

L6

COM RADIO



Operator's
Manual

Important Notice

FCC RF Exposure Compliance Requirements for Occupational Use Only

This radio has been tested and complies with the Federal Communications Commission (FCC) RF exposure limits for Occupational Use/Controlled Exposure Environment. In addition, it complies with the following Standards and Guidelines:

- FCC 96-926, Guidelines for Evaluating the Environmental Effects of Radio-Frequency Radiation.
- FCC OET Bulletin 65 Edition 97-01 (1997) Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- ANSI/IEEE C95.1-1992, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- ANSI/IEEE C95.3-1992, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave.
- When transmitting, hold the radio in a vertical position with its microphone 1 to 2 inches (2.5 to 5 cm) away from your mouth and keep the antenna at least 1 inch (2.5 cm) away from your head and body.
- The radio must be used with a maximum operating duty cycle not exceeding 50%, in typical Push-to-Talk configurations. DO NOT transmit for more than 50% of total radio use time (50% duty cycle). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when TX is on the front panel of the radio is illuminated. You can cause the radio to transmit by pressing the P-T-T button.
- Always use Sporty's authorized accessories.

Simplified Directions

1. Install the batteries.
2. Turn the unit on
(rotate volume knob clockwise).
3. Enter the desired frequency
(1 2 2 9 7 5 for 122.975 MHz).
*Note: Six digits may be required to select
certain frequencies.*
4. Listen and transmit.

Table of Contents

General Information

Introduction	5
Features	5
Warranty	6
Antenna Requirements	6
Batteries	7
External Power	8
Precautions	9

Controls

Top View	10
Left Side View	10
Right Side View	10
Front View	12
Back View	12

Operating Instructions

Manual Frequency Selection	14
Frequency Search	15
Frequency Memory	16
Memory Recall	18
Memory Scan	19
Memory Clear	20
Transmitting	21
Using a Headset	22
Automatic Noise Limiting	23
Key Lock	24
Screen and Keypad Lighting	24
NOAA Weather Band	25
Emergency Frequency Selection	26
Low Back Light Mode	26
High Back Light Mode	26
LCD Contrast Adjustment	26
Night Mode	27

<i>Specifications</i>	28
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General Information

Introduction

This manual contains only operational information relative to the L6 COM radio. This manual is not intended as a service or maintenance manual and does not contain any theory or schematic diagrams.

Features

Rexon L6 COM is a hand-held, aircraft communication transceiver with the following features:

- Standard twin plug aviation headset jacks
- 3.5mm earbud/headset jack
- Accepts USB type C power (2.4 amps)
- 760 COMM frequencies (118.000 MHz to 136.975 MHz)
- 6 watts (PEP) transmit power while on batteries
- Auto-Lit keypad and screen
- 20 Visual memory channels
- Automatic noise limiting (ANL)
- Full feature scanner—Scan the 20 memory channels or the entire frequency range
- Key lock
- Large 1.5" x 1.63" LCD screen
- Low battery indicator
- NOAA weather band
- External power and antenna options
- 121.5 emergency frequency button
- Last frequency function with visible last frequency
- Side-tone
- Adjustable LCD screen
- Night mode
- Easy to use

Warranty

If, during the first year, you L6 COM transceiver fails due to defective workmanship or parts under normal use, we will replace it or repair it at our option.

The warranty does not apply to units subject to misuse, battery leakage, neglect or accidents. Nor does the warranty apply to units damaged by lightning, excess current, moisture, units repaired or altered outside the factory, units with altered or removed serial numbers, or units used with accessories other than those approved by the factory.

To have your unit serviced under this warranty, return it postage paid with proof of purchase to:

Sporty's Pilot Shop
Clermont County/Sporty's Airport
2001 Sportys Drive
Batavia, Ohio 45103-9719

If your L6 COM is no longer under warranty, you may still have it serviced at Sporty's. See above for return address instructions.

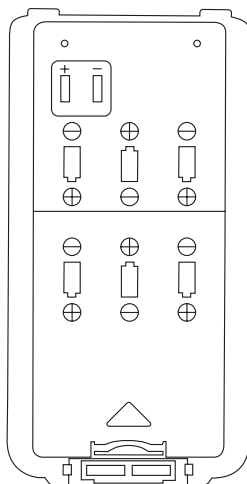
Antenna Requirements

Included with the L6 COM is a flexible rubber antenna (Rubber Duck). However, an external antenna may be needed if operating inside an aircraft (must be properly installed by an aircraft radio shop), automobile or other metal enclosure.

