL

Website: www.ailunce.com Email: hams@ailunce.com FB: https://www.facebook.com/ailunce Twitter: https://twitter.com/ailunce Youtube: https://www.youtube.com/channel/UCGyspET2YR_z0Ruczm-S54g

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Basic Setting:

Basic information

Basic Information		
Basic Ir	nformation	S
		V
Serial No: [Fi
Version Date:		N
Firmware Version:		
		bl

Serial No. - S/N number Version Date - Date of manufacture Firmware Version - Current firmware version Note: All the information can be read from the radio, but no changes can be made.

Setting

Password Setting:

Enable Read Password:
Read Password: 000000

Enable Write Password -

This parameter allows users to enable or disable the CPS write lock. Users will need to enter the correct CPS write password before writing.

Write Password -

This parameter allows users to set the write password with a maximum of six number. 000000-9999999.

Note: This parameter will be available only when CPS Enable Write Password is checked.

Enable Read Password - Checked means enable password.

Read Password - Set the password value.

Note: when you forget the password, please contact the seller.

Basic Attributes:

KeyPress Voice-assist:	ON	-	Noise Tail Elimination Mode:	Reverse Code	-
Keypress Voice Language:	ENGLISH	•	Noise Tail Elimination:	V	
Squeich Level:	4	•	Keylock at Power-on:		
Repeater Connect	2	•	Auto Keylock After 15sec:	Г	
A/B Scan Time in Dual Band(s):	5	•	Key Beep Tones:	$\overline{\mathbf{v}}$	
Battery Powersave Mode:	1: 4	•	Roger Beep:	Г	
Vakeup Speed From Powersave:	Fast	•	Dual Watch Band A/B(BDR):	Г	
Priv/Group Call Response	OFF	•	Accept Radio Kill Cmd:	Γ	
one Worker Response Time(m):	1	•	Accept Radio Wakeup Cmd:		
Lone Worker Pre-Alarm(s):	1	•	Talk Permit Tone(Digital):	Γ	
Default Zone Band A:	No Zone	•	Talk Permit Tone(Analogue):	Γ	
Default Zone Band B:	No Zone	•	No RX Info when Operating Menu:	v	
			RX Info Display Time(s):	1	-

KeyPress Voice-assist - OFF: There will be no voice broadcast when operate the radio.

ON: There will be voice broadcast when operate the radio.

KeyPress Voice Language - Select voice broadcast Chinese or English.

Squelch Level - 0-9 levels. To assure receiving completely, select squelch at a low level under weak signal. But the lower the level, the stronger the received invalid interference.

Repeater Connect - Repeater automatic connect times. The number indicates the times radio automatic

transmitting when not connect repeater successful after press PTT.

Note: When you can't connect the repeater, try to set a higher value.

A/B Scan Time in Dual Band(s) - The switch time between A band & B band. After B band receive, how long does it takes before A band start receiving.

Battery Powersave Mode - Enabling this feature causes an idle radio to enter Battery Saver mode automatically if no carrier is detected or transmission is made within a certain period.

Battery saving rate higher users select, the more power saved.

Wakeup Speed From Powersave -

The speed of Radio decoding the receiving signal in battery save mode.

Priv/Group Call Response -

It is digital channel transmission contact selection.

Off: Launch with the set of contacts when launching.

1-10s: If the current channel has received the call within this time range, it will be transmitted with the received

contact. If the set time is not transmitted or is received, it is transmitted with the set contact.

Note: This option is only valid for digital mode.

Lone Worker Response Time(m) -

When there is no any operations within the set time, the radio will automatically alarms and sounds.

Lone Worker Pre-Alarm(s) -

When there is no any operations within the Lone Worker Response Time, the radio will automatically alarms and sounds. Lone Worker Pre-Alarm time indicates the the duration of the alarm sound.

Default Zone Band A - The Band A default zone when users turn on the radio.

Default Zone Band B - The Band B default zone when users turn on the radio.

Noise Tail Elimination Mode - Two options. The default option is Reverse Code. Basically all of the tail sounds can be eliminated by Reverse Code. Very few radios may be needed to use 54.7Hz. 54.7Hz is just one more option, it's rarely used.

