

Elecraft K4/0 Remote Panel

Owner's Manual

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Introduction

The K4/0 is a compact, portable transceiver control panel, with WiFi connectivity and up to 5 hours of battery life. It has the same front panel features as the Elecraft K4. This provides a true K4 operating experience, with high-resolution optical encoders for VFOs A, B, and RIT/XIT offset; convenient, familiar operating controls, and user-defineable switch functions (via macros). The K4/0's rear panel connections are identical to those on the K4 in most cases, ensuring plug-and-play compatibility with station accessories.

"/0" in the K4/0's model name indicates a unit with zero power output – that is, the K4/0 is not a transceiver in itself. Instead it acts as a client for a remote K4 acting as an RF server.

Both units can be located anywhere that has internet access – wired or wireless. No custom interface device or third-party server is required, since the K4/0 and K4 communicate using a built-in peer-to-peer protocol. Full control, including panadapter and streaming audio, is possible over LAN/WAN, cell phone networks, satellite networks, and captive portals at hotels and other businesses.

Additional Documentation

Familiarity with the K4 is assumed in this manual. If the transceiver is new to you, we recommend downloading a copy of ***Introduction to the Elecraft K4***. It has 40+ pages of full-color illustrations identifying each of the controls, with example usage. It's also available printed and bound.

The K4/0 also shares the K4's **built-in operating manual**, a comprehensive reference covering equipment interfacing, operating instructions, use of the internal and external displays, menu entries, and K4 troubleshooting. To access this manual, turn on the K4/0 and tap the "?" button at the lower-left-hand corner of the LCD.

Specifications

Size	13.5 x 4 x 4" HWD (35 x 10 x 10 cm), less projections
Weight	4.5 pounds (2 kg)
Operating Temp.	0-60 C (32-140 F)
Current Drain	~1 A nominal; up to ~1.5 A when charging the battery while operating; up to ~2 A when charging the battery, operating, <u>and</u> powering accessories via AUX 12 V OUT and USB-A jacks. Total accessory current must be 0.5 A or less.
Display	Same as K4: 7" high-resolution color LCD, plus HDMI output up to 3840 x 2160
Speakers	2 internal; 1 or 2 external, 4 ohms minimum impedance
Power Supply	11-15 V via APP jack ($\geq$ 12.6 V if charging the battery from this jack), or USB-C (45 W USB-C supply recommended, e.g. Elecraft K4/0-CRGR-PS ; see <i>Accessories</i>)
Battery Pack	KBT4 (see <i>Accessories</i> , below)
WiFi	Dual-band, 802.11a/b/g/n/ac; external antenna included
Digital I/O	USB-A x3 (mouse, keyboard, K-Pod, flash drive), USB-B (sound card / COM ports)
Analog I/O	Headphone jacks x2 ($\frac{1}{8}$ " and $\frac{1}{4}$ "), mic x2 (8-pin and $\frac{1}{8}$ "), ext. speakers ($\frac{1}{8}$ ")
Control I/O	Key, Paddle, PTT IN, aux. 12 V output

Accessories

Several accessories are available for use with the K4/0:

K4/0-CRGR-PS Power Supply

This is a small 45W module that powers the K4/0 over USB-C. It can also charge the optional internal Li-Ion battery pack (KBT4, below) while the K4/0 is either on or off. **Note:** The USB-C connector on the K4/0 is only used for powering the unit and battery charging; it does not have data functions.

Dimensions	1.375" x 1.25" x 1.25" (3.5 x 3.1 x 3.1 cm)
Input	100-240 VAC; US style AC power plug
Output cable	USB-C cable, 6' (1.8 m)

KBT4 Internal Battery

The internal battery option—when combined with the K4/0's WiFi connectivity—allows fully untethered operation. The battery pack includes charge/discharge current limiting and thermal protection. The connector type is specific to the K4/0.

A pull strap for the battery pack is supplied to ensure safe extraction. ***Do not pull on the battery pack's wires.***

Voltage	10.8 V
Capacity	5200 mAh (56 W)
Operating time	~5 hours (less when powering accessories via 12 VDC OUT or USB-A)
Charge time	~8 to 10 hours for full recharge cycle
Configuration	6x 18650 Li-ion cells (3S2P)

MH4 Microphone

The MH4 is a condenser mic with an 8-pin connector, PTT button, Up/Down buttons, and a 2' (60 cm) coiled cord extending to 4' (90 cm). It can be used with the Elecraft K2, K3, K3S, and K4.