On top of the L6 COM is a BNC connector, which is standard for use on aircraft radios. Therefore, little difficulty should be encountered in connecting an existing aircraft radio antenna to the L6 COM.

Batteries

An Alkaline Battery Pack is standard equipment with the L6 COM. Alkaline batteries are a good power source for a backup radio because they have excellent storage life and no maintenance is required. The Alkaline Battery Pack is NOT rechargeable. The batteries must be replaced. To replace the batteries, turn the power OFF and then remove the battery pack from the unit by holding the belt clip (if installed) in the out position, and then lift the latch mechanism found at the bottom of the battery pack. Remove the battery cover by pulling the thumb latch in the direction of the arrow. Six 1.5 volt AA Alkaline batteries are required. Energizer batteries are the recommended battery for the L6 COM. Results may vary when using off brand batteries.



Replace the batteries by following the positive (+) and negative (-) terminal markings inside the case. When the batteries are replaced, replace the battery cover and attach the battery pack to the radio.

To attach the battery pack, make sure the power is OFF. Slide the battery pack onto the back of the and push in on the bottom until it locks in place.

If the radio will not be used for a long period of time (six months or more), please remove the batteries from the battery pack. This will help prevent the batteries from corroding the battery pack.

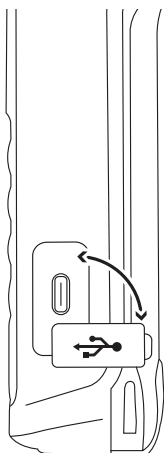
External Power

The L6 COM includes a wall adapter and USB-A to USB-C power cable. The wall adapter can be used in 100-240 volt applications. The USB-A port on the wall adapter provides the needed 2.4 amps to properly power the L6 COM. If less than 2.4 amps is provided, the L6 COM will receive transmissions, but it won't have enough power to transmit. If attempting to transmit on less than 2.4 amps, the L6 COM screen will flash intermittently and beep. To remedy this issue, change the power source to provide the needed 2.4 amps, or use the alkaline battery pack.

The L6 COM does not have power delivery capability. Power should only be provided from a USB-A port.

Another option for external power is to use a backup tablet battery pack (sold separately). Be sure to use a battery pack that provides at least 2.4 amps of power.

Note: When powering the L6 COM through the Type-C power port on the side of the radio, the radio will transmit at 5 Watts (PEP).



Precautions:

- Changes or modifications not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.
- Never attempt to service this unit yourself. It should be referred to qualified service personnel. Please read the Warranty section in this manual.
- If liquid spills or some solid object falls into the unit, remove the battery pack or external power adapter and have the unit checked by a qualified person before further operation.
- Never dispose of batteries or battery packs in a fire.
They may explode.
- Never leave weak or dead batteries in the Alkaline Battery Pack.
They may leak and cause permanent damage.
- Never store a battery pack where it may be accidentally shorted.
- Use only the approved external power adapters and battery packs.
- Never touch an external antenna when the danger of lightning is present.
- Do not leave the transceiver near heat sources, such as radiators or air ducts, or place the transceiver in an environment where the radio will be subjected to moisture, excessive dust, shock or mechanical vibration.
- Abrasive cleaners or chemical solvents may mar or damage the case. Clean the transceiver with a soft cloth dampened with a mild detergent solution.
- If operating the transceiver at temperatures outside the range of -20°F to 122°F (-30°C to 50°C), the LCD (screen) may not display the selected frequency. If the L6 COM is used in temperatures lower than the recommended range, the characters being displayed may change very slowly. These irregularities will disappear, with no harm to the L6 COM, when operation is resumed within the recommended temperature range.

Controls

This section serves only to identify and briefly describe the L6 COM's external features. Please see the Operating Instructions section for detailed instructions on the use of the L6 COM.

Top View

(A) Antenna Connector

The flexible rubber antenna or an external antenna may be attached to this BNC connector.

