K-12
Walkie Talkie
User Guide
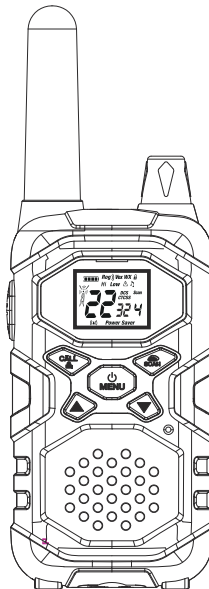
US

1. Antenna
2. Volume Knob
3. Backlit LCD Display
4. NOAA/Scan Button
5. Down Button
6. Microphone
7. Speaker
8. External Speaker/
   Microphone/USB
   Charge Jack
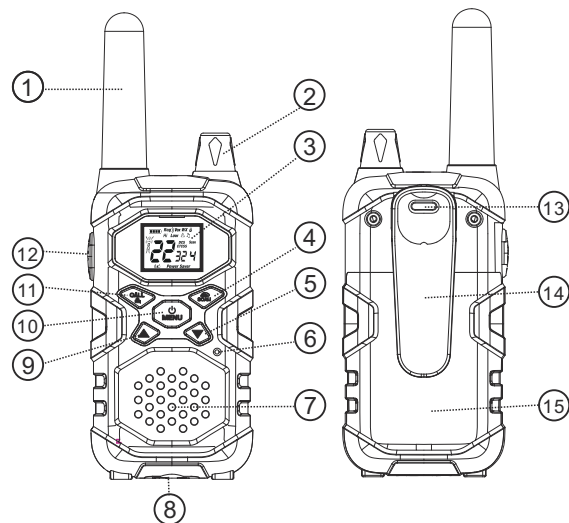
9. Up Button
10. Menu/Power Button
11. Call/Lock Button
12. PTT(Pull to talk) Button
13. Wrist Strap Connection
14. Belt Clip
15. Battery Compartment

Product Features

TECHNICAL PARAMETERS	
Product number	K-12
Frequency range	FRS
Channel number	22
Channel spacing	12. 5KHz
Working voltage	4.5V
Frequency stability	2. 5ppm
Operating temperature range	-10℃~40℃
The antenna impedance	50Ω
Overall dimensions	165*57*41mm
Weight	120g

TRANSMITER	
Rf power	2.0W
Modulation method	F3E
Noise and harmonic	-40dB
Residual Radiation	≤-35dB
Modulation distortion	≤7%
Maximum deviation	≤ 5KHz

| RECEIVER	
The sensitivity	≤0. 2uV
Modulation receiver bandwidth	5KHz
Adjacent selective	≥40dB
Intermodulation interference resistance	≥35dB
Spurious response inhibition	≥70dB
Audio output power	≥300mW
Audio distortion	≤8%

Product Features

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	462. 5625	12	467. 6625
2	462. 5875	13	467. 6875
3	462. 6125	14	467. 7125
4	462. 6375	15	462. 5500
5	462. 6625	16	462. 5750
6	462. 6875	17	462. 6000
7	462. 7125	18	462. 6250
8	467. 5625	19	462. 6500
9	467. 5875	20	462. 6750
10	467. 6125	21	462. 7000
11	467. 6375	22	462. 7250

Features

- 22 Channels

- 10 Channel NOAA All
Hazards Radio

- Weather Alert

- 142 Privacy Codes
(38 CTCSS codes/104 DCS codes)

- Hands-Free Operation
(VOX)

- Vibration Alarm
Silent Paging

- Scan
Channels,privacy codes

- Backlit LCD Display

- Call Alert
Ten selectable tones

- Button Lock

- Speaker/Microphone/
Jack/USB Charge Jack

- Roger Beep
Selectable On/Off

- Battery/Power Saver

- Keystroke Tones
- Battery Level Indicator
- Low Battery Audible Alert
- Auto Squelch
- Belt Clip

Backlit LCD Display
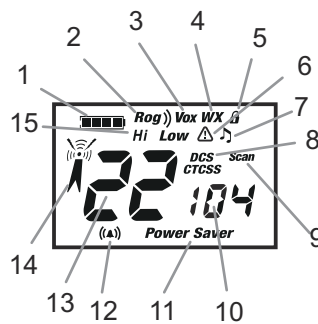
1. Battery Level Indicator
2. Roger Beep Icon
3. VOX Icon
4. Weather Icon
5. Lock Icon
6. Weather Alert Icon
7. Key Tone Icon
8. DCS/CTCSS Icons
9. Scan Icon
10. DCS/CTCSS Privacy Code Numbers
11. Power Saver Icon
12. Vibration Alarm/Call Alert Icon
13. Channel Numbers
14. Receive/Transmit Icon
15. Hi/Low Power Icon

Installing Batteries
To install or replace batteries:
1. Remove the belt clip by pulling the tab and sliding it up.
2. Pull the battery door down to release the battery cover. Insert 3 "AA" batteries.
3.Put the battery cover back into place. Snap the lock tab and belt clip back into place.