Note: This parameter will be available only when CPS Noise Tail Elimination is checked.

Noise Tail Elimination - Checked means turn on the Noise Tail Elimination.

Keylock at power-on - The radio keypad default is locked when users turn on the radio.

Auto Keylock After 15sec - Radio keypad will be locked automatically if without any operation for about 15s.

Key Beep Tones - Checked, when users press the radio key there will be sound.

Unchecked, there is no sound when users press the radio key.

Roger Beep - Transmit ends prompt voice switch

Dual Watch Band A/B(BDR) - Checked, Radio will default dual band.

Accept Radio Kill Cmd - Checked, indicate the radio accept other radio remote kill command.

Unchecked, the radio will never be remote kill.

Accept Radio Wakeup Cmd -

Checked, indicate the radio accept other radio remote wakeup command.

Unchecked, the radio will never be remote wakeup.

Talk Permit Tone(Digital) - Checked, turn on the Talk Permit Tone in Digital mode. When users press PTT, there will be a sound. Unchecked, there will be no sound when press PTT.

Talk Permit Tone(Analogue) - Checked, turn no the Talk Permit Tone in analog mode. When users press PTT,

there will be a sound. Unchecked, there will be no sound when press PTT

No RX info when Operating Menu - Checked, when users are operating the radio menu, there will be no receiving information display to Interrupt the operation. When the radio on home page, there will be normal caller's information display. Unchecked, no matter what users are doing, when there is signal, the radio will show caller's information.

RX info Display Time(s) - After the signal end, how long the receive information will keep display.

<u>Display</u>

Active Band At Power-On: A Fre	quency 🗾	Power-on Password:
Doold jabt Time (a):		000000

Active Band At Power-ON -

The default Band when users turn on the radio. The other band will display date and time.

Note: It only available when the radio default signal Band.

Backlight Time(s) -

1-120, Screen Background will turn off automatically if there is no operations within the setting time.

Countless: Screen lights on forever.

Power-on Password -

Checked, when you turn on the radio, You need to write the right password.

Note: If users want to initialize the radio, please unchecked it first. When users check it, the radio won't allow users initialize the radio.

Mic Setting

Mic Setting -				
	VOX Delay Time:	0.5s	-	Press PTT to cancel VOX:
	Mic Gain:	0	•	Insert Headset Activates VOX:

VOX Delay Time -

VOX delay time, 0.5~5s

Mic Gain -

-10~10, Microphone sensitivity. Higher and more sensitive.

Note: When other people feedback your radio voice is low, you can adjust it to a higher value, and speak closer to

the radio mic. The best distance is 5-10cm.

Press PTT to Cancel VOX -

Checked, when you press PTT, the VOX will auto off.

Insert headset Activates VOX -

Checked, when you insert headset, the radio VOX function will auto on.

Key Setting	Key Setting		
Long Pr	255	Short Pr	ess
Side Key 1: No set	_	Radio	•

Key Setting

No Set - the side key no function. High/Mid/Low power switch - Press to switch the radio power Scan - Turn on/off the scan Radio - Turn on/off the FM broadcast

Wake Up - Transmit command to remote wake up other radios.

Repeater/Talkaround - Press to switch repeater & talkaround.VOX - Turn on/off VOXTransceive Inhabit - Transmit command to remote kill other radios.Analog Monitor - Turn on/off analog monitor1000Hz, 1450Hz, 1750Hz, 2100Hz - Single tone signallingZone Plus - Press to switch next zoneZone Minus - Press to switch last zoneDMR Slot - Switch slot 1 and slot 2Promiscuous - Turn on/off promiscuousManu Dial - One key to enter into manual dial page.Ch-Mode - Switch channel mode, frequency, channel, name.One key 1 ~ 6 - Custom function

One Key Call

One Key (Call					
			One K	ey Call		
				50 X		
No.	Call Mode	Call List	Priority	Address Book	Call Type	Quick Message
1	None	None			None	None
2	None	None			None	None
3	None	None			None	None
4	None	None			None	None
5	None	None			None	None
6	None	None			None	None

One key Call

This feature provides you with shortcut to make calls or quick menu access. By pressing a programmed One Touch Call/Menu key, you can make a call or send a message to the predefined contact, or access the predefined menu directly.

