

Other K7VIQ Google Docs

[K7VIQ's CW QSO Protocol in Detail - Google Doc](#)

[Tuning a CW Station on the IC-7300 - Google Doc](#)

[Paul's Memory and Learning Morse Code - Google Doc](#)

[My Page 3 Morse Code Study History Latest practice sheet - Google Doc](#)

[Portable Radios Comparisons - Google compare sheet](#)

[Redesign of the MTR-3B by the end of 2024 - Google Doc](#)

[Summary of where to find slower and faster code - Google Doc](#)

[Amazon.com: Koss 155954 VC20 Volume Control, Standard Packaging, 39-Inch Cord, Compatible with Cell Phones and Headphones](#)

[QRP Transceivers – LNR Precision Inc](#) Old closed and unused FORUM

If I can't get one of these rare items made in limited quantities that the collectors grab up multiple units of so they can have one of every model and each release version then there is the Venus SW-3B with a china warranty that would be impractical to take advantage of because of shipping. Maybe it would be better to get a used one from a trusted US ham so I know it works. Most other QRP radios are either single band kits, or kits not suitable for a beginner, or much more expensive, or more than I need for a portable radio.

History Redesign of the LNR MTR 3-Band QRP Models

[Get right to the new LNR MTR-3B 2024 Heading Link](#)

Other LNR models and colors are: Lt blue=3 band(\$250), Red=4 band(originally Light gray)\$369.99 , Black=5 band \$275, [Lnr Precision LD-11 QRP transceiver](#)

\$50 lowes for 23 ft paint pole

The number of mountain peaks on the logo match the number of bands of the unit.

Make changes to the below chart at: [Portable Radios Comparisons Google Sheet](#). Not on this page.

MTR3B LED 3-Band Mountain Topper (Updated 2/11/16)	Discontinued - This version had RCA jack antenna, Single LED display.	CW 40,30,20 M	3-5W - 6 to 12 v	CW 40,30,20 M This version had RCA jack antenna, Single LED display.	How to Use the Mountain Topper GPS Radio old video should. From this video, the video LED was left relevant to use DCC Jack - 2 pins x 10mm Center pins. Antenna jack - 500k Ohm - 3.90/3.70/3.5 x 2.5 x 10.0 Q1728J4	Discontinued - This version had RCA jack antenna, Single LED display.	Machined Aluminum - PDF manual link	No Speaker, Use headphones or a mini amp.	No Tuner. Use a 40, 30, 20m balanced ant. such a Portable Multiband End Fed Antenna.	"Discontinued - This version had RCA jack antenna, Single LED display, "
MTR3B_LCD 3-Band Mountain Topper (Updated 8/28/18) LCD Display - Production run ended 8/20	Discontinued Link to eham review \$250.00	CW only, Original 40,30, 20 M SSB Receive only.	Wide power supply operation -- 6V to 12V Low operating current -- 20 ma @ 6V, 15 ma @ 12V 5+ Watts out at 12V supply, 2.5-3W at 9V supply, 18 milli amps, NO SWR unlike the MTR4B. No Power out display	3 band operation -- Original 40 / 30 / 20 Easy to read 2 line LCD display with back lighting. Iambic B mode keyer, 9 to 31 WPM range in 1 WPM steps. Three, 63 character message memories with beacon mode. Optional decoding and display of Morse being sent via paddle. Know you are sending good code Built-in 24 hour real time clock. Battery backup restores last used settings on power up.	LNR Precision (No longer available new.) Used only at like new or more prices.		Machined Aluminum - PDF manual link	No Speaker, Use headphones or a mini amp.	No Tuner. Use a 40, 30, 20m balanced ant. such a Portable Multiband End Fed Antenna. Push button tuning and audio limiting eliminates protruding knobs.	No RF gain. The Mountain Topper Rigs are designed to be a very small, light weight, very battery efficient, multi-band CW rig suitable for field operation. The small size and low weight make this rig ideal for SOTA operators and backpackers. The receiver as a single conversion of superheterodyne had a crystal ladder filter with about 400 Hertz bandwidth and the local oscillator is synthesized.
LNR MTR-3B_LCD 2024 Any more New redesign details of the MTR-3B by the end of August 2024 Release late 2024	TBA 2024 \$250.00 ?	New model stated to have 40, 20, 15 M SSB Receive only. Link to my Redesign of the MTR-3B by the end of 2024 Doc page	Wide power supply operation -- 6V to 12V Low operating current -- 20 ma @ 6V, 15 ma @ 12V 5+ Watts out at 12V supply, 2.5-3W at 9V supply.	3 band operation New 2024 version 40 / 20 / 15. Easy to read 2 line LCD display with back lighting. Iambic B mode keyer, 9 to 31 WPM range in 1 WPM steps. Three, 63 character message memories with beacon mode. Optional decoding and display of Morse being sent via paddle. Know you are sending good code Built-in 24 hour real time clock. Battery backup restores last used settings on power up.	We are shifting focus on a new redesign of the MTR3B by the end of 2024 and details will be forthcoming.		Machined Aluminum - PDF manual Link - updated 2024 manual expected	No Speaker, Use headphone or mini amp.	No Tuner. Use a 40, 20, 15m balanced ant. such a Portable Multiband End Fed Antenna. Push button tuning and audio limiting eliminates protruding knobs.	No RF gain. The Mountain Topper Rigs are designed to be a very small, light weight, very battery efficient, multi-band CW rig suitable for field operation. The small size and low weight make this rig ideal for SOTA operators and backpackers. COLOR pick about: #4A6B48C - Red 75 - Green 100, Blue 140 - comput puts is close to Dark Cyan !
LNR Mtr4b V2.3 Mountain Topper	\$369.99	CW only. SSB Receive only.	5W with 12.0 Volt supply	4 bands: 80, 40, 30, 20 meters 3 useful bands	MANUAL LINK: Very low receiver noise floor, 2 line, back lighted LCD display, SWR -- RF Power display, 3(Three) CW Morse message memories with beacon mode	Mtr4b V2.3 Mountain Topper	Machined Aluminum	No Speaker. Use headphone or mini amp.	No Tuner	Getting spendy. Has SWR. 4 bands but one is 80M for "mobile" use. 3(Three) CW Morse message memories with beacon mode

