

**KD8CEC AMATEUR
RADIO**

SEARCH

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DVPi (DMR)

Antenna Analyzer

Introducing UV-K5 Version 0.1P (CW)

January 13, 2024

SHARE

Introducing UV-
K5 Version 0.1P
(CW Mode)

Labels

CW

ssb

UV-K5



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

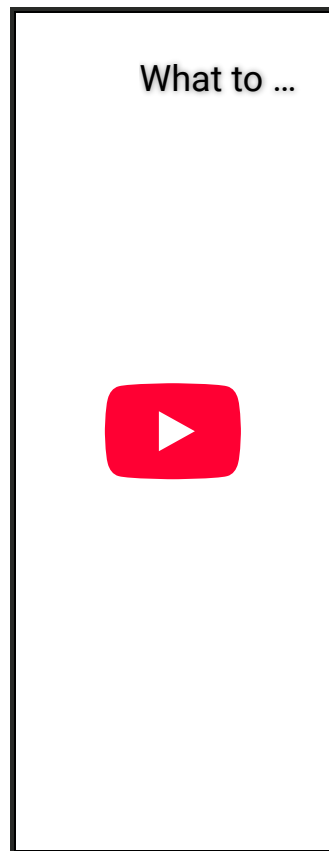
CW operation is
available in your
country

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.



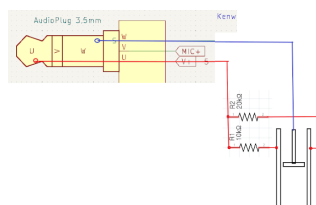
2.How to
connect CW key
Connect to the
3.5mm jack of
UV-K5 as shown
below.

If you use 10K
and 20K
resistors and

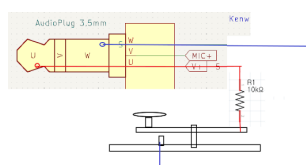
your CW key
contacts are
clean, you will
probably be able
to use it right
away without
needing to set
up CW AD1, CW
AD2, CW AD3,
and CW AD4.

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)



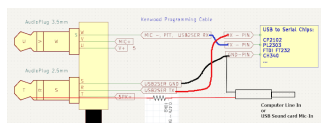
(STRAIGHT KEY)

I implemented
 the CAT
 communication
 introduced in

the video a few weeks ago on UV-K5. (Not included in this version) The picture below is the configuration used in the video.

Using this, I implemented 'Win Keyer' and 'Nano Keyer', which are often used by DX'er, on UV-K5. I am wondering whether such a function is necessary for a portable radio. And there is no doubt that both 'Win Keyer' and

'Nano Keyer' are very enchanting keyers. But I have to choose one of them. If it is included in the next version, you can connect it by referring to the circuit below.



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. 'C W' 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.

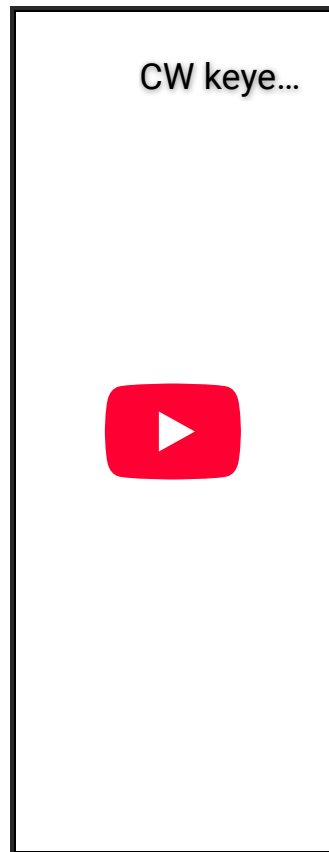
4.1 K-ST : This is a straight key used as a keypad. (PTT or M)

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

M : DAH

PTT : DIH

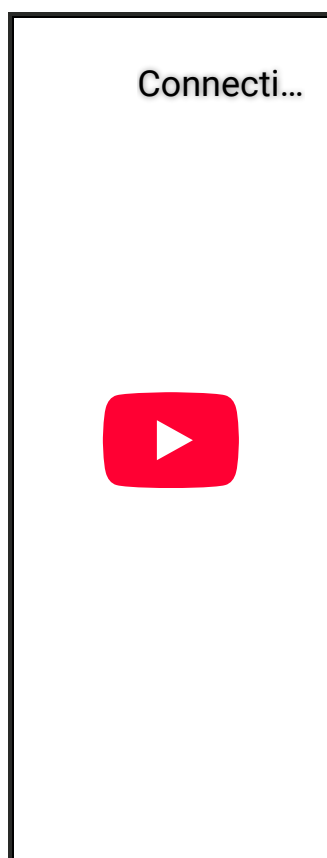
It operates in IAMBIC.A style.



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.



