



**KX3 Mini-Manual Updates
for compatibility with
Elecraft Firmware Revisions**

The Nifty KX3 Mini-Manual is periodically updated as Elecraft posts firmware updates that affect the radio's operating procedures. The version of firmware a Mini-Manual was released at is shown on the back cover of the guide.

When purchasing the KX3 Mini-Manual from our web page, the firmware version that the Mini-Manual has been checked against, and revised if necessary, is described in this document. Some revisions do not affect operating procedures in the Mini-Manual.

This document identifies changes that have been made to the KX3 Mini-Manual for compatibility with various KX3 firmware releases. Only revisions that affect the radio's operating procedures are incorporated into the Mini-manual. Bug fixes, alignment procedures, performance improvements and similar changes generally do not affect actual operating procedures.

It is our intent to continue updating the KX3 Mini-manual as Elecraft makes firmware and other improvements to this very excellent transceiver.

Thank You,

Bernie Lafreniere, N6FN

Mini-Manual Updates by KX3 Firmware Revision

The **MCU 2.34, DSP 1.33** Beta firmware release dated 8-16-15 increased power output capability on 10V input and also included a couple of bug fixes. An experimental QSK option for reducing audio artifacts added one sentence to the CW WGHT menu description, to include the new Tap [3] that selects the OLD or NEW QSK modes.

The **Nifty Guide for the KX3 2M/4M Transverter Option** used to be a separately purchasable Supplement Page, to be placed in the KX3 Mini-Manual. With this release, the Transverter Option instructions are now included as a part of the KX3 Manual. The cost of the separate Transverter Option guide was \$5.95. With the addition of the Transverter guide into the KX3 Mini-Manual, the cost of the KX3 guide has increased from \$20.95 to \$22.95.

The **MCU 2.33, DSP 1.33** Production firmware release dated 1-7-15 includes the changes from the prior beta releases and a couple of performance improvements and bug fixes. However, the firmware release did not affect any operating procedures in the Nifty KX3 Mini-manual.

The **MCU 2.30, DSP 1.32** beta firmware release dated 12-3-14 improved speech compression performance and also improved performance of 2-M/4-M SSB power output, CW timing and fixed a direct frequency entry bug. However, as these were primarily fixes, the firmware update did not affect any operating procedures in the Nifty KX3 Mini-manual.

The **MCU 2.25, DSP 1.30** production firmware release dated 10-23-14 fixed some outstanding bugs and added three Host Commands (software interface commands) in support of the PX3 option. This firmware update did not affect any procedures in the Nifty KX3 Mini-manual.

The **MCU 2.24, DSP 1.30** beta firmware release dated 10-2-14 added some features in support of the PX3 option. This firmware update did not affect any procedures in the Nifty KX3 Mini-manual.

The **MCU 2.21, DSP 1.30** firmware release dated 9-16-14, corrected a number of issues/bugs and added additional support for the PX3 Panadapter and the 2M/4M Transverter modules.

None of these changes affected the instructions found in the KX3 mini-manual. The panadapter related menus and instructions are covered in a separate Nifty PX3 Panadapter mini-manual. And the 2M/4M Transverter module related menus and instructions are covered in a one-page supplement that can be added to the KX3 mini-manual. The PX3 Panadapter mini-manual and the supplemental transverter page can be found on our Elecraft products webpage.

http://www.niftyaccessories.com/Elecraft_RefGuide.htm

The **MCU 2.12, DSP 1.30** firmware release dated 7-11-14, added *Fast Message Play* capability for both CW and DVR (voice) modes of playing pre-recorded messages. Instructions for *Fast Message Play* were added to the Mini-manual on pages 9 and 10.

This firmware release also made improvements in 40-meter filtering, serial communication, improved tuning accuracy of the KXPA100 amplifier and added support for the PX3 Panadapter, but these required no changes to the KX3 Mini-manual. Note: Instructions for operating the PX3 Panadapter are found in the Panadapter Mini-manual.