Bias to the front panel mic jack must be turned on when using the MH4. First tap the <TX> button (lower right-hand corner of the LCD), then tap <MIC INP> and select <FRONT>. Next, hold <MIC CFG>. If necessary tap the first button to change the setting to <BIAS ON>. Typically <PREAMP> is set to 10 dB and <BUTTONS> is set to UP/DN.

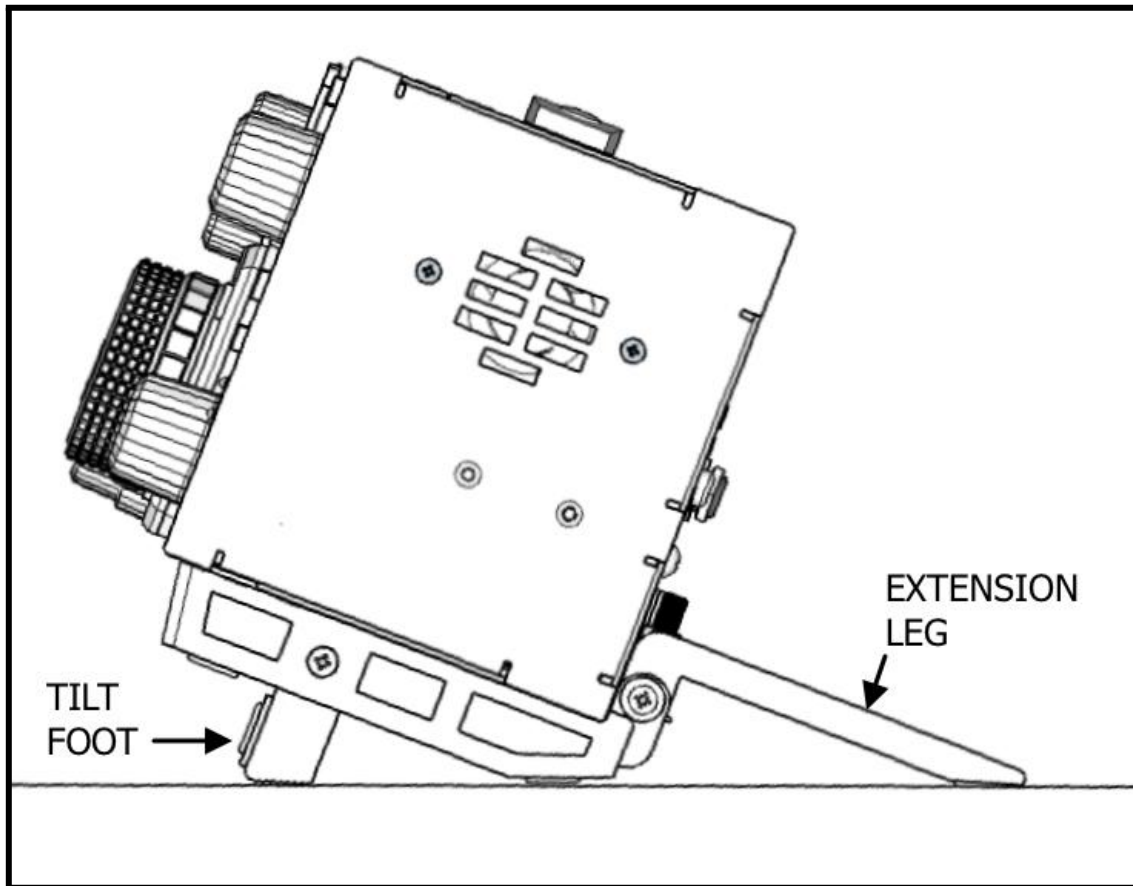
ES90 Carrying Case

The ES90 is a rugged, water-resistant, padded bag, custom-designed for storing and transporting the K4/0. It includes a sturdy carrying handle and multiple zippered compartments. The top section includes dividers for securely storing small accessories.

Installation

Tilt Stand vs. Shelf Operation

If you'll be operating the K4/0 on a desk or table, fold down the two tilt feet in front, and fold out the two extension legs in back, as shown below. This will establish an optimal viewing angle.



If your K4/0 will be placed on a shelf, at eye level, fold the tilt feet and extension legs into their stored positions. Make sure none of the enclosure ventilation holes on the top, bottom, or rear are obstructed by items on the shelf, or by another shelf above the unit.

If the unit is on a shelf and moves backwards when you press buttons, you'll need to provide a stop or bracket at the back.