1.Do not mix old and new batteries
2.Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
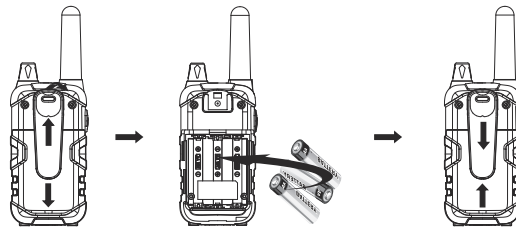
For charging radios (Adpater/Batteries:Just for batteries and adpater packaging option）
1.To charge a single radio, simply insert the connector directly into the charge jack located on the bottom of the radio.
The radio will display flashing battery icon while charging.
Recommends your radio be turned off while being charged.

Turning on Your Radio

Press and hold the Menu/Power button until you hear a series of audible tones indicating the radio is on. Your radio is now in Standby mode, ready to receive transmissions. The radio is always in Standby mode except when the Talk, Call or Mode/Power buttons are pressed.

Battery Low
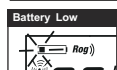
When battery power is low, the final bar in the Battery Low icon will blink and an audible tone will sound twice before the radio shuts off. Your batteries should be replaced or recharged, if using rechargeable batteries.

The radio will display flashing battery icon while charging.

Auto Battery Save

If there are no transmissions within 6 seconds, the radio will automatically switch to Battery Save mode and the Power Saver icon will flash in the display. This will not affect the radio's ability to receive incoming transmissions.

Communicating with Another Person

1. Press and hold the PTT button.
2. With the microphone about two inches (2.5-5 cm) from your mouth, speak in a normal voice.
3. Release the PTT button when you are finished talking and listen for a response.
You cannot receive incoming calls while pressing the PTT button.
Both radios must be tuned to the same channel/ privacy code to communicate.

To Select a Channel

With the radio on, select any of the 22 channels by pressing Menu and the Up or Down button.
Both radios must be tuned to the same channel/privacy code to communicate.

Channel Number

Listening for a Response
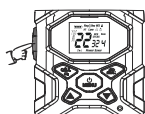
Release the PTT button to receive incoming transmissions. Your radio is always in Standby mode while the PTT or Call buttons are not pressed.

To Adjust Volume

Rotate Volume Knob until you reach a comfortable listening level. Rotate Volume Knob clockwise to increase the volume or counterclockwise to decrease the volume.

Call Button

Press and release the Call button.
The other person will hear a two second call tone. This tone is used only to establish voice communications. See page 10 on how to select between ten call tone settings.

Lock Function

The Lock function locks the Up, Down, Scan and Menu/Power buttons to prevent accidental operation.
To turn the lock on or off:
 – Press and hold the Call/Lock button for two seconds.
A double beep sound is used to confirm your lock on or off request. When in Lock mode, the Lock icon will be displayed.

Lock Icon

Scrolling Through the Menu Function

By scrolling through the MENU function, you will be able to
select or turn on preferred features of your radio. When
scrolling through the Menu function, your radio features
will be displayed in the same predetermined order:
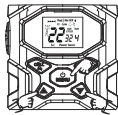
Set Channels
Set CTCSS Privacy Codes
Set DCS Privacy Codes
Set Vox Sensitivity/Off
Set Call Tones 1-10
Set Roger Beep On/Off
Set Key Tones On/Off
Set Vibration Alarm On/Off

Privacy Codes
Your radio incorporates two advanced coded squelch systems
that can help to reduce interference from other users on any given
channel. CTCSS (Continuous Tone Coded Squelch System) provides
38 privacy codes and DCS (Digitally Coded Squelch)provides
104privacy codes. This provides a total of 142 Privacy Codes. Either
system can be used on all channels, but both systems
cannot be used on the same channel at the same time.

To successfully communicate using a privacy code, both
the sending and receiving radios must be tuned to the same
channel and to the same privacy code system (CTCSS or DCS)
and privacy code number. Each channel will remember the last
privacy code system and number you select.

