

## K1EL Systems WKmini Product Brief – Rev B – 2/16/2022

Thank you for purchasing a WKmini USB keyer. Please download product documentation from the URL listed below. The most important document is the WKmini User Guide. We highly recommend that you read the USB Driver section starting on page 3 of the user guide **before** connecting WKmini to your PC. **Rev B Uses a CH340 USB interface, drivers for this device are listed on the WKmini B webpage.** Since WKmini does not have a speed pot, be sure to configure your host application to disable speed pot use.

### Product Website

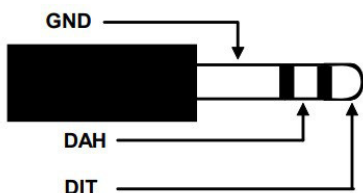
<https://www.k1elsystems.com/WKminiRevB.html>

### WKmini Features

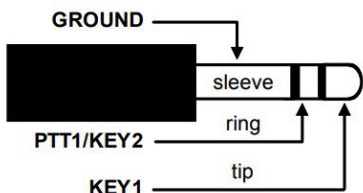
- USB 2.0 Interface with Mini type B connector
- CW Paddle Interface, iambic or single lever support
- Iambic A, B, Ultimatic & "Bug" paddle modes
- CH340 USB Interface IC with USB Mini B connector
- Two separate keying outputs OR
- One key output with PTT
- Solid state relay keying: +/- 60V max at 200 mA
- Outputs are optically isolated (5000V)
- No internal battery, WKmini runs off USB power
- Firmware can be updated over USB
- Keying indicator test LED
- Utilizes K1EL's latest WK3.1 IC
- Host only operation, no internal sidetone
- Custom high quality silkscreened metal enclosure
- ESD protection on USB and Paddle inputs
- Adjustable Speed 5-99 WPM
- Adjustable Weighting and dit/dah ratio
- Adjustable Keying Compensation
- Adjustable PTT lead in and tail delays
- Inexpensive cabling options
- Auxiliary input for future product enhancements
- Enclosure Size: 2.25" W by 1.75" D by .5" H



WKmini contains no internal adjustments or configurable jumpers, Please do not tamper with or modify the internal circuitry of WKmini as this will void the unit's warranty and may result in an unsafe operating condition.



There are four connectors on WKmini, two on the left side and two on the right, The left facing connectors are labeled PDL and OUT. The PDL connector is an 1/8" stereo jack which accepts paddleset input. The paddle can be an iambic or single lever, a bug is not acceptable. The paddle inputs are activated when switched to ground (GND)



The OUT connector uses the same type connector as the paddle input. It provides two switched outputs. These outputs are isolated from WKmini ground and all other signals by an optically coupled solid state relay. The outputs can switch voltages up to +/- 60 V at up to 200 mA. Note that the ring connection is dual purpose, it can be a PTT tied to KEY1 or it can be an independent second key output KEY2. These options are controlled by software configuration.

The USB connector is designed to mate with a Type A to Mini-B cable. The interface is directly compatible with USB 1 and 2 interfaces or USB 3 type interfaces that support backwards compatibility to version 2.0.

### Warranty Information

WKmini is fully warranted to the original purchaser against defects in materials and workmanship for one year after purchase. This warranty does not cover damage caused by accident, improper care, or lightning damage. Please contact us before returning your WKmini for repair and we will issue an RMA. Please submit questions by e-mail to [k1el.kitsinfo@gmail.com](mailto:k1el.kitsinfo@gmail.com).

### Product Liability

While every effort has been made to insure that WKmini is safe and documentation is clear and accurate, it is still possible to cause equipment damage or incur personal injury if WKmini is not used as intended, is connected incorrectly, safety guidelines outlined in the User Guide are not followed, or WKmini is modified in any way. K1EL or Hamcrafters cannot be held responsible for damages in these or other similar events.