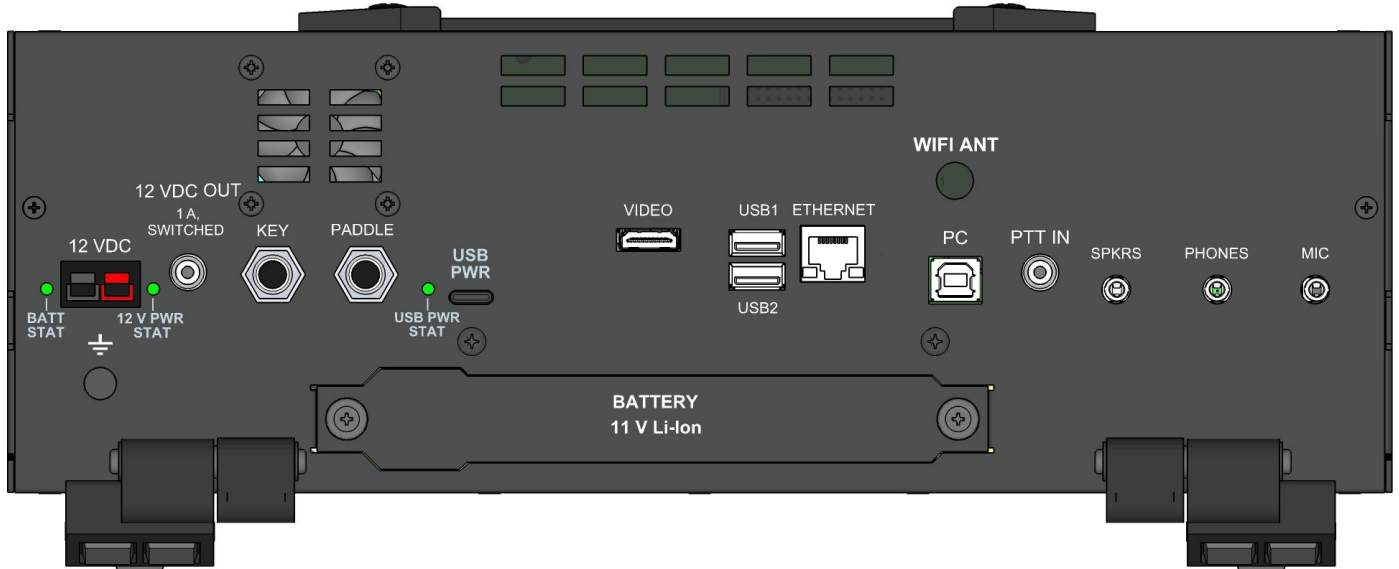
Protecting the K4/0 From Lightning and Other ESD Events

In some geographical areas, electrical storms may occur frequently enough that extra precautions should be taken with ham gear (as well as computers and electronics in general). If you live in one of these areas, station grounding is especially important. An excellent starting point is www.arrl.org/grounding.

Also consider installing protection devices and/or providing the means to conveniently disconnect vulnerable interfaces, including USB, Ethernet, and HDMI. This can reduce the likelihood of repairs.

Rear Panel Connections and LEDs

All K4/0 rear-panel connections and LED indicators are illustrated and listed below. Most jacks are identical to their K4 counterparts. For additional details on connecting external devices, refer to the REAR PANEL CONNECTIONS section of the built-in operating manual.



BATT STAT	LED ON = charging; OFF = not charging or no battery; BLINKING = charge error	USB1*	USB-A; for mouse / keyboard / K-Pod / flash drive
12 VDC	APP jack; 11-15 V DC @ 1 to 2.5 A (see Powering the K4)	USB2*	USB-A; for mouse / keyboard / K-Pod / flash drive
12 V PWR STAT	LED ON = Power connected	ETHERNET	RJ-45; network connection
12 VDC OUT	RCA; up to 0.5 A output for use with accessory devices	WiFi ANT	SMA male (RP-SMA); WiFi Antenna
KEY	¼" (6.3 mm) barrel; hand key or external keying device	PC	USB-B; virtual sound card plus two virtual COM ports for PC use
PADDLE	¼" (6.3 mm) barrel; keyer paddle input	PTT IN	RCA; pull low to activate PTT
USB PWR STAT	LED ON = Power source connected to USB-C jack	SPKRS	⅛" (3.5 mm) barrel; for 1 or 2 external speakers (4 ohms min.)
USB PWR	USB-C; power IN (no data)	PHONES*	⅛" (3.5 mm) barrel; headphones
VIDEO	HDMI video output	MIC*	⅛" (3.5 mm) mic, with selectable bias (see Operation)

* The front panel has an additional USB-A jack, phones jack (¼", 6.3 mm), and mic jack (8 pin).