Redesign of the MTR-3B by the end of 2024

[POTA Activations](#)
[LNR MTR-3B the receiver as a single conversion of superheterodyne](#)
[MTR-3B_LED \(Production ended 2/11/16\)](#)
[MTR-3B_LCD \(Production run was 9/29/18 to 8/28/20\)](#)
[Features: \(Ended its run 8/28/20\)](#)

[MTR 3-B 2024 \(Exact 2024 model number TBA\)](#)

■ [Did you know there's a new MTR-3B in the works--? | Q R P e r](#)

[LNR MTR-3B 2024 Redesign: A Compact CW Radio Generating Enthusiasm](#)

[GENERAL LNR PRODUCT UPDATES HISTORY](#)

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[MTR3b LCD with a view!](#)

[Love the Clock feature](#)

[Receiving is Amazing!](#)

[Perfect Sota Rig](#)

[Easy to Read](#)

[WOW! My MTR3B arrived today.](#)

POTA Activations

[Partial POTA at US-4567](#) On this POTA announced a mystery radio Jul 11, 2024 Thomas (K4SWL)

[Getting to Know You: The Mountain Topper MTR-3B QRP Transceiver--my thoughts and a POTA activation!](#) Youtube Sep 15, 2023 Thomas (K4SWL)

[Getting To Know You Series: The Mountain Topper MTR-3B — My thoughts, notes, and a POTA activation! | Q R P e r](#) Thomas (K4SWL)

[POTA with 3 Watts! Pairing the MTR-3B, EFHW, and a new speaker at Plisgah National Forest.](#) Jan 30, 2022 Thomas (K4SWL)

[Three watts of POTA power with the Mountain Topper MTR-3B, an EFHW, and Hazel! | Q R P e r](#) Thomas (K4SWL)

[POTA RaDAR Run Final Activation: Deploying PackTenna EFHW with throw line and MTR-3B QRP fun!](#) Mar 4, 2022 Thomas (K4SWL)

[POTA RaDAR Run Final Activation: Testing the new MTR-3B field kit at Tuttle Educational State Forest | Q R P e r](#) Thomas (K4SWL)

LNR MTR-3B the receiver as a single conversion of superheterodyne

On the LNR MTR-3B the receiver as a single conversion of superheterodyne had a crystal ladder filter with about 400 Hertz bandwidth and the local oscillator is synthesised.