4.5 PC : Not
supported yet.

If UV-K5 has a
built-in
WinKeyer or
NanoKeyer, it
can be used by
connecting to a
computer.

5. How to use

CW Mode

CW mode only works when the radio's mode is 'CW', 'CWF', or 'CWN'.

You can enter CW transmission mode in two ways.



5.1 Manual Start

CW TX

The first is to press PTT once. In this case, CW TX

mode is maintained until the 'Exit' button is pressed. When you finish transmitting CW, be sure to press the Exit button to return to receiving mode. If the 'Exit' button response is delayed, it is not an error. When transmitting with the paddle key, the idle time may be maintained after transmission.

5.2 Auto Start

CW TX

The second is

automatic mode
using the paddle
keys. If you use
external paddle
keys or straight
keys, press the
key once. It
automatically
switches to CW
TX mode. At this
time, the
pressed CW Key
is not
transmitted via
radio waves. In
this case, when
CW transmission
ends, it
automatically
switches to
reception mode.
The time for CW
transmission to
end and switch
to reception

mode can be set
in 'CW DLY' in
the set up menu.

6. How to use Memory Keyer

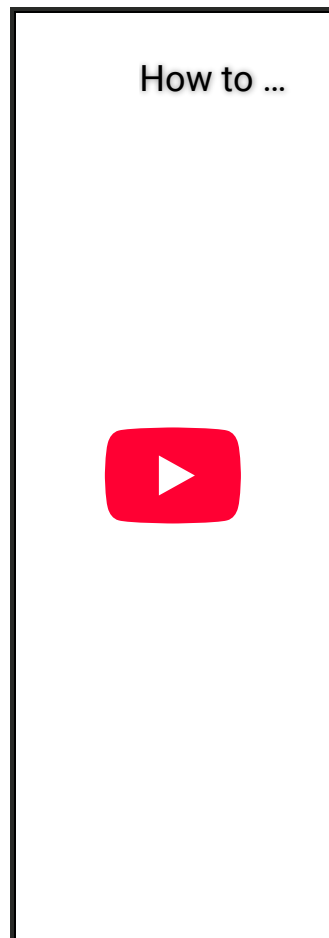
The picture
below shows the
basic CW
mode. This is
the screen that
appears when
switching to CW
TX mode.



Below are the
CW functions
used in basic
mode.

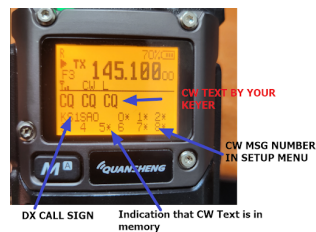


Please refer to
the video for
how to use.



Pressing the *
(STAR) button in
basic mode
switches to CW

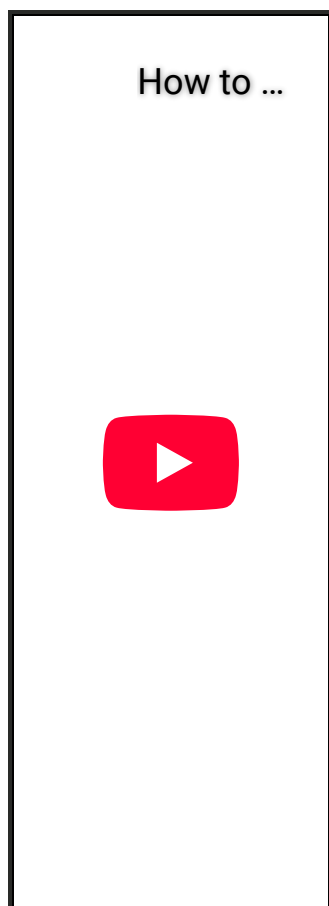
MSG
transmission
mode. Press the
* button again to
return to basic
mode. In
Advanced mode,
you can check
the DX CALL
stored in the
radio.



In the Advanced
menu, the role
of the numeric
keypad changes
to the 'CW MSG'
transmission
shortcut key.



Please refer to
the video for
how to use.



7.Download

As announced in
advance, various
experimental

versions will be
released up to V1.0,
and the source code
will be registered
when V1.0 is
released. Until V1.0,
we will only upload
firmware binary files.