Powering the K4/0

- The **APP connector** can be used with an 11-15 V supply or battery. This is the same connector used in the K4 transceiver. For battery charging purposes, APP voltage must be 12.6 V or higher.
- The **USB-C connector can also be used.** This connector is only used to power the unit; it has no data functions. The optional **K4/0-CRGR-PS power supply** can be used for this purpose.

The power source used must provide adequate current (from 1 to 2.5 A):

- up to 1 A for the K4/0 itself
- up to an additional 0.5 A for battery charging
- up to an additional 0.5 A for accessories powered by the 12 VDC OUT and/or USB-A jacks (**total accessory current must be 0.5 A or less**)

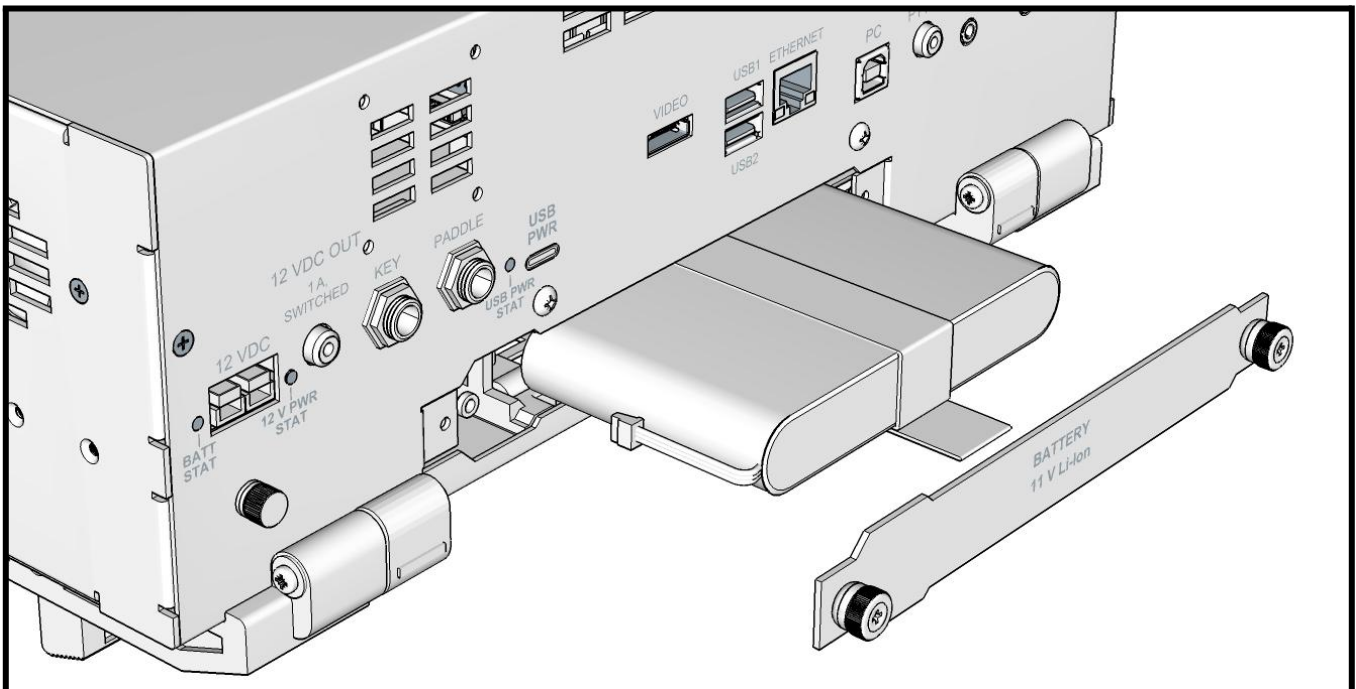
If you power the K4/0 from USB-C, a standard 45 W module is recommended to handle all of the above. The Elecraft **K4/0-CRGR-PS** meets this requirement. (Also see **Battery Charging**, below.)

Installing and Removing the KBT4 Battery Pack

To install or remove the KBT4 battery pack, first remove the battery compartment cover, as shown below.

When installing the battery, make sure the pack's wires emerge from the outer left corner (as viewed from the back). Plug the battery connector fully into the short extension cable emerging from the enclosure. Then slowly push the battery pack into its slot as far as it will go. Make sure the strap is at about the center of the pack. Push the extension wire and connectors inside before replacing the cover.

