

This radio is an FM only radio capable of receiving FM channels between 88 and 108 megahertz. It has audio prompts to assist you. First let's discuss the controls. Place the radio in front of you,

Radio Controls:

Starting on the left side, at the bottom is the USB-C power connector for charging the battery. Above that, is the 3.5 millimeter head phone jack, and next to it is the loud speaker mute button. If you press the mute button, the loud speaker will be silenced but you will still receive audio through the head phone jack. Just press the mute button again to restore sound to the loudspeaker.

On the top of the radio starting at the left side, the first button is the announce or talk button. Press this button momentarily to hear what frequency you are currently on. Moving to the right, there are three buttons grouped together. These are the radio channel preset buttons. To use these, first tune the radio to a frequency that you want to save, then press and hold a preset button for more than three seconds. Next release the button and the radio will tell you if the button has been programmed. Now whenever you press that button momentarily the radio will go to that frequency. The button on the left side of the group is the first preset button. The radio will automatically go to this preset frequency when you turn on the radio. So, program your favourite station into this button. You can reprogram these buttons repeatedly anytime you like.

Moving further to the right there are two knobs. The first knob is for the radio volume, this controls the volume in both the speaker and the earphone. The next knob is the tuning knob, it is a rotary knob that controls the radio frequency. Each incremental turn of this knob in a clockwise direction will increase the radio frequency by one hundred kilo hertz. Each incremental turn of this knob in an anti-clockwise direction will decrease the radio frequency by one hundred kilo hertz.

With each turn of this knob, you will hear a pip sound. A higher frequency pip indicates an increase in radio frequency and a lower frequency pip indicates a decrease in radio frequency. You may turn this knob infinitely; the radio will always stay in the FM band. When you tune the radio to the end of the band it will automatically roll over to the other end of the band.

For example, if you tune the radio past 108 mega hertz, it will automatically go to 88 mega hertz, and vice-versa. This rotary knob also contains a button, press down on this knob to activate the button. A momentary press will tell you what frequency you are currently on. This is the same function as the announce or talk button in case you prefer to use this method of activation.

If you press and hold this button for more than three seconds, you will get an update on the radio USB-C connection and the battery level. If you first tune the radio to 107 megahertz and then press and hold this button, you will also access the radio instruction mode which will read out the radio operating instructions. If you first tune the radio to 108 megahertz and then press and hold this button, you will also access the radio easter egg mode which will tell you some jokes.

On the right side of the radio at the top is the antenna. This is a 1.5-meter length of wire. Stretch out this wire either horizontally or vertically for better reception. Below this is the radio power switch. This

is a rocker switch. If the USB-C cable is plugged in, the radio battery will charge regardless of whether this switch is on or off.

Radio Battery:

Now let's discuss the radio battery. The radio contains two, 3.7 volt, 18650 form factor, button top, 3300 milliamp hour lithium-ion batteries. These are extremely powerful batteries which contains a lot of energy. As such, you can expect that the radio will run continuously for approximately 30 hours or more on one charge when the batteries are new.

These batteries have a lifetime of approximately 300 to 500 charges. Charging will take about 4 to 6 hours. The batteries will last longer if you charge up the batteries and then unplug the USB-C cable until the next time they need to be charged. The radio will tell you when to charge the batteries. The nominal battery voltage is 7.4 volts.

When fully charged the battery level will be at between approximately 7.9 and 8 volts. When the battery level is below 6.2 volts charging is required. The batteries and the charger circuit have several protection mechanisms such as short circuit, over voltage, over charging and over temperature protection. That said, lithium-ion batteries must be treated with respect.

As with any lithium-ion batteries, you should never, ever, leave the batteries charging unattended. The radio should not be operated with the batteries removed; it is not designed to operate without the batteries on USB power only. If you need to replace the battery, turn the radio off, unplug the USB-C cable and remove the radio case back cover by removing the 4 screws holding the cover in place.

Note that items on the back cover are attached with wires. Take care not to pull on these wires. The batteries are located in a battery holder attached to the back cover. The batteries are held in place by the spring pressure of the holder.

Volume adjustments:

On the back cover there are two small holes. You may insert a small slot head screwdriver, less than 0.2 inches in diameter into these holes and adjust the pip or beep audio volume and the announce audio volume levels. These volume levels are preset to a comfortable mid-range position and should not require frequent adjustment, however they are provided should you wish to change these levels.