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Talkpod is committed to developing products that help protect the environment.



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A36 Dual Band Transceiver User Manual

Thanks for your favor in our product.
This manual is helpful for you to quickly know how to use the product.

This manual is applicable to the following product:
A36 Dual Band Transceiver

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General information

Preface

Thanks for your favor in our product. This manual is helpful for you to quickly know how to use the product.

This manual is applicable to the following product: B3X PMR446 Portable Radio (X may represent 0–9)

Disclaimer

Talkpod Technology Co., Ltd. (the Company) endeavors to achieve the accuracy and completeness of this manual, but no warranty of accuracy or reliability is given.

All the specifications and designs are subject to change without notice due to continuous technology development. No part of this manual may be copied, modified, translated, or distributed in any manner without the express written permission of us.

We do not guarantee, for any particular purpose, the accuracy, validity, timeliness, legitimacy or completeness of the Third Party products and contents involved in this manual.

If you have any suggestions or would like to learn more details, please visit our website at www.talkpod.us.

RF Radiation Information

The radio is not intended for use by general population in an uncontrolled environment. It is only for occupational use and only applied to work-related conditions.

The radio must be only used by users, who are fully aware of the hazards of the exposure and who are able to exercise control over their RF exposure to qualify for the higher exposure limits.

RF Radiation Profile

Radio Frequency (RF) is a frequency of electromagnetic radiation in the range at which radio signals are transmitted. RF technology is widely used in communication, medicine, food processing and other fields. It may generate radiation during use.

RF Radiation Safety

In order to ensure user health, experts from relevant industries including science, engineering, medicine and health work with international organizations to develop standards for safe exposure to RF radiation. These standards consist of:

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J;
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992;
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1 – 1999;
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998;

Operational Instructions and Training Guidelines

To ensure optimal performance and compliance with the occupational/controlled environment RF energy exposure limits in the above standards and guidelines, users should transmit no more than 50% of the time and always adhere to the following procedures:

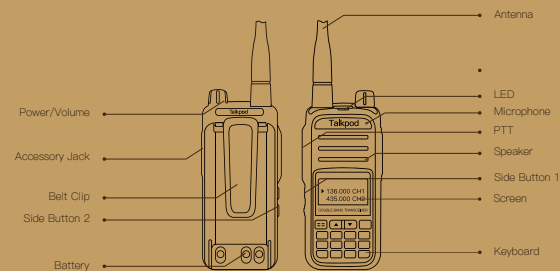
- RF energy will be generated only when the radio is transmitting.
- The radio must be 2.5 centimeters away from human body when transmitting.

EU Regulatory Conformance

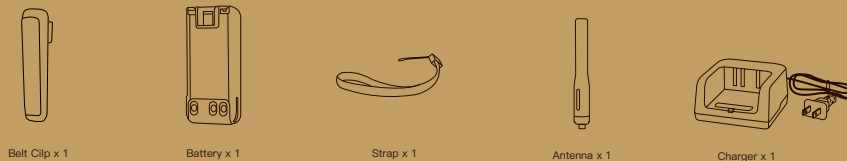
As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC.

Please note that the above information is applicable to EU countries only.

1. Radio Structure



2. Radio Packing



3. Button Details

NO	Icon	Name	Description
1		LED Light	Green: RX Red: TX
2		PTT	Press to Talk
3		Side Button 1	Programmable Side button
4		Side Button 2	Programmable Side button (Better use Long press S2 for SOS)
5		Accessory Jack	For Headsets, Program Cable
6		Power Knob	Turn clockwise to power on and increase the volume Turn counterclockwise to power off the power and decrease the volume
7		SOS button on the top	One click on SOS alarm
8		Keyboard	Multifunction keyboard