WHEN EXTRACTING THE BATTERY, DO NOT PULL ON ITS WIRES. Battery shorts could cause a fire, equipment damage, and possible injury. Instead, use the extraction strap. Grasp the free end and pull, sliding the battery out far enough to unplug the cable. The pack can then be safely removed.



Battery Charging

If a battery pack is installed, the K4/0 can automatically keep it charged, even when the unit is turned off. This requires that a suitable power source be connected as described earlier.

The BATT STAT LED lights when battery charging is in progress. The LED will blink if there is an error condition (see Troubleshooting).

NOTE: **The K4/0 Charging Enabled** menu entry will allow charge mode to be set to *If PWR On*, *If PWR Off / On*, or *Never*. The latter setting will allow the K4/0 to decide when to turn the charger on.

Network Interface

To use the K4/0 to control a server K4, you'll need either a wired Ethernet (LAN) connection to a router, or a WiFi connection. To use WiFi, the supplied antenna must be attached to the WIFI ANT jack. See **Operation** for details on establishing connections and setting up WiFi.

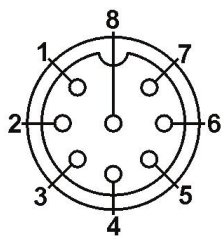
Audio Connections

Audio to and from a computer requires use of the K4/0's virtual soundcard interface, via the USB-B connector. (A USB-B to USB-A cable is supplied with the K4/0 for this purpose.) Consult software applications for setup information on the computer side. To configure the K4/0 for LINE audio levels, tap the LCD's <TX> button, then tap <LINE IN>.

You may connect headphones to the front or rear jacks, or both. Plugging in phones will disable both the internal and external speakers unless this is overridden using *MENU: Speakers + Phones*.

The K4/0 has two built-in speakers (on the left and right sides), providing full stereo audio when using dual receive or audio effects. If you prefer to use external speakers, powered or unpowered, plug them into the rear-panel EXT SPKRS jack. **A stereo plug should always be used**, even if only one speaker is plugged in. Use *MENU: Speakers* to specify one or two external speakers.

There are two mic jacks. An MH4 or compatible microphone with an 8-pin connector may be connected to the front-panel MIC jack (see connection diagram below). A mic fitted with a 1/8" (3.5 mm) plug may be connected to the rear-panel MIC jack. To select which mic is being used, use <TX> <MIC INP>. For mic bias and other controls, tap <TX>, then hold <MIC CFG>.



* Use <TX> <MIC CFG> to configure mic buttons

Pin #	Description
-------	-------------

1	Mic audio, low-Z (~600 ohms)
2	PTT *
3	DOWN button *
4	UP button *
5	FUNCTION button *
6	8V (10 mA max)
7, 8	Ground

Connecting Other Accessories

- Connect a hand key or keyer to the KEY input. You can also connect a keyer paddle to the PADDLE jack. In the latter case, the K4/0's internal keyer will be used, allowing transmitted text to be decoded and displayed. (Like the K4, the K4/0 supports text encode/decode via an attached keyboard or the keyer paddle in CW, RTTY, and PSK31 modes.)
- You may connect a mouse, keyboard, or K-Pod (or any combination of these) to any of the K4/0's USB-A jacks. The K-Pod provides 16 user-customizable functions and a weighted knob.
- A footswitch or other PTT activation device may be plugged into the PTT jack.

K4 I/O Connections Not Available on the K4/0

- **The K4/0 does not have a DE9 connector (RS-232).** For K4/0 computer control via software applications, you can use the virtual COM ports (USB-B).
- **There's no DE15 connector (ACC).** However, the K4's RTS/DTR controls for KEY IN, PTT IN, and FSK are still available via the virtual COM ports on the USB-B connector. Refer to the built-in operating manual for details on using the associated menu entries (for example, *MENU: Serial USB-PC1: DTR*). Also refer to PC software application manuals for K4-specific configuration.
- **There are no LINE in/out jacks;** instead, use the virtual sound card interface (USB-B).
- There is no **KEY OUT** jack on the K4/0. Amp keying is a function of the server K4.

Operation

For most purposes, using the K4/0 is identical to using the K4. It's also virtually plug-and-play with contesting, DXing, logging, and control software running on a computer at the client end. That said, there are important differences between the two which are covered in this section. If you're unfamiliar with K4 operation, we recommend going through our tutorial-style manual, ***Introduction to the Elecraft K4.***

Whether you're using a K4/0 or the K4, an additional, more comprehensive manual is available anytime it's needed: the **built-in operating manual**. To access it, tap the "?" button on the LCD (lower left-hand corner). You can find downloadable .pdf and .html versions of this manual on our K4 manuals web page.