To use the function properly, set the following information.

Call Mode:

This option allows you to view all available call modes.

None: Disables the One Touch Call function.

Digital: Enables the One Touch Call function in digital mode.

Note: When this option is set to None, Call List, Call Type and Quick Text will be unavailable.

Call List:

This option allows you to view all available contacts or shortcuts list.

Call Type:

This option allows you to set Call or message.

Quick Message:

This option allows you select the message you have set

Note: Only the one key message you have set, quick message will be available.

No.	One Key Message	
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

One Key Message:

Users are allowed to pre-edit 50 quick notes at most. Each note should have less than 100 characters, including letters, numbers, space and other symbols. Users can access Quick Notes through Messages menu.

ID Setting				
No.	Radio ID	Radio Name	-	
1	1234	radio-1		
2	2345	radio-2		
3	3456	radio-3		
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17			+	

Radio ID

The radio supports to save 32 IDs. When you setting the channels you can select the ID you want to use based on the actual situation. Note: The CPS default radio ID in channels is the first one. So users don't worry that you need to select it every time. Put the the most commonly used on the first one. And when you want to use another radio ID in one channel and you select the one you want.

Contact



Priority Contacts -

It supports to save 1000 contacts. Supports to edit, add, delete, sort, import, export on the CPS. The most

important is priority contacts supports to add, edit, delete contacts via radio keypad.

Basic Information						
	Address Book Contacts		Address Bo	ok Contacts		
- ID Setting	Import Contacts	F	Read Contacts	Write Contacts	Export	Contacts
Zone Information	/		1 page 🕨	M		
Radio Contacts	No. Call Type	Contacts Alias	City	Province	Country	Call ID
Priority Contacts	1 2					
RX Group Lists	3 4					
DMR Service -	5					
	7					
	8 Q					

Address Book Contacts -

It supports to save 100000 contacts, Supports to import and export by .CSV file. But don't allows edit on the CPS and radio.

Click the Import Contacts first, after you have import the contact data to the CPS, you can click the Write Contacts and write the contacts to the radio.

If you want to read the contacts from the radio, you can click the Read Contacts. If you need to export the contacts, you can click the Export Contacts.

Note: The address book contacts is independent of the codeplug. When you write or read radio codeplug, it won't effect the address book contacts. If you want to change it, you need to write and read it alone in CPS contacts. For the address book contacts don't allow edit on the radio keypad, so it mainly used to store private call contacts. And it will let the radio show caller's information when there is a signal.

Contacts download:

http://www.amateurradio.digital/wizard.php?radio=hd1&force=yes



RX Group Lists

The radio supports save 254 RX

group lists.

Users can customize the group name

and put some contacts into one

receive group list.

		Encrypt	ion
Normal Encryption			Enhanced Encryption
Key No.	Key Value	Key No.	Key Value
1	1000	1	100000000000000000000000000000000000000
2	2000	2	200000000000000000000000000000000000000
3	3000	3	300000000000000000000000000000000000000
4	4000	4	400000000000000000000000000000000000000
5	5000	5	500000000000000000000000000000000000000
6	6000	6	600000000000000000000000000000000000000
7	7000	7	700000000000000000000000000000000000000
8	8000	8	800000000000000000000000000000000000000
9	9000	9	900000000000000000000000000000000000000
10	1100	10	110000000000000000000000000000000000000
11	1200	11	120000000000000000000000000000000000000
12	1300	12	130000000000000000000000000000000000000
13	1400	13	140000000000000000000000000000000000000
14	1500	14	150000000000000000000000000000000000000
15	1600	15	160000000000000000000000000000000000000
16	1700	16	170000000000000000000000000000000000000

Encryption - Users are allowed to encrypt the radio. It is not perfectly reliable, but just to prevent eavesdropping. Only in the same encryption type and the same key value, can the radio encode the transmitting signal and decode the encrypted call.
Normal encryption - Users are allowed to pre-edit 16 groups at most. Encryption length allows you enter 4 bytes, includes numbers and characters. If the encryption type of the two

radios is different, the voice heard will be unclear.