4. Specifications

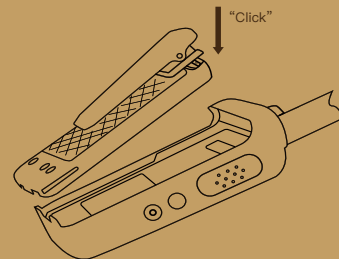
Regular	
Model Name	A36-M7B4UV1 A36-M7B4UV2
Frequency Range	RX 136-174MHz 400-470MHz
	RX 136-174MHz 245-248MHz
	TX 136-174MHz 400-470MHz
	TX 136-174MHz 245-248MHz
	FM Broadcast 76-108MHz
	FM Broadcast 76-108MHz
Power	5W 0.5W
Number of channels	400
Work Mode	Analog
Frequency Stability	±2.5ppm
SOS Alarm	1
Weight	210g
Size	108*52*28(mm)
Program Key	2
Antenna Type	UHF 400-470/136-260 Antenna
Battery	Standard 2000mAh, 7.4V
Antenna Impedance	50Ω
IP Rating	IP54
Working Temperature	-30°C - +60°C

The above specifications are tested according to applicable standards. Due to the continuous development of technology, the above index data is subject to change without notice.

Receive	
Receiving sensitivity	<0.20uv(12dB SINAD)
Squelch sensitivity	<0.2uV
Intermodulation anti-interference	65dB
Audio distortion	<5%
Audio power	1W
Receive current	<380mA
Audio Response	+1 - -3dB
Clutter resistance	≥65dB

launch Part	
Emission current	≤1.3A
Maximum deviation frequency	≤5KHz/≤2.5KHz
Stray power	≤ 7.5uW
Adjacent channel power	≤-65dB
QT/DQT Frequency deviation	0.7± 0.1KHz/0.4±0.1KHz
Signal-to-noise ratio	≥-45dB/≥-40dB
Modulation sensitivity	8-12mV
Output Power	5W/2W

5. Attach Battery



Note

- Turn off the radio before removing the battery.
- If not assembled with battery specified by Talkpod, the radio will give alarm tone to remind you when powering on. Afterwards, it will operate normally.

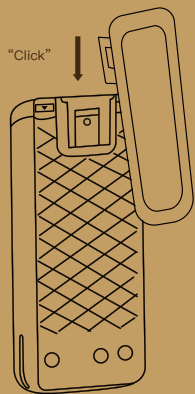
6. Assemble Antenna



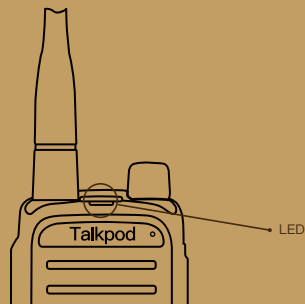
Note

- Do not swing the radio when holding it by the antenna, so as to avoid lowering the performance and shortening the life span of the antenna.

7. Assembling the Belt Clip

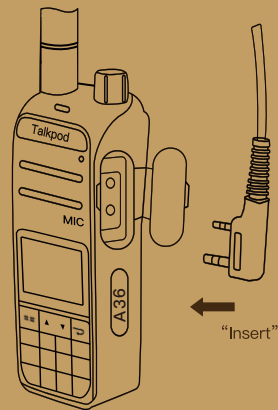


8. LED Indicator

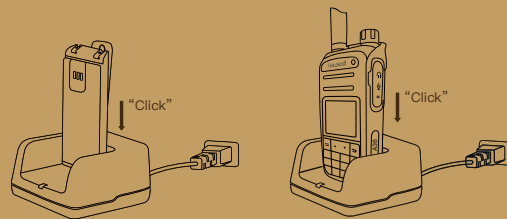


LED Status	Product Status
Steady Green	Receiving
Steady Red	Transmitting

9. Assembling the Accessories



10. Charge the radio



Charging Status		
* Blinking Red	- [Red LED] -	Unchargeable Waiting to charge.(Either the battery Voltage is too low or the battery temperature is too low or too high to allow charging.When this condition is corrected,the battery will automatically begin charging.)
* Blinking Orange	- [Orange LED] -	
• Steady Red	- [Red LED] -	Rapid Charging
* Blinking Green	- [Green LED] -	Charged(90% capacity)
• Steady Green	- [Green LED] -	Fully Charged

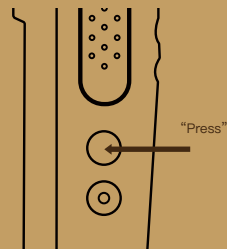
11. Powering On/Off



12. Button Details



14. Side Buttons



According to different models and user habits, side buttons can be set to group/member/friend selection,SOS or to broadcast current groups.