The **MCU 1.94, DSP 1.28** firmware release dated 3-8-14, made some improvements in operation and fixed a couple of bugs, but no changes were required in the Mini-manual.

The **MCU 1.87, DSP 1.28** firmware release dated 11-26-13 fixed a low supply voltage detection problem when the KXPA100 is connected. Also a problem in the TX Gain menu was fixed and Mic gain range was increased to support the Heil HC-6 Mic element. Neither of these fixes required any changes to the Mini-manual. A new menu entry was added to improve broadcast band reception under 1300 kHz, which was added to the manual.

The **MCU 1.68, DSP 1.23** firmware release dated 9-24-13, made some improvements in low power setting operation and fixed a couple DATA-A/AFSK/etc bugs and fixed a problem with power settings under 1 watt. A change that disallows compression when ESSB is enabled required adding an explanatory note to the Mini-manual.

The **MCU 1.57, DSP 1.22** and **MCU 1.61, DSP 1.23** firmware release dated Aug 31, 2013 added some improvements to performance, fixed a couple of bugs and made some roofing filter and ESSB mode operating improvements. The roofing filter and ESSB procedural changes were added to the Mini-manual, the other items required no changes.

The **MCU 1.54, DSP 1.21** firmware release of July 29, 2013 added functionality for SSB-in-CW operation. As the procedure was already in the Mini-manual, no changes were necessary, except to add a comment about tapping the Keyer/Mic to toggle between *keyer speed* and *mic gain* when in CW-in-SSB mode.

The **MCU 1.50, DSP 1.21** firmware release of May 24, 2013 made some improvements to the speech compression algorithm and slightly revised the recommended adjustment procedure. Implementation improvements were also made to the Noise Blanking and Noise Reduction adjustment procedures. These changes resulted in several minor adjustments to the Mini-manual procedures in the affected areas.

The **MCU 1.41, DSP 1.13** firmware release of March 26, 2013 added a menu for adjusting brightness of the front panel LEDs. In addition, some improvements in the AF Gain control and speaker performance were made which did not affect the Mini-manual.

The **MCU 1.38, DSP 1.07** firmware release of March 1, 2013 added the ability of programming the [PF1] and [PF2] switches with switch macros.

The **MCU 1.36, DSP 1.05** production firmware release of January 5th, 2013 added the option of using the Width/Shift method of adjusting the passband tuning in SSB mode. A few other minor improvements / changes to the KX3's AGC operation and some new programmer interface commands which did not affect the Mini-manual.

The **MCU 1.34, DSP 1.04** beta firmware release of January 2, 2013 added DVR functionality to the KX3. The operating instructions accompanying this release resulted in a couple of minor changes being made to the "proto" DVR procedure that already was in the mini-manual.

The **MCU 1.30, DSP 1.02** production firmware release of December 6th, 2012 improved SSB carrier rejection and corrected a problem with CWT lockup. Consequently no changes were necessary to the operating instructions in the mini-manual in support of this release.

The **MCU 1.28, DSP 0.99** firmware release of November 19, 2012 corrected RIT / XIT and Transverter entry bugs. Also a change was made to the “OM” command for software developers. Consequently no changes were necessary to the operating instructions in the mini-manual in support of this release.

The **MCU 1.27, DSP 0.99** firmware release of November 1, 2012 corrected a KXBC3 communication bug and improved a couple of alignment procedures. Consequently no changes were necessary to the operating instructions in the mini-manual in support of this release.

The **MCU 1.23, DSP 0.99** firmware release of October 17, 2012 corrected several bugs and improved a couple of alignment procedures. Consequently no changes were necessary to the operating instructions in the mini-manual in support of the October 17 revision.

The **MCU 1.22, DSP 0.99** firmware release of September 26, 2012 corrected several bugs and made a couple of performance improvements. None of these affected operating instructions, however this release also provided support for the optional KXBC3 Battery Charger which has recently started shipping. Consequently some of the battery charging related information already in the Mini-manual was updated to the descriptions provided in the latest Elecraft KXBC3 manual.
