

P3SVGA DATA TERMINAL QUICK START GUIDE

USB Keyboard

The P3/SVGA supports most basic PC USB keyboards. Simply plug the keyboard's USB plug into the back of the P3. A quick test to see if the keyboard is compatible is to press the Caps Lock key. If the Caps Lock LED on the keyboard illuminates, the keyboard should work. Note: Apple keyboards are not supported at this time.

Turning on Data Terminal

Press the MENU key on the P3 and rotate the knob to the SVGA Menu. Press the knob to enter the SVGA sub-menu. Rotate the knob to select SVGA Data and push the knob in to toggle it on or off.

Adjusting the TX / RX Window Sizes and Font

Using the P3, enter the SVGA Menu as outlined above. To adjust the RX Window Size, select:

- SVGA WinR Changes the size of the receive data window, size is in lines.
- SVGA WinT Changes the size of the transmit data window, size is in lines.
- SVGA FntD Changes the font, 0 is the smallest, 3 the largest.

The combined size of the RX and TX windows is limited to 40 lines. The above settings are interdependent. For example, if the RX window is set to 20 lines, the TX window cannot be greater than 20 lines. The size of the font also affects the number of lines available. **NOTE: if the TX window size is set to 0, the keyboard and TX window is deactivated.**

Waterfall Height

The data terminal occupies part of the waterfall screen. To allocate more screen area for the data windows, adjust the waterfall height.

Decoding Text

Before using the P3/SVGA Data Terminal, the K3 must first be configured for data/cw decode. Please refer to K3 manual to learn more about setting up data/text modes. A K3 keyboard macro can also be created to place the K3 into the desired operating mode. (Refer to "[K3 Macros](#)", below)

Using the Keyboard

- Pressing **Ctrl-H** brings up a simple help screen, press any key to exit.
- **Backspace** deletes the character to the left; **Ctrl-Backspace** deletes the word to the left.
- **Ctrl-Alt-M** brings up the K3 Macro entry pop-up. (see "[K3 Macros](#)")
- **Ctrl-Alt -T** brings up the Text Messages entry pop-up. (see "[Text Messages](#)")
- **Ctrl-Alt -S** brings up the Setup Menu. (see "[Setup](#)")
- **Ctrl-Alt-B** turns on beacon mode. (see "[Beacon Mode](#)")
- Pressing the **Scroll Lock** key freezes the RX data window. Press again to resume.
- **Ctrl-R** switches to receive. If the K3 is sending data/CW, pressing Ctrl-R will pause the transmission.
- **Ctrl-T** switches to transmit/restarts sending. If the transmit mode is ^T, pressing **Ctrl-T** starts sending.
- **Ctrl-C** clears the TX and RX windows.
- **ESC** switches to receive and clears the TX window.

Status Bar

At the bottom of the screen, a simple status bar shows the data sub mode. If the current mode is CW, a banner showing the list of CW prosigns is displayed. If a keyboard is connected, an asterisk is displayed at the far right position.

Transmit Mode and Setup

Press **Ctrl-Alt -S** to bring up the setup menu. Use the **Up/Down** arrow keys to select a parameter, and the **Left/Right** arrow keys to change the parameter. Use **Ctrl-Left/Ctrl-Right** to change the parameter by a larger increment/decrement for certain items. Pressing the **Esc** key exits setup and saves the parameters to non-volatile memory.

- **Transmit Mode** - CR, ^T, VOX
 - CR – The K3 will start sending text/CW only after the **ENTER** key is pressed.
 - ^T – The K3 will start sending text/CW only after Ctrl-T is pressed.
 - VOX – The K3 will start sending as soon as the first character is typed and will continue to send as characters are entered.

- **Transmit Timeout** - 0 to 90,000 ms (0 to 90 seconds in 200 ms increments)

When used with RTTY or PSK31, the K3 will continue to transmit for this delay period. During this time any data entered from the keyboard will be sent as part of the current transmission. Pressing Ctrl-R will immediately switch the K3 to receive and will pause transmission. Sending the '|' character will eliminate the delay and return the K3 to RX.

- **Transmitted Text Color** – 1 to 50

Sets the color of the transmitted text as it appears in the TX window.

- **TX Text Color** – 1 to 50

Sets the color of unsent text as it appears in the TX window.

- **RX Text Color** – 1 to 50

Sets the color of received text as it appears in the RX window.

