ELECRAFT® K3 Transceiver

High Performance • 160 - 2 Meters • 100 W

The Only Affordable, and Portable, Elite-Class Transceiver – Now with optional P3 Panadapter

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 has brought 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 and Panadapter

Within the top echelon of transceivers, only the K3 offers state-of-the-art, identical main *and* subreceivers with crystal roofing filter bandwidths as narrow as 200 Hz. Since the two receivers are independent, the K3 can provide true, dual-antenna diversity-mode reception, ideal for weak-signal work.

Professional-Grade 32-Bit I.F. DSP

The K3's two 32-bit DSPs provide true software-defined-radio features. You'll have 8-band receive and transmit EQ, stereo speaker/soundcard I/O, binaural effects, and advanced noise reduction. There's even built-in PSK31, CW, and TTY decode/encode so you can use data modes without a computer.

High Performance P3 Panadapter

Like the sub receiver, the K3's optional P3 Panadapter delivers performance and features superior to those found in other transceivers. The P3 integrates seamlessly with the K3. Its bright, full-color display provides both spectral and waterfall displays, with both a much faster sweep rate and significantly better sensitivity than most built-in panadapters. You can adjust the sweep span from 2 to 200 kHz, and use 'select and tap' with the P3's VFO A/B markers with to QSY the K3 to any signal.

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.

Add 2 Meters with our K144XV Internal Option

Expand the K3's coverage to 144-148 MHz with the K144XV and operate FM, SSB, CW and Data modes on 2 Meters.

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, or K2.

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

Upgrading software in the K3 (or P3) 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

- 160-2 meter ham-band coverage (2 m requires the K144XV option)
- High-contrast, full-custom LCD with alphanumeric text display
- 100-W or 10-W (upgradeable) models
- 32-bit I.F. DSP (dual DSPs with sub receiver installed)
- Rich I/O complement (see rear-panel illustration above)

- All modes: SSB, CW, AM, FM, Data
- Built-in PSK/RTTY 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 K3Utility software

RECEIVER

- Down-conversion architecture, narrow ham-band filtering and switching-mode first mixer for superior close-in dynamic range
- Optional subreceiver with performance identical to main receiver
- Switchable preamp and attenuator for extreme conditions
- 1 Hz tuning resolution
- Optional general coverage band-pass filters (main and sub)
- IF filters to 200 Hz, AF filters to 50 Hz; 8-band RX/TX equalizers

- Synchronous AM Receive or envelope detection
- Easy-to-use Shift/Width/HiCut/LoCut w/ DSP passband display
- Automatic and manual notch filtering
- Adjustable DSP noise reduction
- Hardware *and* DSP noise blankers with individual level controls
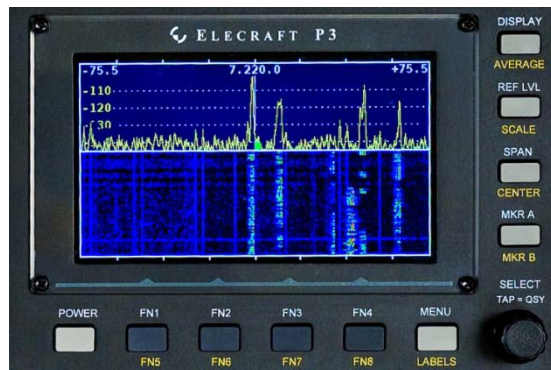- Center tuning indicator for CW and data modes

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 with noise gate 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

- K144XV option adds 144-148 MHz 10W all-mode operation
- Internal CW keyer; record/playback controls also usable in voice modes (with DVR option)
- One-click firmware upgrades via the web (with free PC software)
- Isolated soundcard interface for data modes and remote control
- Up to 8 user-programmable switch 'macros' allow automation of often used sequences such as SPLIT, A>B, VFO up 2 kHz, sub RX on, etc.
- 100 general-purpose VFO memories, plus 4 'quick memories' per band (plus a free memory editor utility for use on your computer)
- P3 DSP Panadapter integrates transparently with the K3
    - o   Spectrum and Waterfall Displays (split or full screen)
    - o   Superior Sensitivity for weak signal work
    - o   Select and Tap QSY tuning of the K3

P3 Panadapter spans 2-200 kHz with both spectrum and waterfall displays

OPTIONS AND CRYSTAL FILTERS

KRX3 High Performance Subreceiver

KAT3 100 W Internal Autotuner with 2 Ant. Jacks

KPA3 100 W Internal PA (for K3/10 upgrade to 100 W)

KBPF3 General Coverage Receive Band-pass Filters

KDVR3 Digital Voice Recorder

KXV3a Interface with Transverter I/O, RX Ant & IF Output

P3 Panadapter (requires KXV3 or KXV3a)

K144XV 144-148 MHz 10 W internal module (requires KXV3a)

KFL3A-( ) 8-pole Fixed-Width Roofing Filters:

 .25, .40, 1.0, 1.8, 2.1, 2.8, 6.0 (AM), **13 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 (typ. 0.5 PPM over 10-50 C)

KUSB USB Adapter (FTDI Chipset)

MH2 Elecraft Hand Microphone

KPA500 500W Solid State Auto Band-Switch Linear Amplifier