(B) N/A

(C) Squelch

Rotate clockwise to increase squelch and counterclockwise to decrease squelch.

(D) On/Off and Volume Control

Combination on/off and volume control. Turn the knob clockwise from the OFF position to turn the unit on and to increase volume.

Turn the knob counterclockwise to decrease volume and to turn the unit off.

(E) Headphone Jack

An ear bud or compatible headset can be plugged in here. The internal microphone + speaker are disabled when the jack is used.

(F) LEMO Headset Jack

A LEMO headset plug will fit into here.

(G) Wrist Strap Attachment point

A wrist strap can attach to this location.

Left Side View

(H) Push-To-Talk Button

This button activates the internal microphone or an external microphone when using the optional headset adapter.

(H) Light Button

This button activates the back lighting for the screen and keypad.

This key is also used in combination with the Clear key to enable/disable the auto-light feature.

(J) Flip/Flop Button

This switch is used to flip flop between your current and last frequency.

Right Side View

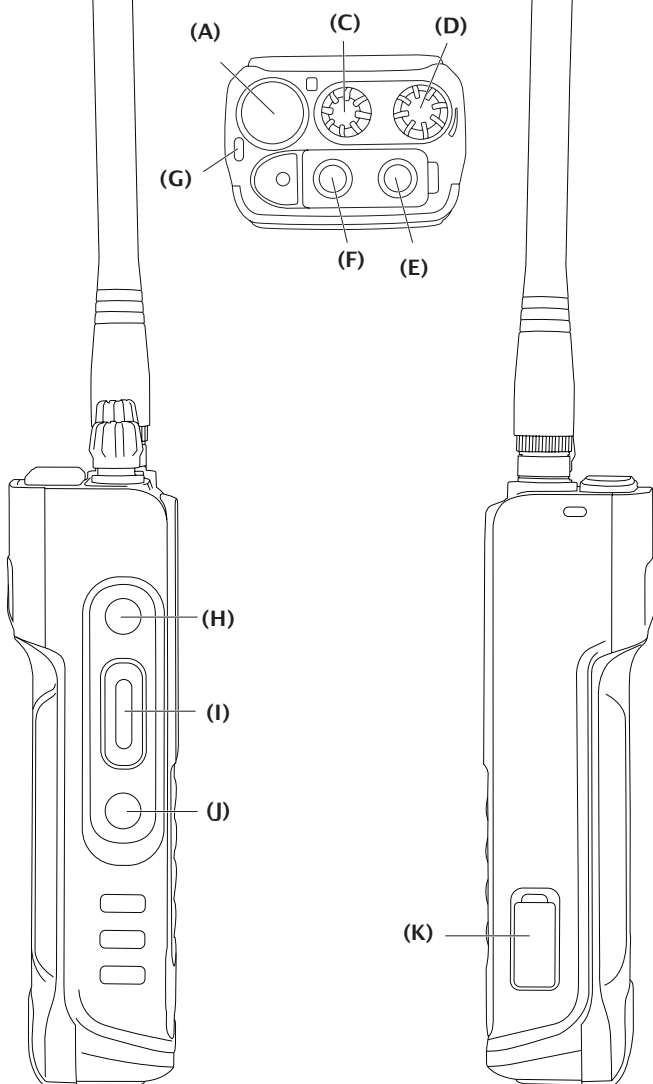
(K) External USB-C Power Port

The L6 COM may be powered externally, with or without a battery pack attached by plugging a 100–220 Volt Wall Power Adapter into this location. Note that the L6 COM needs 2.4 amps to operate properly. Wall adapters providing less amps should not be used. Use the wall plug that was included in the box.

Left

Right

Top



Front View

(L) Screen

This LCD displays the current frequency, last frequency, and other information to the operator.

(M) Numeric Keypad

These keys are used whenever the L6 COM requires a numeric input such as setting the frequency.

(N) 2 Key 121.5 Emergency

This key is used to select 121.5 emergency frequency. Hold down the 2 key for 3 seconds to automatically go to 121.5.

(O) 4 Key Night Vision Mode (while on the LED contrast page)

This key is used to place the L6 COM in night vision mode. Automatic noise limiting (ANL) can be turned on and off by holding the Clear key and pressing 4.