15. PTT Button



In different interfaces,press PTT button to make group call,single call, private call.

16. A36 menu description

No	Function function	Secondary menu	Setting instructions
1	SQL	0, ..., 9	The lower the squelch level, the easier it is to interfere, the higher the level, the worse the sensitivity, and the setting should be moderate
2	STEP	2.5K	In the frequency mode, press the up and down keys to change the step value of the frequency
		5K	
		6.25K	
		10K	
		12.5K	
		20K	
		25K	
		30K	
50K			
3	MAMCH	000,...,256	Indicate the channel number to be stored while store channel. If 'CH' in front of number means this channel already has a channel parameter.
4	DELCH	000,...,256	Delete the channel parameters of the specified channel. If there is no CH— means that the channel has no parameters and the operation is invalid.
5	R-CTCSS	OFF	None DCS
		67.0HZ,...,254.1HZ	Standard CTCSS. Input standard or nonstandard CTCSS via keypad.
6	R-DCS	OFF	None DCS
		D023N,...,D754I	Standard DCS
7	T-CTCSS	OFF	None CTCSS
		67.0HZ,...,254.1HZ	Standard CTCSS. Input standard or nonstandard CTCSS via keypad.

No	Function function	Secondary menu	Setting instructions
8	T-DCS	OFF	None DCS
		D023N,...,D754I	Standard DCS
9	VOICEPRI	OFF	
		Encryption 1	
		Encryption 2	
		Encryption 3	
		Encryption 4	
10	CH-NAME	COMMOM NAME LIST	
11	TXP	HIGH	High Power Transmitting
		LOW	Low Power Transmitting
12	SAVE	OFF	Off Battery Saving
		1	Off Battery Saving
		2	Normal Saving
13	ROGER	3	Super Saving
		OFF	Turn Off
		ON	Turn On
14	TOT	30,60,...,480s	The number is from 30 to 480s, and the maximum time for PTT transmission is indicated in 30s steps.

No	Function function	Secondary menu	Setting instructions
15	VOX	OFF	Turn off VOX function, transmitting without PTT pressing.
		1,2,...9	Activate the sound pressure intensity of voice control, level 1 is the most sensitive.
16	W/N	WIDE	Wide mode
		NARR	Narrow mode
17	VOICE	OFF	Turn off voice prompt
		ON	Turn on voice prompt
18	BEEP	OFF	Turn off operation prompt
		ON	Turn on operation prompt
19	LANGUAGE	ENGLISH	English
		CHINESE	Chinese
20	BCL	OFF	OFF
		ON	ON
21	ABR	ON	Background light is always on.
		5s,10s,...3min
22	OFFSET	00.000,...,99.995	In frequency mode, the difference between the transmitting and receiving frequencies.

No	Function function	Secondary menu	Setting instructions
23	SC-REV	TO	Time scanning, the walkie-talkie pauses scanning when it detects a signal, and after staying stopped for about 5 seconds, the walkie-talkie will continue scanning even if the signal is still there.
		CO	Carrier scanning, the two-way radio pauses scanning when a channel is detected and keeps it on the same frequency until the signal disappears. There is a 2 second delay between the disappearance of the signal and the resumption of scanning to allow time for the response to begin transmission.
		SE	Search scanning, the walkie-talkie exits scanning when it detects a signal and stays at this frequency.
24	PF2		
25	PF2 LONG PRESS		
26	PF3		
27	SFT-D	OFF	In frequency mode, turn off the difference between the transmitting and receiving frequencies.
		+	In frequency mode, the TX frequency=RX frequency plus frequency difference
		-	In frequency mode, the TX frequency=RX frequency minus frequency difference
28	SCAN CTCSS		

