



# ELECRAFT® K3 Transceiver

High Performance • 160-6 Meters • 100 W



## The Only Affordable — and Portable — Elite-Class Transceiver

Surveying the many HF transceivers on the market, you'll find only a few that rise to the top: those which combine a stunning array of features, fully independent subreceiver, a high-performance analog front end, and I.F. DSP. Unfortunately, they all have equally stunning price tags.

Now, Elecraft is bringing the high-end rig back to earth with the K3. At a fraction of the price of other transceivers in its class, it's the only "dream" radio that leaves your world-travel budget intact. And at only 8 pounds (and 4x10x10"), you *can* take it with you! The K3 excels wherever the action is — demanding Field Day sites, remote DXpedition outposts, high-power contest operations — or the comfort of your own home station.

## No-Compromises Sub Receiver

Within the top echelon of transceivers, only the K3 offers state-of-the-art main *and* subreceivers with crystal roofing filter bandwidths as narrow as **200 Hz**. Each receiver accommodates five crystal filters, and has its own DSP subsystem, a high-level **switching-mode mixer**, and a low-noise phase-locked loop synthesizer for superior dynamic range. Both receivers also feature narrow ham-band filtering, as well as optional general-coverage band-pass filters for the 0.5-30 MHz range.

## Professional-Grade 32-Bit I.F. DSP

The K3's two 32-bit DSPs provide true software-defined features, and plenty of expansion memory to handle future signal processing tasks and operating modes. You'll have full control over any operating situation, with 8-band receive and transmit EQ, stereo speaker/soundcard outputs, binaural effects, and advanced noise reduction. There's even built-in PSK31, CW, and TTY decode/encode, so you can enjoy the excitement of data communications **with or without a computer!**

## 100 Watt or Upgradeable 10-Watt Model

Choose from two models: the **K3/100** or **K3/10**. The K3/10, which can be easily upgraded to a K3/100 at any time, offers the same exciting features and performance at lower cost.

## Factory Assembled or No-Soldering Kit

Along with the K3, Elecraft introduces a new construction concept: the modular, no-soldering kit. All modules are pre-assembled and 100% tested, ensuring identical performance whether you purchase your K3 factory assembled or build it yourself — saving money in the process.

As you build, you'll learn the electronics theory behind the radio: how each module works and how it fits into the big picture. Your new skills will make it a snap to add options or do future upgrades.

Of course, we hope you'll take the plunge and try building one of our many traditional kits, too, such as our KX1, K1, and K2.

## Get the Latest K3 DSP and Microprocessor Features Directly from the Internet

Upgrading the K3's software takes just *one* click, thanks to our convenient K3 Downloader PC application. The program automatically checks our server and lets you know when new versions are available. Downloads are done at high speed (38.4 kb) via the built-in RS232 port. (USB adapter available.)

## Legendary Customer Support

Elecraft is committed to customer satisfaction (just ask our customers!). In addition to phone and email support, we provide manuals, answers to frequently asked questions (FAQs), and free application programs on our web site. You'll also have access to our very active email discussion list, where you can pose any technical question — no matter how simple or in-depth.



### K3 STANDARD FEATURES

- 160-6 meter ham-band coverage; optional general-coverage filters
- High-contrast, full-custom LCD with alphanumeric text display
- 100-W or 10-W (upgradeable) models
- 32-bit I.F. DSP
- Rich I/O complement (see rear-panel drawing above)
- All modes: SSB, CW, Data, AM, FM
- Built-in PSK/TTY decode/encode allows data mode operation without a PC by using your CW keyer paddle
- High performance DDS/PLL Synthesizer with TCXO reference
- All radio firmware updateable with provided application software

### RECEIVER

- Down-conversion architecture with narrow ham-band filtering for superior close-in dynamic range
- Optional subreceiver with performance identical to main receiver
- High-level switching-mode first mixer
- Crystal roofing filters as narrow as 200 Hz, including variable-passband models that closely track DSP I.F. and A.F. filtering
- Switchable preamp and attenuator for extreme conditions
- 1 Hz tuning resolution
- Optional general coverage filters (main and sub)
- 32-bit floating point IF DSP (dual DSPs with sub receiver installed)
- IF filters to 200 Hz, AF filters to 50 Hz; 8-band RX equalizer
- Easy-to-use Shift/Width/HiCut/LoCut controls w/ DSP passband display
- Automatic and manual notch filtering
- Adjustable noise reduction
- Hardware *and* DSP noise blankers with individual level controls
- Tuning indicator for CW and data modes

### TRANSMITTER

- Adjustable output, 0.1 to 10 W+ or 100 W + (with KPA3 option)
- Rugged, SWR-protected finals; dedicated PA circuit breaker
- DSP I.F. speech processor for maximum DX punch
- Dual 4-speed fans for 100-W module
- Fast, silent, PIN-diode T-R switching – no relays
- 8 band Equalizer tailors the radio to your voice and microphone

### OTHER FEATURES

- Internal CW keyer with dedicated message controls also usable in voice modes (with DVR option)
- One-click firmware upgrades via the web (with free PC software)
- Isolated soundcard interface
- Complete control via computer port
- Over 100 VFO memories

### OPTIONS AND CRYSTAL FILTERS

**KRX3 High Performance Subreceiver**  
**KAT3 100-W Internal Autotuner with 2 Ant. Jacks**  
**KPA3 100-W Internal PA**  
**KBPF3 General Coverage Receive Filters**  
**KDVR3 Digital Voice Recorder**  
**KXV3 Transverter Interface w/ RX Ant. In/Out Jacks**

**KFL3A-( ) 8-pole Fixed-Width Roofing Filters:**  
**.25, .40, 1.0, 2.1, 2.8, 6.0 (AM), 15 kHz (FM)**  
**KFL3A-( ) 5-pole Fixed-Width Roofing Filters:**  
**.20, .50, and 2.7 kHz (2.7 kHz supplied with K3)**  
**KTCXO3-1 1 ppm TCXO (firmware-corrected to 0.5 PPM)**  
**USB Adapter**  
**MH2 Elecraft Hand Microphone**



**ELECRAFT**® Hands On Ham Radio™  
 PO Box 69, Aptos, CA 95001-0069

**Phone: (831) 662-8345** **FAX: (831) 662-0830**  
 sales@elecraft.com www.elecraft.com