(P) 5 Key Normal Vision Mode (while on the LED contrast page)

This key is used to place the L6 COM in normal vision mode.

(Q) 7 Key Low Back Light

This key is used to adjust the low back light function. This is accessed by holding the Clear key and pressing the 7 key.

(R) 8 Key High Back Light

This key is used to adjust the high back light function. This is accessed by holding the Clear key and pressing the 8 key.

(S) Down Key/Key Lock

This key is used to select the next lower frequency or to initiate search and scan functions. This key is also used in combination with the Clear Key to lock out all inputs to the keyboard.

(T) Memory Clear Key

This key is used to delete a selected memory channel after putting the L6 COM in Memory Clear Mode (CLR+MEM).

(U) Internal Speaker

(V) Internal Microphone

(W) Clear Key/ALL CLR

This key is used to clear erroneous key entries and to exit functions such as search, scan, and memory storage and recall. This key is used in combination with the Down key to lock out all inputs to the keyboard. It is used in combination with the Light Button to enable/disable the backlight feature. It is used in combination with the UP key to enable/disable the BEEP function. This key is also used in combination with the ON/ OFF Volume Control to clear all memory channels.

(X) Weather Key

This key is used to recall the NOAA weather frequencies.

(Y) Memory Key

This key is used while storing frequencies in one of the 20 memory channels.

(Z) 9 Key LED Contrast

This key is used to adjust the LCD contrast and night mode function.

(Z) 8 Key High Back Light

This key is used to adjust the high back light function. This is accessed by holding the clear key and pressing the 8 key.

(AA) 9 Key LED Contrast

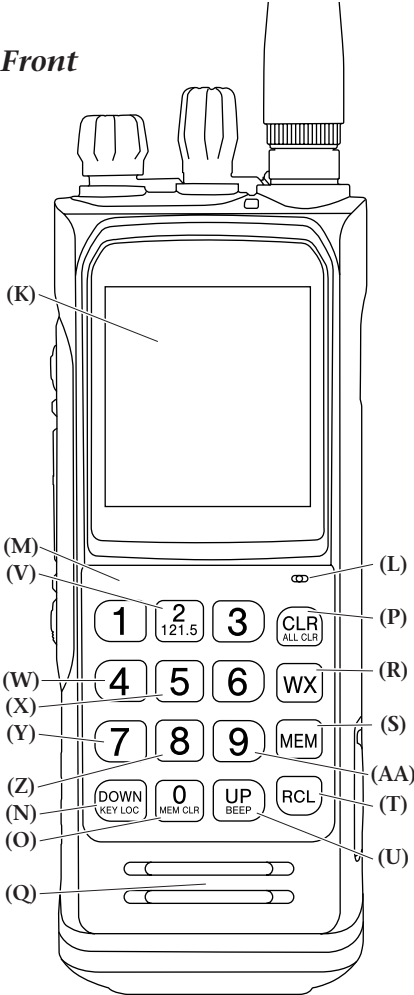
This key is used to adjust the LCD contrast and night mode function. This is accessed by holding the clear key and pressing the 9 key.

Back View

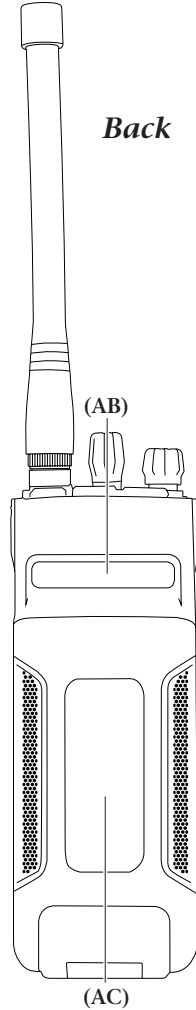
(AB) Belt Clip Attachment Point

(AC) Battery Pack

Front



Back

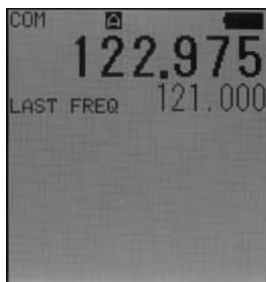


Operating Instructions

To perform the following functions you must be in the basic operating mode of the L6 COM. To ensure that you are in the basic operating mode, press the Clear key until the last frequency that was entered manually is displayed.

