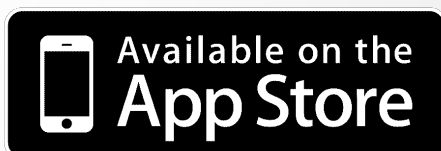


WSPR

WEAK SIGNAL PROPAGATION REPORTER

How to use iWSPR Radio connection cable examples



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IW2MVI • IZ2XCV • IW2NVW

<http://subdimensions.com>
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How to use iWSPR

Instructions

iWSPR is really easy to use: just insert your "Callsign" and "Locator" and then change the "Power" and the "Dial Frequency" in relation of your working condition.

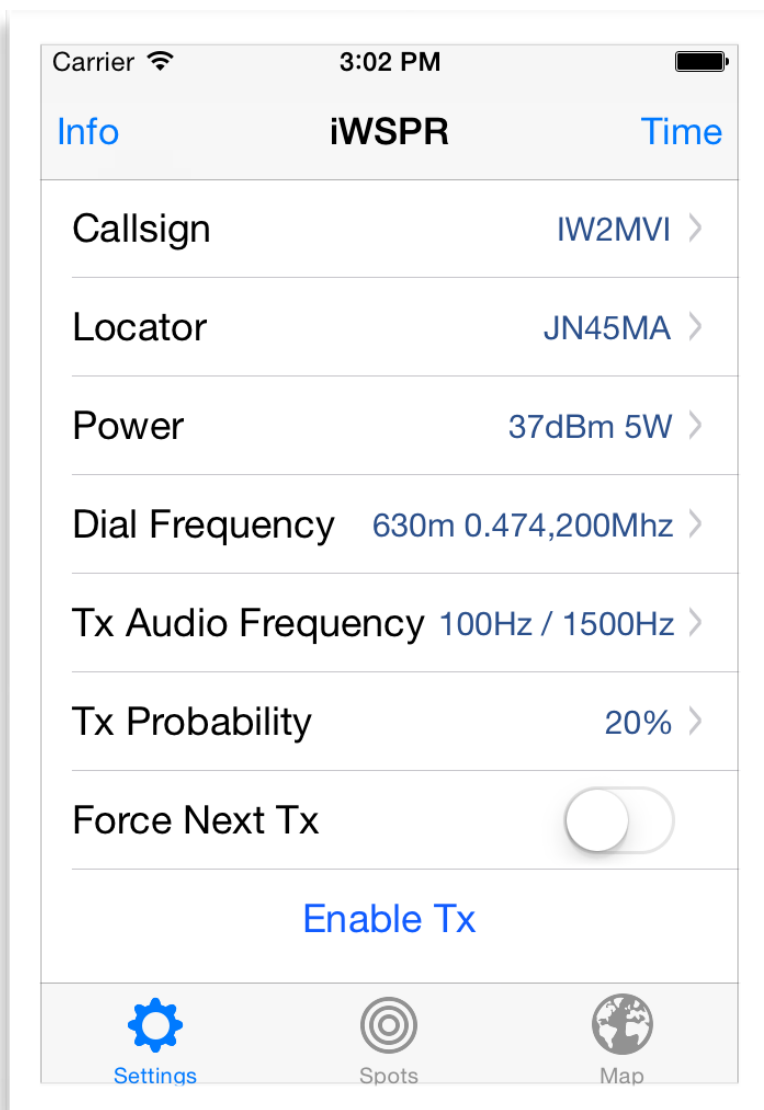
You had to set your radio always in USB mode and dial the frequency reported in "Dial Frequency".

You can also change the "TX Audio Frequency", set the "TX Probability" or "Force the Next TX".

Once you are ready click "Generate TX" and then "Enable TX". The button will become red and a popup window will appear during transmission.

To avoid distortion and overload of your radio keep the audio level as low as possible.

You can find more info about WSPR mode on the [official site](#).



How to connect your device to a radio

The simplest cable you can make is made by two wire and a 3 pole (stereo) 3,5mm jack connector. Wire the left channel (TIP) to the input of your radio data port or mic and the ground to the ground. If you have problem regulating ALC just add a small potentiometer (4,7Kohm).

