



Model: BHM-78

Vero optional
BT LCD
Microphone

Review by
G0JMS

Vero BHM-78

Bluetooth optional extension microphone

Supplied from



Moonraker (UK) Ltd.

12 Cranfield Rd,

Woburn Sands,

Milton Keynes

MK17 8UR

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*Review by G0JMS Min Standen

Contents
Bluetooth LCD Microphone for Vero Radio
USB Charging cable D Type
Belt Clip & Hanging Clip
(Coins to show size of BT Microphone)



MOONRAKER 

MOONRAKER (UK) LIMITED
Cranfield Road Woburn Sands Bucks
MK17 8UR

If you need to see an unboxing video there's plenty on YouTube ☺



Description of LCD BT Microphone

The LCD BT Microphone BHM-78 is available in 2 HiVis bright colours bands yellow or orange. I found it feels comfortable in the hand and its lightweight, with buttons easy to find and use in the sturdy body as the standard Vero equipment. Fits nicely in a pocket or using the latching belt hanger which locks it in.

The pairing of the BHM-78 to the phone was easily done and the top indicator light flashes during pairing. You can switch easily between radios, if you have more than one. It does notifying you if you're out of BT range of the radio and when back in range of BT via bleeping tone and LED on top..

In open air expect 20 to 30 meters BT distance which is the same as mobile phone to VR N7500 radio.

If you move out of range the audio will go digital, bleep and stop showing "no signal" on the BT microphone BE-78, moving back into range it will bleep and reconnect to the radio easily.

Pairing is via the screen or the top LH button (double Click). The button is easy and a single click gives FM radio frequencies.

The control display is bright and easy to use on the same panel/theme layout of the phone Android App with similar settings which change on the app as you change them on the microphone.

The audio is good and strong with recommended setting up before using on air as the audio is load and I found the best setting was low audio level for the microphone TX best.

Having the reset the zone to UTC the internal GPS quickly showed the correct time and date, location & height receiving GPS within the radio shack. It has speed and direction on the screens plus temperature within the microphone.

I was able to switch easily between the 2 * Vero VR N7500 radios, where it picked up the memory channels already held on each of the radio, so no reprogramming required.

Note* changing of memory banks requires the phone to be connected via BT to the radio for the memory bank to be changed as it's not held in the LCD micro microphone.

There is a good charging port on the bottom of the detachable battery with led indicator Red/Green for charge condition. USB cable "C" type is included and fits/charges whichever way it's plugged in. The charge holds well lasting a long time as it's only the GPS, screen and BT load.

Changes made on the LCD screen or app change immediately on the other - vice versa.

The BHM-78 has sealed buttons and battery mean that it can be used in adverse conditions and the bright colours make it stand out and easy to find. I didn't try submersing the BT handset. But with the battery and ports with covers internal damage is very unlikely in the harshest of conditions.

I found that Kenwood & Baofeng style microphones works well and tried a BT headset plugged in the side and a separate PTT worked well when audio input set correctly and not over driving TX audio. The port is accessed under the sealed RH port cover.

The microphone will connect to Vero N range radios VR N7500 and Handheld VR-N75 and was tested on each.

Model: BHM-78



Button Operation

- 1 Pairing – Double Click
- Single – VHF Radio
- 2 PTT Button
- 3 Channel Change
- Double click – reverse repeater
- Long press – Prohibit TX
- 4 Channel Change previous
- 1750 repeater tone - Double click
- TX power – long press
- 5 Headphone set (Kenwood pinout)



Front buttons.

Menu – Function Pages

Up – Page up

Down – Page Down

Exit – Return key

P1 – Memory channel

P2 – Function key – scrolls through screens GPS, teammate.

Compass GPS screen shows direction of travel, speed, height, date and time and temperature of the BT microphone. The GPS signal from the new Beidou GPS satellite system and the battery condition is shown along the top line.

Screen shots



Searching for GPS



Battery and BHM-78 Status



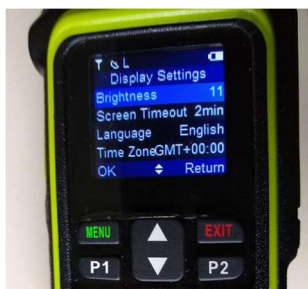
Main Menu Page



GPS Status



APRS Received stations



Display and adjustments



Connected to VR-N7500



Signalling settings OFF...



APRS & Share set to 16 Radio settings, max TX time – Audio Relay (records signal in and plays it back)



- Dual Waiting – 2 channel
- Scan – Scan memory bank
- Talk Around – Reverse Repeater (listen & TX)
- Power – TX power High, Medium and Low.

My Impression

I was very impressed with the new BMH-78 Bluetooth microphone and a great addition to the Vero range of radios, once setup and finding the best level of TX audio (low) which you change on the App Device Settings and the device speaker set high so that you have plenty of volume work to with on the new microphone. Low TX audio stopped BT overload reports on testing.

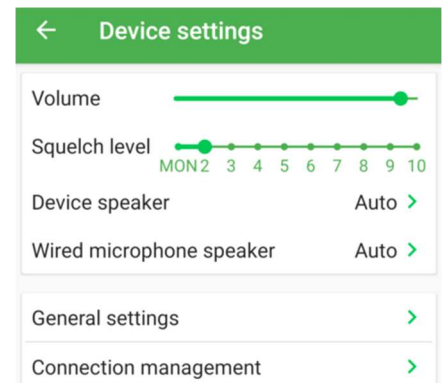
The distance for BT was as good as expected in the open and the same as the phone App 20-30 yds/meters in line of site. BT reconnection was automatic and the shown connection on the screen is good. Reconnection of BT to other radios was very quick and simple.

GPS lockup was quick and held the signal in the radio shack of the house.

I now prefer to use the BMH-78 instead of the phone and turn off the phone app as the 16 stored channels were found to be sufficient for me. Loading up a new memory group if needed from the phone app.

If the radio and BMH-78 were used at an event/emergency station the volume can be load and clear, hands free and even a headset, no wires, slips in a pocket allowing movement and convenience of flexible operation in the VR-N7500 or the VR-N75 handheld (VHF or UHF). Being water resistant in a good solid case like all Vero equipment I have seen and used this is a keeper and will be mistaken for a small handheld radio creating interes when we can all gather together again.

Any software updates will be done automatically via the internet and wifi like the N7500 & N75 from the Vero manufacturing support team which have been excellent.



Min Standen G0JMS

April 2021