Manual Frequency Selection

The L6 COM will receive and transmit on the 760 COM frequencies (118.000 MHz to 136.975 MHz). The frequency currently selected is always displayed at the top of the L6 COM's screen and the last frequency is always underneath the current frequency.



From the example above, the L6 COM is receiving 122.975 MHz with the last frequency being 121.000 MHz. To manually enter a desired frequency such as 118.700 MHz, enter 1 1 8 7 0 0 using the numeric keypad. As each digit is entered, the flashing cursor moves to the next digit. Six digits may be required to select a frequency.

The L6 COM will return to the previous frequency if there is a pause of five seconds between key entries while entering a new frequency. The Clear key may be pressed at any time prior to entering the sixth digit to clear the digits entered and return to the previous frequency.

Any frequency outside of the range listed above will not be accepted. The L6 COM will beep when such a digit is entered. For example, starting any frequency selection with a number other than 1 or attempting to place a 5, 6, 7, 8 or 9 in the second digit will result in a beep.

The L6 COM can flip flop between the current frequency and the last frequency by pressing the button above the PTT on the side of the radio.

Frequency Search

To manually search through the frequency range, the Up key or Down key may be pressed at any time to select the next higher or lower frequency. The Up and Down keys may be pressed repeatedly to continue changing the selected frequency.

To automatically search the entire frequency range for a broadcasting signal, the Up key or Down key may be pressed and held for one second. The Screen will display SEARCH as seen below.



The frequencies will either scroll up or down depending upon whether the Up or Down key was used to initiate the Search.

When a broadcasting signal is found, the word SEARCH will flash and the L6 COM will stop temporarily on that frequency. If the broadcasting signal is cut off for more than two seconds, the Search will resume until another signal is found. When 136.975 MHz is reached during an upward Search, the Search automatically continues at 118.000 MHz. Likewise, when 118.000 MHz is reached during a downward Search, the Search automatically continues at 136.975 MHz.

The Search may be canceled at any time by pressing the Clear key. The direction of the Search may also be reversed at any time by pressing and holding the Up and Down key (whichever is appropriate) for one second. It is very important that the Squelch be properly adjusted prior to initiating a Search. The background static received with the squelch off may be strong enough to disrupt a Search. If a Search gets “stuck” on a frequency with too much background noise, increase the Squelch or press and hold the Up or Down key for one second to skip that frequency and resume Searching.

Frequency Memory

The L6 COM has 20 visual memory channels numbered 00 to 19 to store those frequencies used most often. These channels are stored in groups of five on four separate pages. These memory channels may be used to store COMM and WX frequencies.

Select a desired frequency, such as 122.700, to be stored by using either manual frequency selection or frequency search. To store this frequency, press the Memory key. The following screen will appear.



The first available memory channel will be displayed with an arrow on the screen. In this example, memory channel 06 is the first available location. To store the frequency, press the Memory key a second time. The screen will now display the following for one second to verify 122.700 has been stored in memory channel 06.



You may also overwrite an existing memory channel or select an available memory channel other than the first one displayed. Once again, select the desired frequency and then press the Memory key.



The first available memory channel will be displayed with an arrow on the screen. Now press either the Up or Down key to scroll through the 20 memory channels. If a memory channel is already storing a frequency, the stored frequency will be displayed next to the memory channel number on the screen while your selected frequency remains on the top line.

Once the desired memory channel is selected, press the Memory key and the frequency will be stored. Remember, if a channel was selected that was already storing a frequency, the old frequency will be erased when your selected frequency is stored.

You may exit the memory function by pressing the Clear key any time prior to storing the frequency (pressing the Memory key the second time).

Memory Recall

To recall a frequency stored in a memory channel, press the Recall key. The first five memory channel numbers and their corresponding frequencies will be displayed. The first stored memory channel immediately becomes the active frequency and is received by the L6 COM.

In this example, memory channel 00 is listed first.