No	Function function	Secondary menu	Setting instructions
29	SCAN DCS		
30	CDCSS SAVE MODE	ALL	ALL
		RX	Receiving
		TX	Transmitting
31	POWER ON MSG	LOGO	Photo
		VOL TAGE	Battery voltage
32	ANI NAME	NUM1...NUM60	No.1---No.50 radio. The radio name of 51-60 can be set
33	S-CODE	1,2,3...15	
34	DTMF CODE	OFF	Turn off
		BOT	Press PTT to transmitting DTMF
		EOT	Release PTT to transmitting DTMF
		BOTH	BOTH
35	AUTOLK	OFF	Turn off auto keypad lock
		5s,10s,...3min	Turn on the keypad timing automatic lock function

No	Function function	Secondary menu	Setting instructions
36	DTMFST	OFF	No DTMF prompt when press key to transmitting DTMF
		DT-ST	DTMF prompt when press key to transmitting DTMF
		ANI-ST	DTMF prompt when automatically transmitting DTM
		DT+ANI	DTMF prompt when automatically transmitting DTMF and press key to transmitting DTMF
37	SCAN ADD		
38	TONE	1000,1450,1750,2100Hz	
39	PTT-LT	0,100,...,1000	Delay time before automatic DTMF transmitting
40	MENU EXIT TIME	5,10,...60s	Control the time of menu automatically exit
41	VOX DELAY	0.5SEC.....2.0SEC	Due to the delay of the repeater, noise appears when receive instant signal.
42	RP_STE	OFF	OFF: Adjust to eliminate the tail. If want to ensure if the repeater is work or not, set OFF.
		1,2,3,4,5,...10s	
43	RPT-RL	OFF	OFF: Adjust the length of time the tail sound appears, if not needed, set it to off.
		1,2,3,4,5,...10s	

No	Function function	Secondary menu	Setting instructions
44	VOX	OFF	Turn off
		ON	Turn on
45	W/N	FREQ	A band displays as frequency in channel mode
		CH	A band displays as channel in channel mode
		NAME	A band displays as channel name in channel mode
46	BEEP	ON	Turn on voice prompt
		OFF	Turn off operation prompt
		ON	Turn on operation prompt
19	LANGUAGE	ENGLISH	English
		CHINESE	Chinese
20	BCL	OFF	OFF
		ON	ON
		30S,...,270S	Numbers from 30 to 270 in 30s steps,which mean Indicates the maximum time to transmit when the PTT key is pressed
		0.3、0.5、1、1.5、2、3S	When the voice control is turned on, the working time delay of the voice control can be set

No	Function function	Secondary menu	Setting instructions
20	VOX-G	OFF	Turn off voice control. When it is turned on, it can be launched without pressing PTT
		1,...,9	The sound pressure intensity of starting voice control is 9 levels in total. The higher the level is set, the less sensitive it is. It is recommended to set it in the middle
21	CALL	1000, 1450, 2100, 1750	Press PTT + side key 2 to turn on the local pulse audio and send a frequency such as 1750hz
22	AUTOLK	Manual	Manually press the keyboard lock button to unlock or lock
		5S, ..., 70S	Set at 30s, when there is no operation in 30s, the keyboard is locked
23	PON-MSG	ALL	Boot screen full display
		DC	The startup screen displays the voltage value of the current battery
24	BEEP	OFF	turn off the warning tone
		ON	turn on the warning tone
25	LANGUAGE	Chinese	Language Chinese display
		English	Language English display

17. Product Care



Do not pierce or scrape the product with any edged instruments or hard objects.



Keep the product far away from substances that can corrode the circuit.



Do not hold the product by its antenna directly.



Do not hold the product by its earpiece cable directly.



Attach the accessory jack cover when the product is not in use. Keep the product far away from substances that can corrode the circuit.