Power-On Checks

When the K4/0 is turned on, there may be a delay of up to 25 seconds due to system self-tests.

Note: Turning the K4/0 on/off never turns a server K4 on/off. For server K4 on/off control, see:

<ftp.elecraft.com/K4/Manuals%20Downloads/Remote%20K4%20On-Off%20Control%20Methods.pdf>

Please check the following when you first power-up the K4/0.

- **Test the LCD touch screen:** If touching the screen results in incorrect control activation, you may need to do touch calibration. See [Troubleshooting](#) for instructions.
- **If you're using the internal battery,** be sure to check its charge status. You can tap the LCD's status area (where time/date or system parameters are shown), then hold <All Param> to see a full list of K4/0 voltages, including that of the battery. (*Pending feature: a way to configure the status area to show the K4/0's battery voltage or charge indication at all times.*)
- **If you're using a WiFi connection,** you can check signal strength. Tap the globe icon, then tap the <WIFI> button. A signal strength of 75% or higher will typically ensure glitch-free operation (provided that external network performance is adequate).
- **Your K4/0 software must be up to date** to ensure correct operation with server K4s. If you're not sure if your K4/0 has the latest software, see ***Updating Software*** later in this section.

Setting Up WiFi

If you'll be using the K4/0's WiFi capability, set it up as follows:

- Tap the globe icon on the K4/0's LCD, next to the "?" icon, to bring up the **Client Settings** screen.
- Tap the <WIFI> button; this will bring up the **WIFI Setup** screen shown below.
- Select a WiFi access point from the list at the top. If possible, choose one with a signal strength of 75% or better. The higher this number, the more reliable your K4/0-to-K4 connection will be.
- Tap <Connect>. If successful, you'll see **Connected to [WiFi SSID]** in the upper RH corner.
- If you need to try a different access point, optionally tap <Disconnect>, then select another.
- **If you're using a third-party WiFi system at a hotel or other business,** see the **Captive Portal** setup instructions which follow.
- Once you're connected and have gained access through a portal if required, tap <Close>.

WIFI Setup

Connected to MYWIFI73

SSID	Signal %
MYWIFI73	84

Enter SSID

Enter Password

Connect

Disconnect

Forget

Rescan

Check Internet

WIFI Turn Off

WIFI Turn On

Close

You can enter a new WiFi access point by entering its name and password in the associated fields. The on-screen keyboard will pop up when data entry is required. The keyboard supports upper- and lower-case letters, numerals, and special characters.

Additional tools include:

- **<Forget>** (remove an access point from the list)
- **<Rescan>** (restart the search for access points)
- **<WIFI Turn On> and <WIFI Turn Off>**. **If you're using a wired Ethernet connection**, tap **<WiFi Turn OFF>** to ensure the wired link is used.

Captive Portal Setup (Hotels and Other Businesses)

Some third-party access points only become available after entering an ID such as a hotel room number or password. In most cases the K4/0's **Captive Portal** feature can help you gain access, as follows:

- Tap <**Check Internet**>. If a screen appears confirming you're already connected, tap <**Close**>.
- If instead you see a third-party WiFi-access web page, look for and tap a button granting access (if applicable). If there's a field that must be filled in first, tap that field. The K4/0 will pop up a keyboard you can use to enter the required information. Fill the information and hit **ENTER**. Complete the process by tapping the site's access or confirmation button.
- Tap <**Close**> to exit the **Check Internet** screen, if necessary, then tap <**Close**> again to exit the **WIFI Setup** screen.

Note: In rare cases the K4/0's keyboard may not appear when a third-party information field is tapped. If you have a USB keyboard available, you may be able to use it for data-entry purposes; plug the keyboard into one of the K4/0's three USB-A jacks. (Please email support@elecraft.com to let us know the name of the business establishment and the problem encountered so we can improve our captive portal functionality.)

Establishing a connection to a server K4

- If you're using WiFi, complete WiFi setup first (as well as **Captive Portal** setup, if required).
- Tap the globe icon on the K4/0's front panel, next to the "?" icon. This will bring up the **Client Settings** screen.
- Select a server radio from the **Available Servers** list, if already defined. Tap the server of interest, then tap <**CONNECT**>.
- If the connection succeeds, the operating screen will now reflect that of the remote K4, and the globe icon will illuminate, showing an upward-facing arrow. If you see any other indication, the server may be busy, off-line, or unreachable due to network issues. For further details see **Troubleshooting**.
- To disconnect, tap the globe icon, then tap <**DISCONNECT**>.