At this point you may select any stored memory channel by either pressing the Up or Down key to scroll through the stored frequencies. Memory channels stored on other pages may also be accessed directly by using the numeric keypad. For example, to receive memory channel 08 you may either:

1. Press the Recall key followed by the Up or Down key to scroll to 08

Or

2. Press the Recall key followed by 0 8

Once in the Recall function, the L6 COM stays in Recall until the Clear key is pressed. This allows you to sequence your frequencies in the order you may wish to use them. For example, you may wish to store your airport's ATIS in memory channel 00, Clearance Delivery in channel 01, Ground in channel 02, Tower in channel 03 and Departure Control in channel 04. For this example, you would press the Recall key once followed by the Down key for every frequency change instead of having to enter each frequency manually.

While in the Recall function the only entries accepted are numeric entries between 00 and 19, the Up or Down key or the Clear key. All other inputs cause the L6 COM to beep. Remember, you may press the Clear key at any time to exit the Recall function. Once you have left the Recall function, the L6 COM will remain on the last frequency that was being received.

Memory Scan

The Memory Scan function is very similar to the Search function, except it only scans those frequencies stored in the memory channels. To Scan the memory channels, press the Recall key to enter the Recall function. Then press and hold the Up or Down key for one second to initiate either an upward or downward Scan. The word SCAN will appear on the screen and the memory channel number and frequency will be displayed on the top line of the screen.



When a broadcasting signal is found, the word SCAN will flash and the L6 COM will stop temporarily on that frequency. If the broadcasting signal is cut off for more than two seconds, the Scan will resume until another signal is found.

The Scan may be canceled at any time by pressing the Clear key. The direction of the Scan may also be reversed at any time by pressing and holding the Up or Down key (whichever is appropriate) for one second.

Once you have pressed the Clear key to exit a Scan, you are still in the Recall function. Press the Clear key again to exit the Recall function. The L6 COM will remain on the last frequency received.

It is very important that the Squelch be properly adjusted prior to initiating a Scan. The background static received with the squelch off may be strong enough to disrupt a Scan. If a Scan gets “stuck” on a frequency with too much background noise, increase the Squelch or press and hold the Up or Down key for one second to skip that frequency and resume Scanning. Please note, since ATIS broadcasts continually, a Scan will always stop on an ATIS frequency if it is included in the Scan.

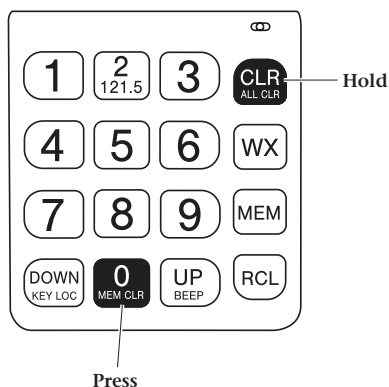
Memory Clear

To clear or erase a memory channel, press and hold the Clear key followed by the Memory key. Release the keys when MEM CLR is displayed on the top line of the screen.

The first five memory channels with stored frequencies will be displayed on the screen. Press the Up or Down key to scroll through the memory channels to select the memory channel to clear. Once the desired memory channel is displayed, press the Memory Clear key (also the 0 key on the numeric keypad) to clear the selected channel. Additional channels may be cleared by once again pressing the Up or Down key to make another selection and then pressing the Memory Clear key.

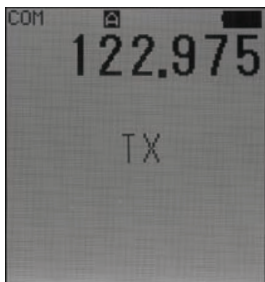
Press the Clear key at any time to exit the Memory Clear function.

To clear every memory channel, hold down the Clear key while turning on the power. Please note, there is no way to reverse this process.



Transmitting

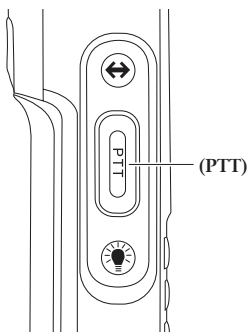
Press the Push-To-Talk Button (PTT) at any time while tuned to a COM frequency to broadcast over the selected frequency. While the PTT is pressed the screen will display TX beneath the frequency to verify the L6 COM is broadcasting.



Release the PTT to end the transmission and the L6 COM will once again receive the selected COM frequency. If a headset is being used, the L6 COM's internal microphone will be deactivated and the microphone on the headset may be activated by either pressing the L6 COM's PTT or pressing an inline remote PTT.