The privacy code 0F is not a privacy code, but allows all signals
to be heard on a channel that is set to 0F on both
the CTCSS and DCS systems.

Set CTCSS Privacy Codes

To select a CTCSS privacy code:
1. After selecting a channel, press the Menu/Power button until the CTCSS icon appears and the small numbers next to the channel number flash on the display.

If DCS is turned on at the channel selected,the display will flash the CTCSS icon and "OFF."To switch from DCS to CTCSS, press the Up or Down button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.

2. Press using the Up or Down button to select a privacy code. You can hold the Up or Down button for fast advance.
3. When your desired CTCSS privacy code is displayed, press the Menu/Power button to enter the new setting and proceed to other functions, or press PTT button to enter the new setting and return to Standby mode.

Set DCS Privacy Codes

To select a DCS privacy code:
1. After selecting a channel, press the Menu/Power button until the DCS icon appears and the small numbers flash on the display (01 through 104).

If CTCSS is turned on at the channel selected, the display will flash the DCS icon and "OFF." To switch from CTCSS to DCS, press the Channel Up or Channel Down button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.

2. Press using the Up or Down button to select a DCS privacy code. You can hold the Up or Down button for fast advance.
3. When DCS privacy code is displayed, press the Mode/Power button to enter the new setting and proceed to other functions, or press PTT button to enter the new setting and return to Standby mode.

Voice Activated Transmit (VOX)

In VOX mode, your radio can be used "hands-free," automatically transmitting when you speak. You can set the VOX sensitivity level to fit the volume of your voice and avoid transmissions triggered by background noise.
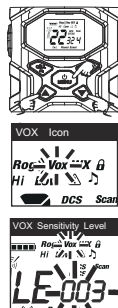
To set VOX sensitivity:
1. Press the Menu/Power button until the VOX icon flashes and the current sensitivity level is displayed. The current VOX sensitivity level is displayed with letters "LE" and a Number 001 through 003, with Number 003 being the most sensitive level and Number 001 being the least sensitive level.
2. Press the Up or Down button to change the setting.
3. Press the Menu/Power button to enter the new setting and proceed to other functions, or press PTT button to enter the new setting and return to Standby mode.
   Do not press any buttons for 15 seconds to enter the new setting and return to Standby mode.

The current VOX sensitivity level is displayed with letters "LE" and a Number 001 through 003, with Number 003 being the most sensitive level and Number 001 being the least sensitive level.

To turn VOX mode off:
1. Press the Menu/Power button until the VOX icon flashes on the display. The current OF setting is displayed.
2. Press the Up or Down button to turn VOX Off.
3. Press the Mode/Power button to enter the new setting and proceed to other functions, or press PTT button to enter the new setting and return to Standby mode.
   Do not press any buttons for 15 seconds to enter the new setting and return to Standby mode.

Ten Call Tone Settings
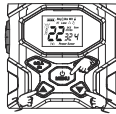
You can choose between ten different Call Tone Settings to transmit a call alert.
To change a call tone setting:
1. Press the Menu/Power button until the letter "C" and the current call tone number (001 through 010) is displayed. The current call tone will sound for three seconds.
2. Press the Up or Down button to hear the other call tone settings.
3. Choose one of the following:
a. Press the Menu/Power button to enter the new setting and proceed to other functions.
b. Press PTT button to return to Standby mode.
c. Do not press any buttons for 15 seconds to enter the new setting and return to Standby mode.

Roger Beep Confirmation Tone

Your listener will hear an audible tone when you release the PTT button.This alerts the other party that you are finished talking and it is OK for them to speak.
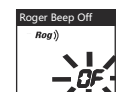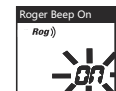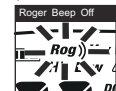
To turn roger beep on or off:
1. Press the Menu/Power button until the Roger Beep icon flashes. The current on or off setting is displayed.
2. Press the Up or Down button to select roger beep on or off.
3. Choose one of the following:
a. Press the Menu/Power button to enter the new setting and proceed to other functions.
b. Press PTT button to return to Standby mode.
c. Do not press any buttons for 15 seconds to enter the new setting and return to Standby mode.

Key Tone On/Off

When Key Tone is On,the Key Tone icon 🎵 will be displayed, an audible tone will sound each time a button is pressed.
To turn key tone on or off:

1. Press the Menu/Power button until the Roger Beep icon is displayed. The current on or off setting flashes.
2. Press the Up or Down button to select key tone on or off.
3. Choose one of the following:
a. Press the Menu/Power button to enter the new setting and proceed to other functions.
b. Press PTT button return to Standby mode.
d. Do not press any buttons for 15 seconds to enter the new setting and return to Standby mode.