Gemini Response: The single-conversion superheterodyne design and the crystal ladder filter with a 400 Hz bandwidth align well with what we expect for a CW transceiver like the MTR-3B. Here's a breakdown of what you mentioned:

- **Single-Conversion Superheterodyne:** This confirms that the LNR MTR-3B uses the superheterodyne design for its receiver, as previously discussed. However, it clarifies that it's a single-conversion design. In a single-conversion superheterodyne receiver, the received RF signal is mixed with the local oscillator signal only once to reach the intermediate frequency (IF).
- **Crystal Ladder Filter:** This type of filter is commonly used in CW transceivers due to its sharp selectivity. A narrow bandwidth of 400 Hz is ideal for CW reception, as it allows the radio to focus on the narrowband CW signal while rejecting unwanted signals outside that bandwidth. This improves the signal-to-noise ratio and makes weak CW signals easier to hear.
- **Synthesized Local Oscillator (LO):** This means the LO frequency is generated electronically using a voltage-controlled oscillator (VCO) and other components. This allows for precise tuning and stability compared to using a fixed-frequency oscillator crystal.

Overall, the details you provided paint a clear picture of a well-designed superheterodyne receiver optimized for CW operation in the LNR MTR-3B. The single-conversion design simplifies the circuitry compared to multi-conversion superheterodyne, while the crystal ladder filter with a narrow bandwidth ensures excellent selectivity for receiving CW signals.

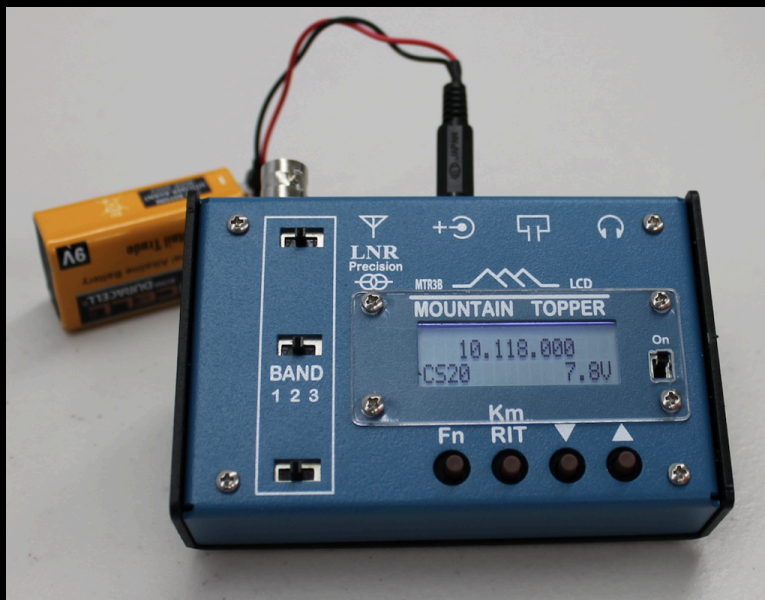
MTR-3B_LED (Production ended 2/11/16)

- This version featured an RCA jack antenna jack, Single LED display
- [Mountain Topper Radio Review \(MTR3B\)](#) Literally the size of a deck of cards

MTR-3B_LCD (Production run was 9/29/18 to 8/28/20)

LNR Precision Link

- This version featured BNC antenna connector and an LCD screen
- Update: 5/1/23: On May 1 at Noon ET, we are releasing a limited batch of MTR4 V2.3 available for purchase. Apologies that this is a limited release, but our part supplies are limited for this model. *(so may need to be updated for more available parts)* If we can, we may offer another run later this summer but that is not guaranteed.
- [MTR-3B_LCD user-manual 9-29-18](#) User Manual



The Mountain Topper redefines Portable CW with a gorgeous LCD screen in a small lightweight enclosure! (Ended its run 8/28/20)

The Mountain Topper Rigs are designed to be a very small, light weight, very battery efficient, multi-band CW rig suitable for field operation. The small size and low weight make this rig ideal for SOTA operators and backpackers.

Features: (Ended its run 8/28/20)

- 3 band operation – 40 / 30 / 20 Meter. **(2024 version is planned to have 40 / 30 / 15 Meters. Other specifications may also be changed.)**
- Wide power supply operation – 6V to 12V.
- Low operating current – 20 ma @ 6V, 15 ma @ 12V. *(A well liked feature)*
- 5+ Watts out at **12V supply**, 2.5-3W at 9V supply. *(Must be no more than 12v)*
[AnyVolt 3 Universal DC-DC Converter for Lifepo4 batteries](#)
- Easy to read 2 line LCD display with back lighting.