To add a new server K4 to the list, you'll need its IP address (or an assigned name) and a password provided by the owner. Tap <**NEW**>, then tap <**Edit Connect**> and enter the Host name or IP address, a name of your choice to identify the remote K4, and the password. In each case a keyboard will appear on-screen. When this process is completed, tap <**SAVE**>.

Other important points:

- Port 9204 is the default port used for connections. You may specify an alternate port using IP:PORT format, e.g. 192.168.10.100:9204 (with a suffix calling out your alternate port).
- A K4/0 will also accept host commands from local software applications (e.g., for logging) via Ethernet, WiFi, or the serial ports. Behavior is identical to sending the commands to a K4.
- A server K4 may be configured to allow more than one client connection simultaneously. If you connect to a K4 that is obviously in use by someone else (VFO frequency moving, T/R switching in progress, etc.), you'll need to contact the station owner or other users.

Network Delays

When operating a K4 remotely using the K4/0 you may experience T/R and audio delays that vary with network type and bandwidth. Delays can be very short when controlling a K4 across the room on the same LAN, or quite long when using a satellite network or controlling a K4 thousands of miles away.

Client Latency Controls: If you hear frequent audio dropouts or otherwise suspect that your network is subject to long delays, tap the world globe icon and adjust the RX Audio Latency value by tapping the - and + buttons. The K4/0 continuously analyzes network traffic and attempts to use the lowest possible delay at all times, taking your RX latency setting into account.

CW QSK Settings: Even with very short network delays, QSK (full break-in) operation will be impacted to some degree. Most operators prefer to turn off QSK and use a small amount of VOX delay when operating remotely. A typical setting is .02 to .10 seconds, varying with connection quality.

Other Operational Differences between the K4/0 and K4

- **Transmit monitor audio** cannot be subjected to internet delays, as this would be very confusing during operation. To overcome this the K4/0 generates monitor signals locally. In voice modes the monitor will have the desired volume level, but will not reflect any signal processing (EQ or compression). Similarly, in CW mode sidetone is generated locally.
- **When the menu is used at the K4/0**, and a server K4 is connected, most entries will pertain to the K4. This is indicated by a globe icon at the far right side of the menu display (in the menu controls area). However, if no K4 connection is in effect, this icon will not appear.
- **CW messages, <Fn> macros, and frequency memories** can be defined at the K4/0 and will be stored locally. Messages, macros and memories stored on the server K4 itself will not be used.
- **At present the K4's pitch-mapping audio effect (AFX) is not available** when using the K4/0.

Updating Software

To update the K4/0's software: Tap <Fn> <UPDATE>. On the software update page, select the type of update desired using the pull-down menu (e.g. **Beta** or **Production**). An update may take from 1 to 20 minutes depending on how many software components are being updated. The progress bar (upper right-hand corner) provides a relative indication of remaining update time.

Note: It is also possible to update software on a server K4 over the remote connection. However, this advanced feature comes with some risk. If the update does not complete, a visit to the remote station might be necessary. Some remote K4s are outfitted with a method of power cycling, which may aid in recovery. **To update server K4 software remotely**, you must first set up a programmable switch macro (<Fn> <MACROS>) on your K4/0 as described in the built-in operating manual. Insert the host command "PS89;" into the macro. Save it, then execute it by tapping the associated <Fn> switch. The server K4 will then try to access Elecraft's software repository. Currently, there is no real-time feedback at the client (K4/0) during remote K4 software update; if/when it succeeds, you will be able to make a connection.

Troubleshooting

Rear-Panel LED Indications

If the **BATT STAT LED** is **OFF**, then either the battery is not presently being charged or there is no battery installed. If a battery *is* installed but the LED never turns on, turn off the K4/0 and remove the battery (see [Installing and Removing the KBT4 Battery Pack](#)). Make sure the battery and extension cable connectors are fully mated, then reinstall.

If an **APP power source is connected but the 12 V PWR STAT LED** is **OFF**, make sure the APP cable is fully inserted. Also check your external power supply or battery – make sure it is connected and turned on. Check fuses if applicable.

If a **USB-C power source is connected but the USB PWR STAT LED** is **OFF**, make sure the USB-C cable is fully inserted. Also verify that the USB-C power source is plugged in and turned on.

Touch Screen

If **LCD screen touch appears inaccurate**, you can recalibrate it using a built-in function that is activated by a control command. This command must be set up as a programmable switch.