Vibration Alarm and Call Alert

Your radio can alert you to incoming signals by sounding an audible call tone, by vibrating silently or both.
To change call settings:
1. Press the Menu button until the Vibration Setting icon flashes on the display. The current setting ("001" vibrate, "002" ring only,"003" vibrate + ring) is displayed.
2. Press the Up or Down button to change the call and Vibration setting.
3. Choose one of the following:
a. Press the Menu button to enter the new setting and proceed to other functions.
b. Press PTT button return to Standby mode.
c. Do not press any buttons for 15 seconds to enter the new setting and return to Standby mode.
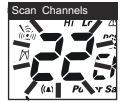
Channel Scan

Your radio can automatically scan channels.
To scan channels:
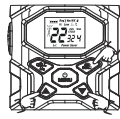
1. Press and release the Scan button until the Scan icon and the channel numbers appear on the display.
2. Press and hold the Scan button to begin scanning channels.

The radio ignores specific privacy codes while scanning channels.

The Scan icon will continue to be displayed when scan is on. Your radio will continue to scan all channels and stop if an incoming transmission is detected. Your radio will remain on that channel for 10 seconds.

During scanning (while receiving an incoming transmission), you can choose from the following:
a. Press and hold the PTT button to communicate on that channel. Your radio will remain on that channel and return to Standby mode.
b. Press the Up or Down button to resume scanning channels.
c. Press and hold the Scan button to return to Standby.

Privacy Code Scan

Your radio can automatically scan the Privacy Codes (either CTCSS 01 through 38 or DCS 01 through 104) within one channel. Only one set of privacy codes (CTCSS or DCS) can be scanned at a time.

To scan privacy codes:
1. While in Standby mode, press and release the Scan button twice (CTCSS) or three times (DCS) until the CTCSS or DCS icon and numbers are flashing.
2. Press and hold the Scan button to begin scanning privacy codes within the selected channel.

The Scan icon will continue to be displayed when privacy code scan is on. Your radio will continue to scan privacy codes and stop as an incoming transmission is detected. Your radio will remain on that channel/privacy code for 10 seconds.

During scanning (while receiving an incoming transmission),you can choose from the following:
a. Press and hold SCAN button return to Standby mode.

b. Press and hold the PTT button to communicate on that channel/
privacy code. Your radio will remain on that channel/privacy code
and return to Standby mode.
c. Press the Up or Down button to resume scanning privacy codes.
If you do not press any button within 10 seconds, your radio will
automatically resume scanning privacy codes.

NOAA* All Hazards Radio Channels

You can use your radio to listen to NOAA All Hazards Radio
channels transmitting in your area.

To listen to All Hazards Radio channels:
1. Press and hold the Weather(☁) button until the
All Hazards Radio icon and the currently selected
All Hazards Radio channel are displayed.
2. Use the Up or Down button to change All Hazards
Radio channels.
3. The All Hazards Radio icon will continue to be
displayed when All Hazards Radio is on.
4. To exit All Hazards Radio, press and hold the
Weather button until On or Off is displayed.

*National Oceanographic and Atmospheric
Administration Hazards Radio Icon

Weather (WX) Alert Mode

Turning On the Weather Alert function will allow your radio to
automatically receive NOAA Hazard Alert radio signals and warnings
from designated NOAA broadcast stations. If the radio is turned ON,
it will alert to Weather and other emergency alerts broadcast by NOAA.

This feature is set
to OFF by default.

Make sure the strongest
Weather channel is selected
for your area using the channel
selection in the previous menu.

To turn Weather Alert On or Off:
1. Press and hold the Weather(☁) button until the All
Hazards Radio icon and the currently selected All
Hazards Radio channel are displayed.
1. Press the MENU/Power button until the Weather
Alert icon flashes on the display. The current On or Off
setting is displayed.
2. Press the Up and Down button to turn Weather Aler
On or Off.

3. Press and hold the Weather/Scan button again to save the new setting and exit the Weather Alert Mode and return to Standby mode.
This radio is rain resistant to JIS4 standards.

FCC Statement
This equipment has been tested and found to comply with the limits for Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on,the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

RF Exposure Warning
This equipment must be installed and operated in accordance with provided instructions and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance. The SAR limit adopted by US is 1.6 W/kg averaged over 1 grams of tissue. The highest SAR value for this device type when properly worn on the body is 0.68 W/kg.