

Introducing UV-K5 Version 0.1P (CW Mode)



CW-related functions have been added to version 0.1P. The spectrum function has been removed but is maintained in the source code. Later, when the source code is distributed, you can activate it and use it if necessary. This version is for testing purposes only. It will be redistributed as the stable version 0.2 in approximately 1-2 weeks. If you don't want to beta test, you can wait a week or two and download 0.2

1. Caution - Please read

1.1 The CW mode added in this version is identical to the actual CW function used in general shortwave radios. In some countries, CW communication may require another license. Check whether CW operation is available in your country. The CWF mode added in this version is FM-based CW. If you have a license that does not allow you to operate CW, CWF may be possible.

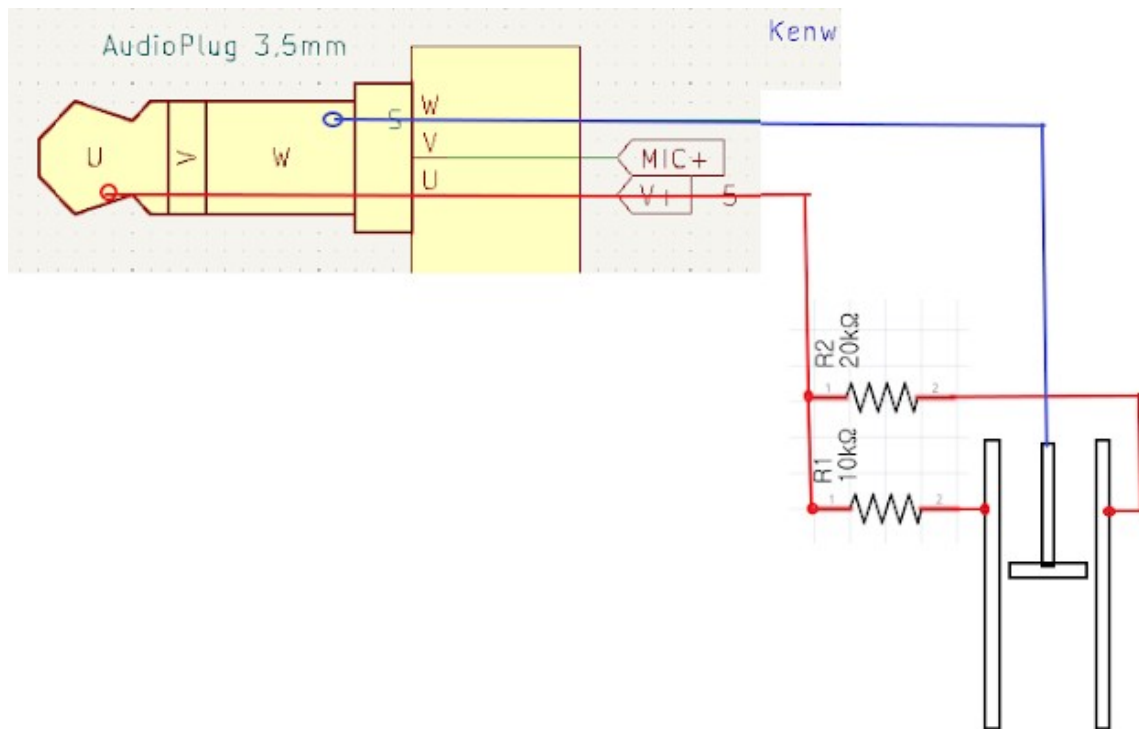
1.2 If you use an external key, you must set up CW AD1, CW AD2, CW AD3, and CW AD4. If this value is set too low, CW will continue to be transmitted and the this firmware (support CW) will become unusable. To prevent that, if CW is transmitted within 4 seconds after turning on the radio (PTT, external key, or whatever), I stop the CW and switch to FM mode. If you do not press PTT or an external keyer within 4 seconds of turning on the radio, but the UV-K5 beeps 10 times and automatically switches to FM mode, check the values of CW AD1 to CW AD4.