18. Troubleshooting

Phenomena	Analysis	Solution
Power-on Failure	The battery may be improperly installed.	Remove the battery and reassemble it.
	The battery power may be used up.	Remove or replace the battery.
	The battery is poorly connected due to dirtied or damaged battery contacts.	Clean the battery contacts. If the problem cannot be solved, contact your dealer or authorized service center for inspection and repair.
During receiving, the voice is weak, discontinuous or totally inactive.	Low battery voltage.	Recharge or replace the battery.
	Low volume level.	Increase the volume by rotating the Volume Control knob.
	The antenna may be loosened or improperly installed.	Reassemble the antenna after turning off the radio.
	The speaker may be blocked or damaged.	Clean the surface of the speaker. If the problem cannot be solved, contact your dealer or authorized service center for inspection and repair.
Unable to communicate with other members.	The frequency or signaling may be inconsistent with that of other members.	Set your TX/RX frequency and signaling to the same as that of other members.
	The channel type(digital/anaiog)may be set inconsistently.	Make sure all members are on the same digital/analog channel.
	You may be interrupted by radios using the same frequency.	Change the frequency, or adjust the squelch level.


Phenomena	Analysis	Solution
Irrelevant communication or noise is heard on the channel.	You may be interrupted by radio using the same frequency.	Change the frequency, or adjust the squelch level.
	The radio may be set with no signaling.	Set signaling for all member radios to avoid inference at the same frequency. And change the signaling settings for all portable radios at the same time.
The noise is too loud.	You may be too far away from other members.	Move towards other members.
	You may locate in an unfavorable position. For example, your communication may be blocked by high buildings or frustrated in the underground areas.	Move to an open and flat area, and restart the radio to try again.
	You may suffer from external disturbance (such as electromagnetic interference).	Stay away from equipment that may cause interference.


19. Optional Accessories


The following items are main optional accessories for the radio. For more information of other accessories, please consult your local dealer.


Note


Use the accessories specified by Talkpod only. If not, the Company shall not be liable for any losses or damages arising out of use of unauthorized accessories.


Charger	
	3 series standard desktop charger / 3.7V-7.4V / DC12V input
	3 series integrated desktop charger / 7.4V / AC220V input

Antenna	
	Digital / analog UHF short antenna / 400-470MHz / black mark
	Digital / analog UHF long antenna / 400-470MHz / black mark
	Digital / analog UHF built-in GPS short antenna / 400-470MHz / black label
	Digital / analog VHF long antenna / 136-174MHz / black mark
	Digital / analog UHF long antenna / 450-470MHz / black mark
	Digital / analog UHF long antenna / 350-400MHz / black mark
	Analog UHF long antenna / 400-480MHz / orange standard


Protective case	
	Semi-packed nylon cover / adhesive type / with oblique lanyard / small
	Semi-packed leather holster / button type / oversized iron back clip / with diagonal strap / medium
	All-inclusive leather holster / button type / thick leather pattern / with diagonal strap / large
	Wearable chest bag protector / all black
	Wearable chest bag protective cover / fluorescent strip
Waterproof bag	

Data line / write frequency line	
	Universal K head dual hole USB to serial port programming cable / N4 / N5 / D4 / B3 universal
	USB to Micro cable / OD3.8PVC / common to all series

Headset	
	2-Wire Earloop with On-MIC PTT
	2-Wire D-Ring Earphone with On-MIC PTT
	2-Wire Acoustic Tube with On-MIC PTT
	Earloop with In-line Microphone
	D-Ring Earphone with In-line Microphone
	Acoustic Tube with In-line Microphone
	3-Wire Acoustic Tube Surveillance Kit (Black)
	Rotatable ear-hook type oval clip PTT headset
	Right earhook type oval clip PTT headset
	C-type ear-hook oval clip PTT headset
Ear hook + earplug type oval clip PTT headset	

Multi-channel charger	
	3 Series Inline Desktop Six-way Charger / 14V3.5A
	3 Series 3X2 type6 Slots Charger 14V3.5A-7.4V

Back clip	
	2 Series / 3 Series Belt Clip / Spring Type / 7CM

Hand microphone	
	Speaker Microphone
	Speaker Microphone With Volume Control

Power Adapter	
	Power adapter / 12V2A / GB
	Power adapter / 12V2A / European regulations
	Power adapter / 12V2A / British regulations
	Power adapter / 12V2A / Australia regulations
	Power adapter USB interface / 5V2A
	Power adapter USB interface / 5V1A
	Power adapter / 12V1A / GB
	Power adapter / 12V1A / European regulations
	Power adapter / 12V1A / British regulations
	Power adapter / 12V1A / Australia regulations