Enhanced encryption - Users are allowed to pre-edit 16 groups at most. Encryption length allows you enter 32 bytes, includes numbers and characters. If the encryption type of the two radios is different, the voice heard will be unclear or no voice will be heard at all.

Note: This option is only valid for digital mode. Please obey the local law.

Channel

					Chann	el Informa	ation				
	CH No.	RX Frequency	TX Frequency	Channel Type	Dec QT/DQT	Enc QT/DQT	TX Power	Scan Add	Bandwidth	CHAlias	More
	VFO-A	146.91000	146.91000	Analog CH	None	None	Low	-	25K	[>>
Import	VFO-B	442.37500	447.37500	Analog CH	None	None	High		25K		>>
	1	146.43000	146.43000	Analog CH	None	None	High	Yes	25K	146.43 SIMPLEX	>>
Export	2	146.46000	146.46000	Analog CH	None	None	High	Yes	25K	146.46 SIMPLEX	>>
	3	146.49000	146.49000	Analog CH	None	None	High	Yes	25K	146.49 SIMPLEX	>>
	4	146.52000	146.52000	Analog CH	None	None	High	Yes	25K	146.52 CALL	>>
	5	146.55000	146.55000	Analog CH	None	None	High	Yes	25K	146.55 SIMPLEX	>>
Up	6	146.58000	146.58000	Analog CH	None	None	High	Yes	25K	146.58 SIMPLEX	>>
	7	147.42000	147.42000	Analog CH	None	None	High	Yes	25K	147.42 SIMPLEX	>>
Down	8	147. <mark>4</mark> 5000	147.45000	Analog CH	None	None	High	Yes	25K	147.45 SIMPLEX	>>
	9	147.48000	147.48000	Analog CH	None	None	High	Yes	25K	147.48 SIMPLEX	>>
Insert	10	147.51000	147.51000	Analog CH	None	None	High	Yes	25K	147.51 SIMPLEX	>>
	11	147.54000	147.54000	Analog CH	None	None	High	Yes	25K	147.54 SIMPLEX	>>
sert copy	12	147.57000	147.57000	Analog CH	None	None	High	Yes	25K	147.57 SIMPLEX	>>
	13	446.00000	446.00000	Analog CH	None	None	High	Yes	25K	446.00 CALL	>>
Delete	14	446.50000	446.50000	Analog CH	None	None	High	Yes	25K	446.50 SIMPLEX	>>
	15	446.70000	446.70000	Analog CH	None	None	High	Yes	25K	446.70 SIMPLEX	>>
Clear	16	146.80500	146.20500	Analog CH	None	107.2	High	Yes	25K	146.805 WD9HSY	>>
	17	147,13500	147,73500	Analog CH	None	107.2	High	Yes	25K	147.135 W9YPC	>>

The radio supports to save 3000 channels. It supports import, export, up, down, insert, clear, delete.

VFO-A, VFO-B, it is frequency mode. The values is the default settings when you turn on the radio. You can edit

them on the radio. Click >> to open the detailed channel setting.

Channel Type:	Digital CH	•	Channel Alias:	146.43 SIMPLE.
TX Power:	High	-	RX Frequency:	146.43000
Time Out Timer(s):	180	-	TX Frequency:	146.43000
VOX Level:	1	•	VOX:	Г
Scan Add:			Default to Talkaround:	
Channel Work Alone:			Delaures Faindround.	

Channel Type - Analog and Digital TX Power - 3 levels, high10/8w, Middle 3.5w, Low 1w. Time out Timer(s) - The longest time you can transmit once you press the PTT.

VOX level - higher more sensitive, (Only workable when the VOX is turned on)

Scan Add - Checked means add it to scan list. (*Note: The radio scan as zone list, no real scan list. When we select one zone, it will scan the channel which checked the Scan Add. HD1 has all channels(no zone), when we check all channels, It will scan all the channels, even we don't check the scan add.*)

Channel work alone - Check means turn on the work alone.

Channel Alias - Edit the channel name. RX Frequency - Receive frequency TX Frequency - Transmit frequency

VOX - checked means turn on the VOX in the channel.

Default to Talkaround - Checked it means it is simplex mode. Even you have set the offset, only check it, your transmit frequency is same as receive frequency.