2.How to connect CW key

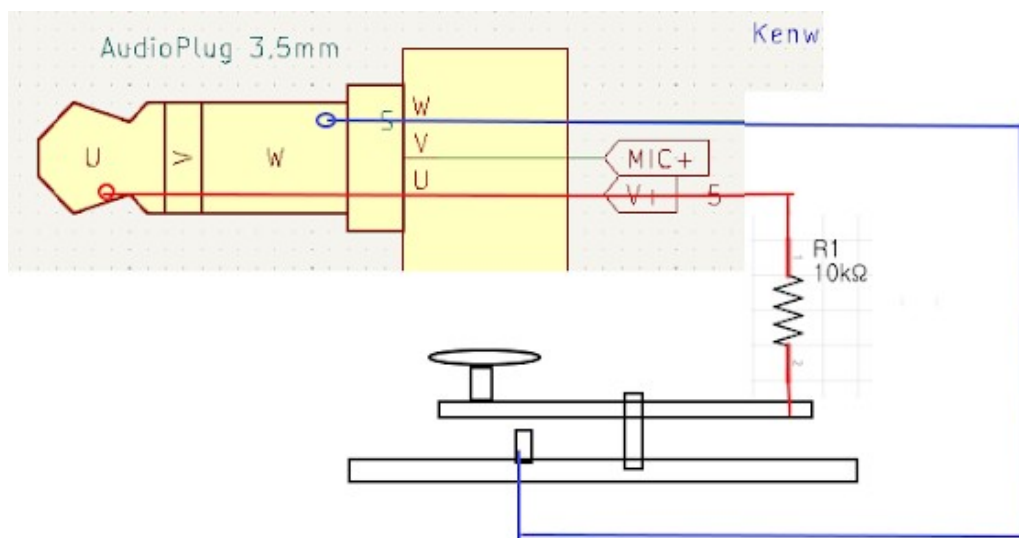
Connect to the 3.5mm jack of UV-K5 as shown below.

If you use 10K and 20K resistors and your CW key contacts are clean, you will probably be able to use it right away without needing to set up CW AD1, CW AD2, CW AD3, and CW AD4.

If you do not have 10K and 20K resistors, you can find resistors from 20K to 3K with a difference of about 2 and connect them. However, in that case, the 'CW AD' value will have to be adjusted quite difficult. I recommend using 10K or 20K resistors. The reason I chose 10K and 20K resistors is because they are easy to find nearby.



(PADDLE KEY)



(STRAIGHT KEY)

3.Mode Description

Three modes have been added in this version.

The original plan was to include CWR, but it was not included because users would be confused by too many modes. However, in the UV-K5, which receives both the upper and lower sides centered on the BFO (In reality, BFO is not used and operates by calculation), I continue to think that I need CWR to know the exact location of the CW I am listening to. So maybe CWR may be added in the future.

3.1 CW Mode

This is the CW mode we know. It is transmitted as A1A without any special modification. 'CW' is displayed on the screen.

3.2 CWF Mode

This is how CW sound is transmitted in FM mode (F2A). Unlike CW mode, when in CW TX mode, radio waves are being transmitted immediately. Pressing the CW keyer only adds sound. 'CWF' is displayed on the screen and reception is performed in FM mode. Same as FM mode.

3.3 CWN Mode

Same as CW mode, but not transmitted. You can use it for practice.

It will appear on the screen as 'CWN'.

4. Keyer

You can select from 'CW KEY' in the setup menu.

4.1 K-ST : This is a straight key used as a keypad. (PTT or M)

4.2 K-PD : This is a paddle key used as a keypad. (PTT and M)

M : DAH

PTT : DIH

It operates in IAMBIC.A style.

4.3 E-ST : This is external straight Key using 3.5mm connector

4.4 E-PD :This is external paddle Key using 3.5mm connector

It operates in IAMBIC.A style.