The L6 COM will transmit at 6 watts (PEP) when using the alkaline battery pack or optional lithium ion battery pack. If you are using the type-C power port, the L6 COM will transmit at 5 watts (PEP).

Note: A remote Push-To-Talk (PTT) switch can not be used in the 3.5mm jack.

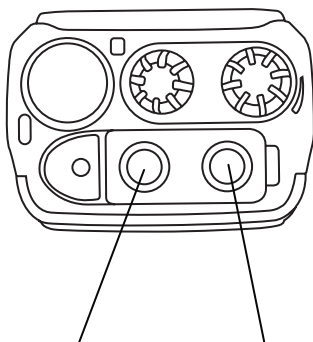


Using A Headset

The L6 COM radio can be used with a LEMO Headset .The jacks are located on the top of the radio underneath a protective cover. This cover can be rotated out of the way. One jack fits the LEMO and one jack fits the headphone. The protective cover has icons to identify the correct jack.

To activate the LEMO headset, you have to press WX key for 3 seconds. then L6 icon shows in LCD display. To deactivate the LEMO headset, press WX key for 3 seconds.

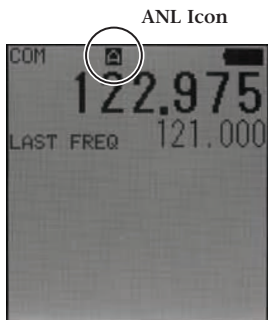
The 3.5mm jack can be used to output audio to a compatible headset. The jack isa four pole jack providing sound to both channels and microphone capabilities (left, right, ground, mic). The push-to-talk(PTT) switch on the L6 COM radio can be pressed to initiate transmissions when using the 3.5mm jack.A remote PTT will not work when using the 3.5mm jack.



LEMO Headset Jack Headphone Jack

Automatic Noise Limiting (ANL)

Variations in aircraft radio transmissions as well as interference from electronic sources can lead to spikes in the amplitude of receptions. The L6 COM audio output level is attenuated at 6dB when the ANL is enabled. By default, ANL is enabled. To toggle the ANL function off or on , hold down the CLR key and press the 4 key. When enabled, an (A) icon will be displayed at the top of the screen as shown below.



Key Lock

Inputs from the keypad may be locked out at any time by holding the Clear key and pressing the Down key. When Key Lock is active, KEY.L is displayed at the top of the screen as shown below.



Key Lock is deactivated by holding the Clear key and pressing the Down key a second time. Key Lock only locks out the L6 COM's keypad. The PTT and Light functions are not affected.

Screen and Keypad Lighting

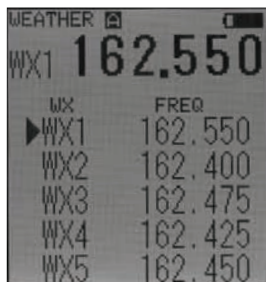
The screen and keypad lighting are on by default. To save battery life, you may deactivate the backlighting. Press and release any button to activate the L6 COM's screen and keypad lighting for five seconds. Screen and keypad lighting will also activate anytime a frequency becomes active.

To activate the screen and keypad lighting indefinitely, press and hold the Light Button for one second until a beep is heard. When this is done, the Light Button must be pressed a second time to turn the lighting off.

To turn off automatic screen and keypad lighting, press and hold the clear button, followed by the light button. The screen will display LIGHT OFF. To reactivate automatic lighting, repeat these steps.

NOAA Weather Band

Press the WX key to recall the ten stored NOAA Weather frequencies. The first five channel numbers and their corresponding frequencies will be displayed. The first stored frequency immediately becomes the active frequency and is received by the L6 COM.



The screenshot shows a handheld device screen with the title 'WEATHER' and a battery icon. The main display shows 'WX1 162.550'. Below this, a list of five channels is shown with a right-pointing arrow next to the first one:

WX	FREQ
▶ WX1	162.550
WX2	162.400
WX3	162.475
WX4	162.425
WX5	162.450

At this point you may select any stored weather channel by pressing the Up or Down key to scroll through the stored frequencies. Weather channels may also be accessed directly by using the numeric keypad. For example, to receive weather channel 08 you may either:

1. Press the Weather key followed by the Up or Down key to scroll to 08

Or

2. Press the Weather key followed by 8

Once in the Weather Band function, the L6 COM stays in Weather Band function until the Clear key is pressed. To edit the weather band, press the Clear key and enter the communication frequency you want to use. Once the frequency is entered, you will see COM in the upper left of the screen. The weather frequency will move into the last frequency location.