21

Work Mode: Si	mplex	<u> </u>	RX Group Lists: list1
Slot: SI	ot1	•	Encryption:
ID Setting: N	9KGH	-	Encryption Type: Normal Moc
Colour Code: 0		-	Encryption Key: 1
TX Authority: Pr	ohibit TX	-	Promiscuous:
Kill Code: N	one	-	Contacts: None
WakeUp Code: N	one	•	

Digital Data

Here can be edited only when you select the digital in the channel type. Work Mode - Simplex, Repeater, Double Slot means DCDM, it makes time slot work in simplex

mode.it support two conversations on the same channel in simple mode.

Slot - Time Slot

ID Setting - Select one ID you have saved

Color Code - 0-15 for choice.

TX Authority - Prohibit TX, Always, Color Code, Channel free

Kill Code - None or select the contact you want to remote kill

WakeUp Code - None or select the contact you want to remote wakeup.

RX Group List - you can choose the list you have saved, or you can choose Custom. They have same function. When you choose the custom, you need to edit the RX Group List in the channel below. In fact the Custom use less when you programming the radio on CPS. It is very useful when you programming the radio via radio keypad.

Encryption - Checked means turn on the encryption

Encryption Type - Select Normal mode or Enhanced mode

Encryption Key - Select the Encryption number you want to use

Promiscuous - Checked will allows the radio to pick up activity on any active talk group as long as you

have the frequency and colour code in the channel.

Contacts - Select the priority or address book first, then select the Specific contact.

GPS

GPS		
GPS:	\checkmark	
Send GPS Info:	Γ	
Receive GPS Info:		
GPS Timing Report(s):	OFF	•
GPS Timing Report TX Contacts:	TX Contact	-

GPS - open the GPS function.

Send GPS info - Send the GPS to another radio after you press the PTT.

Receive GPS info - your radio allows receive the other radio's GPS information.

GPS timing report - How long you radio send GPS info to another radio.

GPS Timing Report TX Contacts - The contact that the GPS information send to



Analog Data

Here can be edited only when you select the analog in the channel type.

Bandwidth - 25K and 12.5K are selectable

Dec QT/DQT - It means receive CTCSS/DCS, only when you don't want to receive non CTCSS/DCS or

different CTCSS/DCS signals, you can set it. Dec QT/DQT will help you filter some signals. If you want to

listen more voice, You don't need to set it, just keep it as none.

Enc QT/DQT - It means transmit CTCSS/DCS.

TX Authority - Allows TX, Channel Free, Prohibit TX

Relay - Checked it to make sure the channel is repeater mode.



Note: Only when you select the Custom, the below RX Group Lists is available. We seldom use this place. It

mainly for the FPP(Front Panel Programming).

RX Group Lists

Ė---(

list1

DMR Service

Encryption

one In	formation			Z	one Inforr	na	tion - 1					
			0	Available Char	nels				Selected Chai	nnels		
one	Zone Alias		CH	CH Alias	Channel Type	-	[СН	CHAlias	Channel Type	•	
1	SIMPLEY		16	146.805 WD9HSY	Analog CH			1	146.43 SIMPLEX	Digital CH		
2	Chao 2 EM PPTP		17	147.135 W9YPC	Analog CH			2	146.46 SIMPLEX	Analog CH		
2	Chigo 2 FM RFTR		18	146.64 W9SRC	Analog CH			3	146.49 SIMPLEX	Analog CH		
3	Crigo 70 FM RPTR		19	147.195 W9FXT	Analog CH			4	146.52 CALL	Analog CH		
4	Chgo Area DMR		20	147.045 KA9QJG	Analog CH			5	146.55 SIMPLEX	Analog CH		
5	W9CTO UHF		21	147.24 W9LJ	Analog CH		ĺ	6	146.58 SIMPLEX	Analog CH		
6	W9CTO VHF		22	145.21 WB9IRL	Analog CH		1	7	147.42 SIMPLEX	Analog CH		
7	Zone7		23	146.835 WB9VRG	Analog CH		İ	8	147.45 SIMPLEX	Analog CH		
8			24	145.45 W9FXT	Analog CH			9	147.48 SIMPLEX	Analog CH		
9			25	146.70 W9EMA	Analog CH			10	147.51 SIMPLEX	Analog CH		
10			26	147.00 W9LJ	Analog CH			11	147.54 SIMPLEX	Analog CH		
11			27	147.30 WD9AZK	Analog CH		mb	12	147.57 SIMPLEX	Analog CH		
12			28	146.82 W90FR	Analog CH			13	446.00 CALL	Analog CH		
13			29	145.25 KB8LWY	Analog CH			14	446.50 SIMPLEX	Analog CH		
14			30	145.19 W9ANL	Analog CH		-	15	446.70 SIMPLEX	Analog CH		4
15			31	147.33 K9BAR	Analog CH							
16			32	146.97 K9ONA	Analog CH							
17			33	147.15 W9SR0	Analog CH		Ì					
8			34	146.85 WA9DZO	Analog CH	8						
0			35	146.88 K9GFY	Analog CH							
9			36	146.73 K9QKW	Analog CH							
0			37	145.49 WB9UGX	Analog CH		Ì					
1			38	442.375 WA9WLN	Analog CH	8						
2			39	443.275 N9ZD	Analog CH				0			
3			40	444.55 W9WIL	Analog CH	8						
24			41	443.325 WD9HSY	Analog CH							
25		-	42	442.675 W9SRC	Analog CH							
-	1 1 1		43	444.775 WA9PAC	Analog CH							
Add	- Del 👚	+	44	442.20 W9FXT	Analog CH	Ŧ					-	