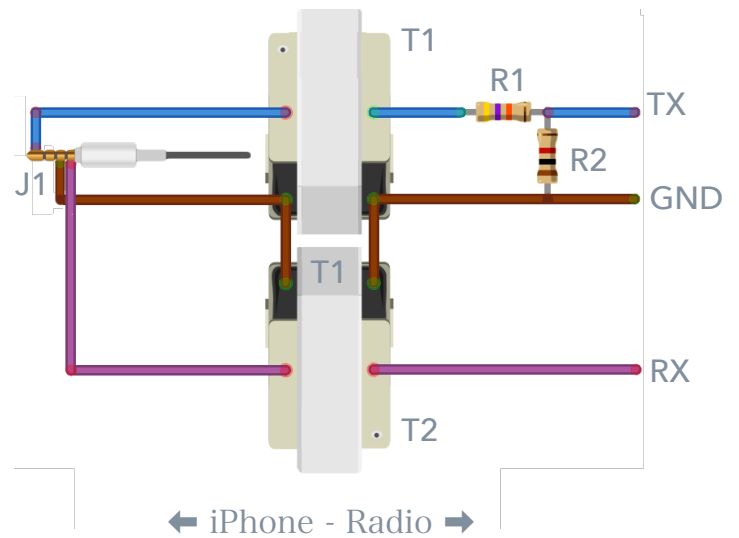
Starting from iOS 10 it's highly recommended to use the "Lightning to 3.5mm Headphone Jack Adapter": the transformers are useless and works fine also with a "4 pole Y Splitter Stereo Audio Cable" without extra hardware. "iRig" interface was also reported working fine.

For the iPad it's also possible to connect an external USB sound card (max 100mA) via the "Lightning to USB photo camera adapter" or the old "USB Camera Connection Kit". Worked fine with a cheap "C-Media" and the "Behringer UCA202": if you already have a USB sound card, try it!

In the next page you will find some examples from which you can take inspiration.

Example for Radio with VOX

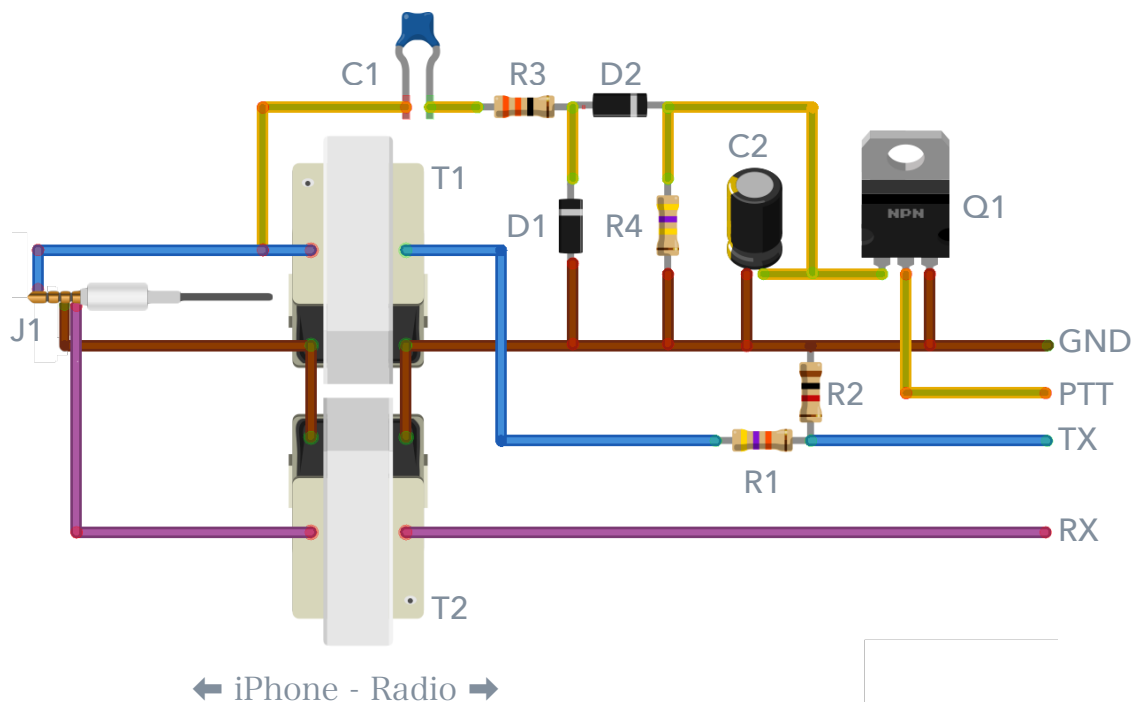
- T1, T2 Audio Transformer 600:600 Ω
- J1 Audio Connector 3,5mm 4 Contacts
- R1 47 K Ω
- R2 1 K Ω
- CON Connector to radio, check your manual



Highly Recommended!

Put a small Ferrite Core just before J1.

Example for Radio with PTT



- T1, T2 Audio Transformer 600:600 Ω
- J1 Audio Connector 3,5mm 4 Contacts
- R1 47 k Ω
- R2 1 k Ω
- R3 33 Ω
- R4 470 k Ω

- C1 0,33 μ F
- C2 5 μ F
- D1 BAY72
- D2 BAY72
- Q1 IRF540
- CON Connector to radio, check your manual