While in the Weather Band function the only entries accepted are numeric keypad entries between 0 and 9, the Up or Down key or the Clear key. All other inputs cause the L6 COM to beep. Remember, you may press the Clear key at any time to exit the Weather Band function. Once you have left the Weather Band function, the L6 COM will remain on the last frequency that was being received.

Emergency Frequency (121.5)

To make 121.5 the active frequency, press and hold the 121.5 Button (2 key) for 2 seconds. The screen will display EMERGENCY. This feature works in any mode.

Low Back Light Mode

To set the back light mode of the L6 COM to low, press the Clear key and the 7 key.

Once in the low back light mode, the back light can be further adjusted from level 0 to level 15 by pressing the Up or Down keys.

Press the Clear key to save the setting.

High Back Light Mode

To set the back light mode of the L6 COM to high, press the Clear key and the 8 key.

Once in high back light mode, the back light can be further adjusted from level 16 to level 31 by pressing the Up or Down keys.

Press the Clear key to save the setting.

LCD Contrast Adjustment

To adjust the LCD contrast of the L6 COM, press the Clear key and the 9 key.

The contrast can be adjusted by pressing the Up or Down keys.

Press the Clear key to save the setting.

Night Mode

To put the L6 COM in night mode, press the Clear key and the 9 key to bring up the LCD contrast adjustment screen. Once on the LCD contrast adjustment screen press the 4 key to place the L6 COM in night mode.

Press the Clear key to save the setting.

To put the L6 COM in normal mode, press the Clear key and the 9 key to bring up the LCD contrast adjustment screen. Once on the LCD contrast adjustment screen press the 5 key to place the L6 COM in normal mode.

Press the Clear key to save the setting.

Specifications

General

Communication Frequencies:

760 Frequencies from 118.000 MHz to 136.975 MHz

Memory Channels

20 channels numbered 00 to 19

NOAA Weather Band

10 channels numbered 0 to 9

Weight with Alkaline Battery Pack (including antenna)

1.12 lb. (508 grams)

Weight without battery pack (including antenna)

.72 lb. (327 grams)

Dimensions with battery pack

Height 6.9 in. (175.95 mm)

Width 2.4 in. (60.95 mm)

Depth 1.7 in. (43.5 mm)

Operating Temperature Range

-22°F to 122°F (-30°C to 50°C)

Frequency Stability

± 0.003%

Battery Pack Power

Alkaline Battery Pack

9.0 VDC (6 AA batteries x 1.5 VDC each)

Receiver

Audio Output

350 mW into 8 Ohms, 10%

Sensitivity

2.0 uV @ 1 kHz, Modulation 30%

Band Width

± 25 KHz at 60 dB down

Transmitter

Transmitter Power

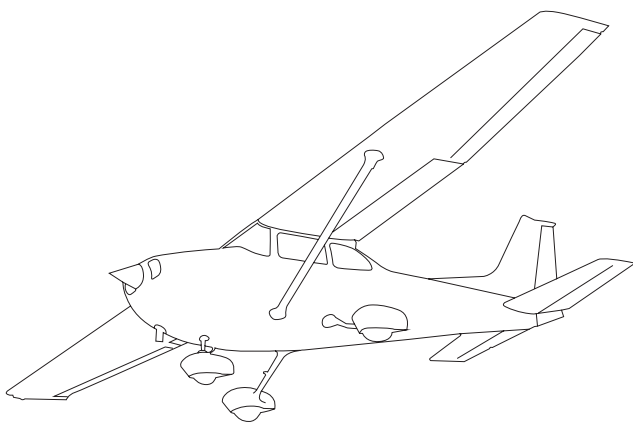
1.8 Watts ± 20%, 6 Watt (PEP) at 85% modulation

Spurious Radiation

-60 dB below carrier

Power Consumption

1 A (max)



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