(This version release
includes version 0.1C
source code)

You can update it
using
cec_0.1p.packed.bin

[https://
github.com/
phdlee/
uvk5cec/
releases/tag/
v_0.1p](https://github.com/phdlee/uvk5cec/releases/tag/v_0.1p)

DE KD8CEC

LABEL: CW, SSB,

UV-K5

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Comments

**BH4GUR**

• January 30,
2024 at
4:38 AM

Dear
KD8CEC, Im
using your
0.1P CW, Im
using a
external
paddle key
named
LaoMao, a
double
paddle one,
but it doesnt
work well in
0.1P CW, I
selected E-
PD, it only
can input E
and T offen,
sometime A,
no others.....I
dont know
how can I fix
it. LaoMao
paddle key,
you can
search from
google by
image, the

REPLY

top row
show them.
THX



FAFAMAMAB
UBU

• February 5,
2024 at
4:50 PM

Hi KD8CEC,
This is
6K2LND. I'd
like to
update some
test result
and group
test plan
with your
firmware.As
we tested,
straight key
can't be
decoded
from current
firmware(pa
ddle works
well).
And HL0IHQ
will present
demonstrati
on of group
CW
communicati
on via UV-
K5(8) on
uvk5cec
firmware on
11th, Feb.
Incheon
team leader,
HL2OLP said
thanks for
your work
REPLY
and very

grateful for
your passion
and work on
firmware
development
. If you have
any
interesting
on visiting,
please mail
me.
minak2@nav
er.com



Addere1986

• February 6,
2024 at
12:30 AM

I stumbled
upon your
post while
searching for
some related
information
on a blog
search.

Academic
Writers UK

REPLY



Guest

• February 9,
2024 at
5:53 AM

I'm a regular
reader of
your blog
and always
impressed by
the
REPLY
interesting

content.

www.concretemilton.com



Unknown

• February 16,
2024 at
3:45 AM

Hi KD8CEC.
OP name
Florin,
callsing
YO3AX here.
Congratulati
ons for the
FB work and
functionaliti
es included
in this fw. It's
by far the
most feature
rich CW
focused fw
for the K5. I
just built an
adaptor for
my iambic
key using
this
schematic
([https://
blogger.google
usercontent
t.com/img/
b/R29vZ2xl/
AVvXsEgn6r
KwD2R7KAgj
z4e6MDt0H
SY929CsJgsB
G4M2TIGRi
woRyruJoPCt
IoEJXtS_yJ-
REPLYK5jApOa-](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgn6rKwD2R7KAgjz4e6MDt0HSY929CsJgsBG4M2TIGRiwoRyruJoPCtIoEJXtS_yJ-REPLYK5jApOa-)

CT6NWs0_K
YLRXRTsAlZ
SP7zKR_nj3
h3FK2VCD04
q3tErpDxc7i
VX65NJ6tRV
u6ykT0k39U
GRsJo4qoJIt
dw1c2GiA8-
ju7gQWrEO1
qxAmQnLl1f
CA/s707/
%ED%8C%A
8%EB%93%
A4%EC%97%
B0%EA%B2
%B0.png),
10k resistor
to left
paddle, 20k
to right one.
Problem is it
sends dahs
with the
thumb, dits
with the
index, while
I'm used
with the
opposite.
What's the
easiest sw
way to
reverse
them?



Guest

• February 26,
2024 at
7:04 AM

The content
on this page
is thoroughly
REPLY
impressive.

Thank you
for curating
such an
interesting
blog. **Siding
Replacing
Boards and
Panels**



**Dryer Vent
Cleaning AZ**
• March 14,
2024 at
2:24 AM

Exciting
news! UV-K5
Version 0.1P
seems
promising!
Can't wait to
see how it
revolutionize
s the
industry. For
those
interested in
innovative
cleaning
solutions,
check out
**[www.pressur
ecleaningsut
herlandshire.
com.au](http://www.pressurecleaningsutherlandshire.com.au)** for
expert
insights and
services
tailored to
your needs

REPLY



**Dr. Maetreyii
Ma Nolan**
REPLY

• March 20,
2024 at
12:16 PM

The blog was
super cool to
read, i got so
much insight
after reading
it, speacially
amazed with
your
wordsmithin
g.
Regards,
Dr. Maetreyii
Ma - **Yoga**
Ma



uik

• June 26,
2024 at
6:17 AM

This
comment
has been
removed by
the author.

REPLY



anonymous

• October 2,
2024 at
8:22 AM

This
comment
has been
removed by
the author.

REPLY



anonymous

• October 2,
2024 at
REPLY
8:23 AM

If you don't
already have
10K and 20K
resistors,
you can
connect
resistors
that range
from 20K to
3K, with a
difference of
roughly 2.
See
[fencingchrist
church.co.nz](http://fencingchristchurch.co.nz)



Oe3rlv

• February 21,
2025 at
6:46 AM

How can the
ADC values
be adjusted?
Below
65kOhm to
15kOhm it
sends dits,
between 15
and 5kOhm
it sends
alternating
dits and
dahs, below
5kOhm it
stops
sending. I
cant get it to
send das
only.



**Oe3rl
v**

REPLY

•
Febr
uary
21,
202
5 at
7:04
AM

I
tried
to
play
a
little
with
the
valu
es,
but
coul
dnt
get
it
work
ing

To leave a
comment, click the
button below to
sign in with Google.

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April 07,
2024

Introduc
tion to
UV-K5

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S

READ MORE

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March 11,
2024

Introduc

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UV-K5

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July 12,
2021

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DVPI

Version

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