- Push button tuning and audio limiting eliminates protruding knobs.
- Iambic B mode keyer, 9 to 31 WPM range in 1 WPM steps
- **Three, 63 character message memories** with beacon mode.
- Optional **decoding and display of Morse being sent via paddle**. Know you are sending good code.
- Built-in 24 hour real time clock.
- Battery backup restores last used settings on power up
- [MTR3B new owner questions – LNR Precision Inc](#) The plug is indeed the same as Yaesu in FT817 or VX handheld series – **it is 4.0 / 1.7mm plug**



#466b8c - Red 70 , Green 107, Blue 140

Default PC color Dark Cyan 1

COLOR pick about: #4b648c - Red 75 , Green 100, Blue 140 - computer puts it close to Dark Cyan 1

Another COLOR pick: #466b8c - Red 70 , Green 107, Blue 140 - computer puts it close to Dark Cyan 1

Another COLOR pick: #3c5a7d - Red 59 , Green 92, Blue 125 - computer puts it close to Dark cornflower blue 3 Hmmm???

Default PC color #1c4587 , 28 G 69 , B 135 Dark cornflower blue 3

8/28/20 Production Run Complete.

MTR 3-B_2024 (Exact 2024 model number TBA)

We are shifting focus on a new redesign of the MTR-3B by the end of 2024 and details will be forthcoming.

We are also in full production mode of a newly redesigned MTR3B for the end of 2024 and hope to release official details and features by end of August.

- The 2024 version is planned to have 40 / 30 / 15 Meters.
- Other specifications may also be changed.
- [Did you know there's a new MTR-3B in the works-? | Q R P e r](#)
 - Online Blog magazine. Paul A. made a comment.
 - Likely around \$269.99.
 - No VFO dial, use buttons or key to input frequency.
 - Made with NC, USA warranty.

LNR MTR-3B 2024 Redesign: A Compact CW Radio

Generating Enthusiasm

The LNR MTR-3B 2024 Redesign is a highly anticipated update to a popular compact CW transceiver for the amateur radio (ham radio) community. Here's a summary of the key points we know so far:

Strong Customer Demand:

- The original MTR-3B was known for its small size, lightweight build, and focus on CW operation, making it popular among QRP enthusiasts and portable operators.
- Demand for the MTR-3B was high, prompting LNR to prioritize a redesign.

Redesign Features (Unconfirmed):

- LNR has not revealed specific details about the redesign.
- Speculation suggests the new MTR-3B might incorporate features from the MTR-4B, such as:
 - SWR meter
 - Power output meter
 - More accessible sidetone control

Potential Release Date:

- LNR's website suggests a target release date of "Fall 2024" but acknowledges there might be delays.

Reviewer Activity:

- Comments from a YouTube conversation hint at a potential upcoming review for the MTR-3B redesign by Evan Thorson K2EJT, a well-respected reviewer of QRP radios.
- This suggests a review might be forthcoming once a Non-Disclosure Agreement (NDA) allows it.

Where to Stay Updated:

- Keep an eye on the LNR Precision website ([LNR Precision](#)) for official announcements.

- Monitor QRPer.com ([Did you know there's a new MTR-3B in the works--? | Q R P e r](#)) for potential review updates.
- Follow Evan Thorson K2EJT's YouTube channel ([Evan Thorson K2EJT - YouTube](#)) (if available) for potential review announcements.

Overall:

The LNR MTR-3B 2024 Redesign is generating excitement in the ham radio community, particularly among QRP enthusiasts and POTA/SOTA activators. While the exact release date and features remain unconfirmed, the potential for a reviewer preview soon and an official release later in 2024 keep anticipation high.

Important Note: This synopsis is based on publicly available information and may not be entirely accurate. It's always best to rely on official announcements from LNR Precision for the most up-to-date details about the MTR-3B redesign.

GENERAL LNR PRODUCT UPDATES HISTORY

MTR5B (11/1/21): Production run complete. Considered re-release in 2022 but with the updated design work of the MTR4b version 2.3, it will essentially replace the 5b. The 4b is smaller, weighs less and has an updated design. We may consider alternative bands for the 4b in future years.