First tap **<Fn>**, then hold **<MACROS>** to enter the editor for programmable switches. Using VFO A, scroll to an unused function, such as Fn.F1. Tap the second field on the line (macro name); this will bring up a keyboard you can use to give the switch a name, such as "Touch Cal". Finish by hitting ENTER. Next, tap the third field on the line and use the keyboard to enter "TC;". (The semicolon at the end is required.) Exit the macro editor by tapping the return arrow button.

Now you can tap **<Fn>**, then **<F1>** to calibrate touch. (Note: The text that appears when you do touch calibration is created by the operating system and is very small. There is no need to read these instructions) Tap each of the four points as they are illuminated. When finished, the touch screen should now accurately follow your finger position.

Error Messages

If an error message is displayed on the K4/0 LCD while connected to a server K4, the error usually pertains to the K4. See **ERROR MESSAGES** in the built-in operating manual in this case.

Error messages specific to the K4/0 are listed below.

[None at this time.]

General Troubleshooting

* **Powering up takes too long:** If the unit begins taking far longer than the normal 20-25 seconds to complete self-test, the coin cell battery on the single-board computer (SBC) may be depleted. Please contact support for instructions on how to replace the battery.

Customer Service And Warranty

Technical Assistance

Technical assistance is available to all of our customers. We encourage you to use e-mail for faster response to your questions. E-mail address is: support@elecraft.com. If you need replacement parts, send an e-mail to parts@elecraft.com. We typically respond to e-mail the same day from Monday through Friday. Telephone assistance is available from 9 A.M. to 5 P.M. Pacific time (weekdays only) at 831-763-4211. (For faster response, please use e-mail rather than call.)

Repair / Alignment Service

If necessary, you may return your Elecraft product to us for repair, calibration or alignment. If you purchased your Elecraft product from one of our Authorized Distributors, please contact them first. They can perform all of the factory calibrations that can be made at the factory.

REMOVE BATTERY PACK before shipping (see [Installing and Removing the KBT4 Battery Pack](#)).

CONTACT ELECRAFT BEFORE MAILING YOUR PRODUCT to obtain Return Authorization to begin the return process. When e-mailing, please provide your call sign, the product in question, and a description of what the problem is. We will reply with an e-mail that contains shipping instructions, and current information on repair fees and turn-around times. Our repair location may be different from our factory location. We will give you the address to ship your product to at the time of repair authorization. Packages shipped to Watsonville, CA without authorization will incur an additional shipping charge for reshipment to the required repair depot.

Elecraft 1-Year Limited Warranty

NOTE: You can find complete warranty information at elecraft.com/pages/warranty-repair. While warranty terms are subject change, we're committed to supporting you and your Elecraft product.

This warranty is effective as of the date of first consumer purchase (or if shipped from the factory, the date the product is shipped to the customer).

Who is covered: This warranty covers the original owner of the Elecraft product as disclosed to Elecraft at the time of order. Elecraft products transferred by the purchaser to a third party, either by sale, gift, or other method, who is not disclosed to Elecraft at the time of original order, are not covered by this warranty. If the Elecraft product is being bought indirectly for a third party, the third party's name and address must be provided at time of order to ensure warranty coverage.

What is covered: During the first year after date of purchase, Elecraft will replace defective or missing parts free of charge (post-paid). We will also correct any malfunction caused by defective parts and materials. Purchaser pays inbound shipping to us for warranty repair; we pay shipping to return the repaired equipment to you by UPS ground service or equivalent to the continental USA and Canada. For Alaska, Hawaii, and other destinations outside the U.S. and Canada, actual return shipping cost is paid by the owner.

What is not covered: This warranty does not cover repair of damage caused by misuse, negligence, battery leakage or corrosion, or builder modifications; or any performance malfunctions involving non-Elecraft accessory equipment. Also not covered is reimbursement for loss of use, inconvenience, or cost of unauthorized service.

Limitation of incidental or consequential damages: This warranty does not extend to non-Elecraft equipment or components used in conjunction with our products. Any such repair or replacement is the responsibility of the customer. Elecraft will not be liable for any special, indirect, incidental or consequential damages, including but not limited to any loss of business or profit

Change History

Rev. A2, 7 Nov. 2025

- Added LCD touch calibration instructions (Troubleshooting)
- Corrected max battery charge current and accessory current specifications
- Noted that a USB-A to USB-B cable is supplied for local PC → K4/0 control
- Added troubleshooting step regarding the coin-cell backup battery (excessive power-on delay)