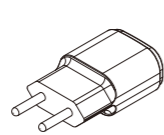


X1 pro Radio User Manual

Thanks!

Thanks for choosing ABELL series Two-way radio, we believe it is a wise choice to choose us because we have the latest technology, the most stable components, the most advanced production technology. ABELL series Two-way radio will provide you with a reliable performance and high quality you demand. This manual is for ABELL X1 pro

Accessories



Power Adapter



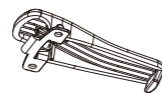
Li-ion Battery



Lanyard



Programming cable



Belt Clip

Preparing to use the radio

Direct charging

When charging directly, please make sure to use standard power charger.

Indicator status when charging

When charging, please check the indicator status.

Indicator	Charging status
Flash red	Waiting to charge
Steady red	During charging
Steady green	Charge complete

Installing/Uninstalling the Battery

Press down on the battery after aligning the battery tabs with the aluminum housing slots; to remove the battery, turn the radio off, then pull down on the release valve and remove the battery pack from the radio.

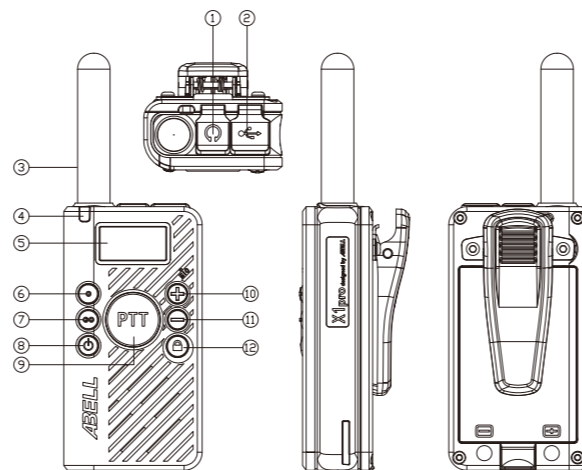
Installing/Uninstalling the Belt Clip

Lock the belt clip on the upper rear side of the radio with two screws until the two screws are tightened; if you want to remove the belt clip, use a screwdriver to remove the two screws on the belt clip.

Installing the External Speaker/Microphone

Plug the external speaker/microphone connector into the SP/MIC connector.

Key operations

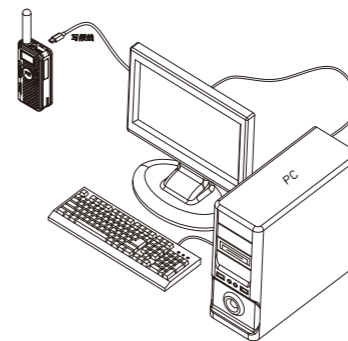


NUM	Description	NUM	Description
1	SP/MIC	7	Channel decrease
2	Read/Write Frequency Interface Type C USB Jack	8	Power ON/OFF
3	Antenna	9	PTT
4	Indicator light	10	Volume increase
5	Display	11	Volume decrease
6	Channel increase	12	Lock key(Long press to lock/unlock)

Functions

Read/Write Frequency

When read/write frequency, open the correct software, the communication port must be **no bigger than port 16** in order to read/write frequency correctly, if the port number is bigger than 16, then user needs to manually modify the port number, to ensure that the port control is within port 16.



Reading:

When reading frequency, the indicator light flashes red, and the progress bar of reading in programming software increases.

Successful frequency reading: After successful frequency reading, the radio will restart automatically, and the software prompts "successful frequency reading".

Frequency reading error: when the frequency reading is wrong, the radio will not restart automatically, and the orange light is flashing, and there will be a "beep" sound, and the software will prompt an error message, according to which you can judge the reason of the frequency reading error.

Writing:

When writing frequency, the indicator light flashes green, and the progress bar of reading in programming software increases.

Successful frequency writing: After successful frequency reading, the radio will restart automatically, and the software prompts "successful frequency writing".

Frequency writing error: when the frequency writing is wrong, the radio will not restart automatically, and the orange light is flashing, and there will be a "beep" sound, and the software will prompt an error message, according to which you can judge the reason of the frequency writing error.

Power On/Off

Power On: When the device is off, press the power button to turn on the screen and enter the power-on interface.

Power Off: When the device is on, press the power button to turn off the screen and power off the device.

Channel Switching

When you need to communicate on a specific channel, press the Channel + or Channel - button briefly to switch to the designated channel, followed by a channel announcement sound.