- **Beacon Text Mem#** - 1 to 50

Sets the text message to use for Beacon Mode (see "[Beacon Mode](#)")

- **Beacon Interval** – 1 to 3600

Sets the beacon interval time in seconds (see "[Beacon Mode](#)")

K3 Macro / Text Message Entry

There are **50 K3 Macro** memories and **50 Text Message** (100 total) memories available. Each memory is invoked by pressing a user selected key on the keyboard. Each memory (K3 or Text) can hold up to 124 characters. K3 Macros and Text Messages are entered similarly. Macros and Text Messages are saved to non-volatile memory.

Press Ctrl-Alt-M to enter the K3 macro entry mode. A small blue window will pop up at the bottom of the screen. Use the **Up/Dn** arrow keys to move through the memories. To select a memory for editing, press the **ENTER** key. Next enter the key that you want to map this macro to. You can use the Alt, Ctrl, Shift and GUI modifier keys, for example Alt-Shift-D or Shift-F1, etc. Only a few keys are reserved and cannot be used. ***If the name of the key does not show after being pressed, then it is reserved or the key has already been used in a previous entry.***

Example #1, 14.070, data mode, PSK31 mapped to F1

- Press Ctrl-Alt-M to enter the macro entry screen.
- Press the Up/Dn arrow keys to locate an empty location. Empty locations are marked with "key: <empty>".
- Press ENTER
- Press the F1 key.
- Enter the macro by typing: FA00014070000;MD6;FA00014070000;DT3;
- If you make a mistake, you can use Backspace/Ctrl-Backspace or Ctrl-C to clear and start over.
- Press ENTER to exit edit mode.
- Press ESC to exit Macro Entry mode.
- Now, pressing F1 will send the macro to the K3, setting VFO A to 14.070, DATA, PSK31.

Note: Pressing ^F while entering a macro will place the current frequency including RIT into the macro in the form of an FA command. For example, if VFO A is set to 7.123 and ^F is pressed while entering a macro: FA00007123000; will be inserted into the macro string.

Text Macros are entered the same way, except **Ctrl-Alt-T** is used to enter the Text Message Entry screen.

Example #2, brag message mapped to Alt-B

- Press Ctrl-Alt-T to enter text message entry screen.
- Press the Up/Dn arrow keys to locate an empty location.
- Press ENTER
- Hold down the Alt and B keys together.
- Enter the text message: rig is Elecraft K3 with P3/SVGA.
- If you make a mistake, you can use Backspace/Ctrl-Backspace or Ctrl-C to clear and start over.
- Press ENTER to exit Text Message Entry mode.
- Now, pressing Alt-B on the keyboard will enter the text message into the TX window and it will be sent depending on the transmit mode.

Note: Placing a '|' (vertical bar) character anywhere within the text message will cause the K3 to revert to RX at the end of the message.

Example #3, clearing a memory

- Press either Ctrl-Alt-M or Ctrl-Alt-T to access either the K3 Macros or Text Messages.
- Use the Up/Dn arrow keys to navigate to the memory location you wish to clear.
- Press ENTER
- Press Ctrl-C, this will clear the macro and create an empty location.

Beacon Mode

Any one of the 50 possible text message locations may be set up to automatically transmit repeatedly using a programmable interval. The text message memory location and interval seconds are configured in the setup screen (see "[Setup](#)"). To initiate Beacon Mode, press Ctrl-Alt-B on the keyboard. When Beacon Mode is active, a flashing 'B' will be visible in the lower right corner of the status line. To cancel Beacon Mode, simply press any key except Ctrl-Alt-B.

Example, Set text message memory #5 as a 90 second beacon

- Press Ctrl-Alt-S to enter setup.
- Press the down arrow key to select Beacon Text Mem#.
- Use the right/left arrow keys to enter 5.
- Press the down arrow key to select Beacon Interval.
- Use Ctrl-Right/Right arrow to set the interval to 90.
- Press ESC to exit setup.
- Press Ctrl-Alt-B to initiate the beacon.

The beacon will start sending immediately and a flashing 'B' will be visible on the status line, in lower right corner of the screen. The interval time starts after the K3 sends the last character. If a station replies to your beacon, simply start typing your reply and beacon mode will be cancelled. To cancel the beacon immediately and clear the TX window, press ESC.