Zone Information

This option allows users to organize channels conveniently. Supports save 256 zones. Every zone supports up to 64 channels. If more than one zone is programmed into the radio, the user can change the zone via menu. The zone support up and down the sorting. Zone Alias - The Zone alias allows the user to define a unique name for each Zone. The

maximum length is16 characters.

Available Channels - The table displays the available channels for you to add into a zone. Available channels are related to the channels in the radio.

Selected Channels - The table displays existing channels in the current zone.

	Ra	dio
dio CH		Radio Setup
CH No.	Frequency(MHz)	Radio DW: OFF
VFO	97.10	Work Mode: VEO
1	88.50	
2	89.30	Work CH: 1
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		- 1

FM broadcast. The frequency is 76-107.95MHz(Receive only). Radio Channel -

Total 32 memory channels. Users can write every channel frequency directly.

Radio Setup -

Radio DW, "ON" indicates that listening to FM broadcast while receiving signals, "OFF" indicates that listening to FM broadcast while stop receiving signals. Most times we may choose "ON", because we don't want to miss any voice signals from the other

side of the radio.

Work Mode - VFO is frequency mode, CH is channel mode. It is the default mode when you enter the FM broadcast.

Work CH - The default channel when you enter into the FM broadcast channel mode.

PowerOn Logo	×	Power On Logo				
	Open	Set up a unique power on picture -				
Ailungo	Read	Make a photo you want to display when turn on radio.				
Allunce		Size:160*128				
	Write	Bit depth:24				
Completion percentage	: 0%	Form:BMP				

Left top of the software, Function >> Power On Logo >> Open >> Write

Restore the original pictures -

Open the software, Left top of the software, Function >> Power On Logo >> Write. No need to click the Open. The

original picture is build in the software.

Upgrade the Firmware

Version Information Please click Get Version	ICONO.	Connect	1	0.14
ersion Information Please click Get Version		Disconnect		Get Version
Please click Get Version	ersion Information-			
		Please click	c Get Version	

Step1:Download the newest firmware and install it. Step2:Connect the radio and computer with programming cable. Step3:Press PTT and Side key 1, turn on the radio at same time. Make sure the radio enter into DFU mode. Step4:Open the firmware,check the COM first.

Step5:Click the Connect

Step6:Click Get Version (If it always prompt error, you can skip this step)

Step7:Click Update

Step8:Click Disconnect

Note: When it prompt can't connect, please check the COM and the driver. Sometimes the new firmware improves lots of functions or adds some new functions. After upgrading the firmware, you need to initialize your HD1 to make sure all the data is compatible.

Initialize the radio



Press the MENU and EXIT, turn on the radio at the same time, then select ALL to start to initialize.

Note: Initialize the radio is equivalent to restoring factory settings. So before you initialize the radio, you can save the codeplug first.