Communication Operation

Switch to the desired channel:

Transmit: Press and hold the PTT (Push-to-Talk) button, position your mouth about 2 cm from the MIC, and speak into the MIC.

Receive: When a carrier signal is received, the indicator light will turn green and remain on, and the speaker will emit sound.

Sound Settings

Press the Volume + button briefly to increase the volume, or press the Volume - button briefly to decrease the volume.

TOT Parameter

When the user configures an effective TOT (Time-Out Timer) in the frequency programming parameters, the radio will stop transmitting immediately and prompt the user to enter the TOT transmission prohibition state if the transmission exceeds the configured TOT time.

Timeout Transmission Prohibition Time:

This setting defines the maximum continuous transmission time allowed for the radio. Once the preset timer expires, the radio will emit a warning sound and stop transmitting.

Range: (0 is to disable this function) 0-360 seconds

Step value: 10 seconds

Default value: 60 (0 means disabled)

Safety and Convenient Operation Specifications

This document provides information and operating guidelines for the safe and convenient use of ABELL portable two-way radios.



For information on using radios in hazardous environments, please refer to the manufacturer's approved operation manual or instruction card. Radios with this functionality will include such an instruction card. To ensure you remain within the safety exposure limits for radio frequency electromagnetic energy as allowed by the standards and guidelines above, please follow the operational procedures below.

Portable Radio Operation and Electromagnetic Field Exposure

When the portable radio is transmitting, keep the radio in a vertical position and maintain a distance of 2.5-5 cm (1-2 inches) between the microphone and your mouth. When transmitting, also ensure the radio's antenna is at least 2.5 cm (1 inch) away from your head or body. If you wear the portable radio on your body, ensure that the transmitting antenna is at least 2.5 cm (1 inch) away from your body.

Electromagnetic Interference / Electromagnetic Compatibility

Note: Without proper electromagnetic compatibility protection and internal structural design for electromagnetic compatibility, nearly all electronic devices will be affected by electromagnetic interference (EMI).

To avoid problems caused by electromagnetic interference or electromagnetic compatibility, please pay attention to any areas with signs indicating "Please turn off the radio," and comply with these requests, such as in hospitals and other healthcare facilities where some equipment is highly sensitive to radio frequency energy.

If the flight crew asks you to turn off your radio while on an airplane, please comply. When using a radio on a plane, always follow the airline's rules and crew instructions.

Operational Warnings

Vehicles with Airbags

Do not place the portable radio above or within the area that could be impacted when the airbag deploys. In the event of a rapid airbag deployment, the radio could be propelled with significant force and cause injury to the occupants of the vehicle.

Potential Explosive Atmosphere

If you are in an environment or situation with a potential explosive atmosphere, turn off the radio, unless your radio is a special model with specific certifications (e.g., Atex, FM or Cenelec certified). In a potential explosive atmosphere, electrical sparks can lead to explosions or fires, causing injury or even death.

Batteries

Do not replace or charge the battery in a potential explosive atmosphere, as installing or removing the battery could cause electrical sparks, leading to an explosion.

Batteries in Blasting Zones and Areas with Detonators

When near a blasting zone or an area containing detonators, turn off your radio beforehand to avoid potential explosions. Always comply with regulations in "blasting zones" or any other areas marked with "Please turn off the radio."

Note: The potential explosive atmosphere mentioned above includes fuel areas such as: the lower decks of ships; fuel or chemical transport vehicles or storage areas; areas with chemicals or dust in the air; and any other areas where you are usually reminded to turn off your vehicle engine. These environments typically have clear warning signs, but they may not always be present, so please be cautious.

Timeout Transmission Prohibition Pre-warning Time:

This setting allows you to specify how long before the TOT timer expires the radio will emit a "warning sound." After the warning sound is heard for the specified time, the TOT timer will expire.

Range: Off (0) / 1-60 seconds

Step value: 1 second

Default value: 0 (0 means disabled)

Timeout Transmission Prohibition Re-press Time:

This setting defines the time from when the transmission prohibition starts (when the TOT timer expires) until transmission is allowed again.

If this time has not yet elapsed, pressing the PTT will result in a transmission prohibition warning sound.

Range: Off (0) / 1-60 seconds

Step value: 1 second

Default value: 0 (0 means disabled)

Timeout Transmission Prohibition Reset Time:

Before the TOT time expires, if a transmission occurs within the TOT reset time, the timer will continue counting. Otherwise, the timeout counter will reset to 0.

Range: Off (0) / 1-60 seconds

Step value: 1 second

Default value: 0 seconds (0 means disabled)