MTR3b_LCD (End run version 8/28/20): **We have completed the current production run of the massively popular MTR3b_LCD. The newly re-design of the MTR4b (version 2) contains all the features of the MTR3b_LCD plus additional functions so in many ways it will serve as a replacement of the 3b.** However, we acknowledge the lower price point and slightly smaller enclosure. **We are considering another run of the MTR3b_LCD, but it will not occur until 2022, if at all.**

MTR-SSB development: (12/6/19): We regret to inform you that the new MTR-SSB transceiver will not be released as planned. In most simplest terms, there are some technical limitations preventing operations when extending it to the 40M/20M bands. The 80M/60M bands for the emergency communications interest are not affected. **The minimalistic nature and outstanding reliability in all of the Steve Weber KD1JV**

Mountain Topper designs are well documented and will not be compromised which I'm sure everyone appreciates. So while we are all disappointed, we are gauging interest in the 80M/60M version in 2020 and are considering special single band versions as well.

EndFedZ Antennas (Acquisition): LNR is pleased to announce that the PAR EndfedZ line of wire antennas was acquired by Vibroplex in 2019. Customers can purchase these antennas directly at their website at Vibroplex.com. This move is a positive for both companies and we are excited about the future going forward.

W4OP Loop: Unfortunately, as part of our streamlining in 2019, we halted production of the W4OP Loop antennas to devote our entire attention on the very popular Mountain Topper transceiver line. The W4OP (remote and manual controlled versions) are phenomenal antennas and would be a great product line for another company or interested entrepreneur to pick up. If interested, contact LNR.



Mountain Topper Facebook Group Page [Mountain Topper Facebook Group Page](#) – Cool customer driven FB page to share stories, pics and general MTR discussion.

MTR-3B Reviews 2020 version

10 USA DX CONTACTS WITH QRP

Running mtr-3b lcd 2.5 watts 15,000+ kilometer contacts – Bushcraft Ham Radio



Bushcraft Ham Radio





I thought you might enjoy the attached two photos of an activation I did today with the new 3B-LCD MTR. This was near Makapu'u lighthouse on Oahu today. Antenna was the End Fed. 10/20/40.

Glenn KW4TO

Love the Clock feature

"The new MTR-3b with the LCD display is a major upgrade for the Mountain Topper. The display provides frequency readout, clock with battery backup, keyer speed and battery voltage while reducing the very low current draw from 35 mA to only 15 mA. The new LCD frequency readout makes the new Mountain Topper much easier to tune. The Mountain Topper is a great "purist" radio for SOTA and other outdoor activities." -W3DX

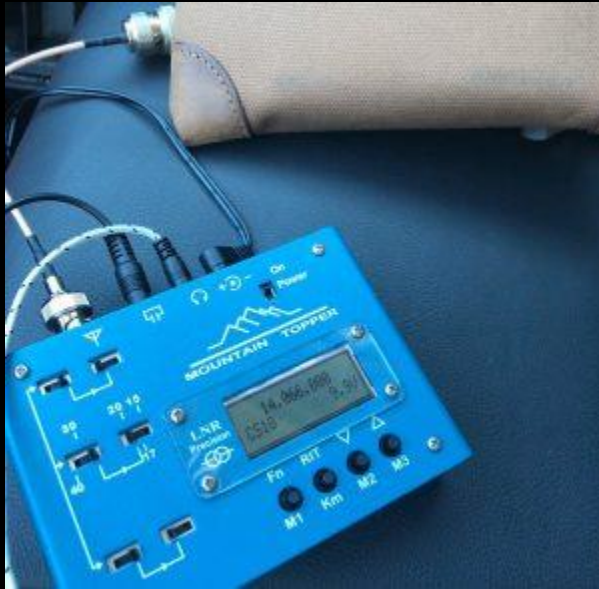
2020 version



W3DX

Receiving is Amazing!

This little [#hamradio](#) is amazing. It's so fun to use. The reception is amazing. K0EAP
2020 version



K0EAP

Perfect Sota Rig

I've owned and operated a lot of the MTR-series from the original Weber kits to this latest one from LNR ...I got to say this one with its large LCD display makes it look and feel like a big bench rig yet small enough to fit in your pocket! Perfect SOTA CW rig!

2020 version



wG0AT

Easy to Read

I received my MTR-3B today and love it. I was afraid that the display might as difficult to read as the one on my MTR-5B but it is not the case, it is very bright and easy to read. Having the 2 lines display is a huge improvement over the single digit on my old MTR-3B. **2020 version**



Yvon NU6I

WOW! My MTR3B arrived today.

What an amazing little radio. This will definitely go in my backpack next summer. With antenna, batteries, key and earphones, I believe I can have an HF station, in a padded, waterproof case, at under 3#. This rig redefines HF "portable". – K7SFA **2020**

version