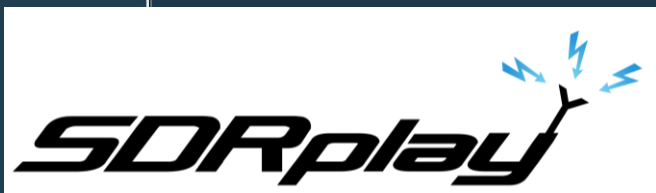


Using an SDRplay RSP1A for the first time



What is an SDR (Software Defined Radio) Receiver?



A radio receiver where much of what traditionally was done in hardware, is now done in software.

The SDRplay RSP1A hardware does up-front filtering, amplifying, mixing and Analog to Digital conversion.

It sends the digitised signal to the PC over the USB cable and the SDRUno software performs the rest of processing chain



The SDRplay RSP1A is a powerful wideband SDR which covers the RF spectrum from 1kHz to 2GHz. All it needs is a PC and an antenna to provide excellent communications receiver functionality.

Wire antenna, >10m long
for shortwave

Ideally outside
and at least
4m above
ground



USB cable*

Download SDRUno software
from SDRplay website



Getting Started with your new RSP1A

Don't connect the RSP1A to your PC until you are told to



- Go to www.sdrplay.com and click on “Start Here”

A screenshot of the SDRplay website homepage. The header is blue with the SDRplay logo on the left and navigation links (Home, Start Here, Products, Reviews, Purchase, Downloads, Community, Blog, Support, Contact, 日本語) in the center. The 'Start Here' link is circled in red. On the right of the header are social media icons for Twitter, Facebook, and YouTube, and a search icon. The main content area has a blue background with a world map. It features two product images: the RSPduo (a black box with two tuners) and the RSP1A (a black box with a single antenna). Two text boxes provide information about each product. The top box, for the RSPduo, says '<- Introducing the new RSPduo', 'Available Now!', 'A Dual-Tuner Wideband Full Featured 14-Bit SDR', and 'Click HERE for more details'. The bottom box, for the RSP1A, says 'The popular SDRplay RSP1A ->', 'A Wideband Full Featured 14-Bit SDR receiver', 'Perfect for exploring the radio spectrum', and 'Click HERE for more details'.

Follow the prompts

1. Purchase Information

Please enter your country and purchase location, this will help us to better support you.

Country:

Purchase Location:

2. Operating System

Select the operating system and version you are using...

Windows

☐ Windows XP ☐ Windows Vista ☐ Windows 7 ☐ Windows 8.1 ☒ Windows 10

Linux

☐ Ubuntu 14.04 ☐ Ubuntu 15.04 ☐ Ubuntu 16.04 ☐ Ubuntu 17.04 ☐ Other

3. Pre-installation checks

i. Please make sure the RSP USB cable is not connected.

ii. Some Anti-virus software may disallow the driver to be installed. This is a false positive result and you should temporarily disable any anti-virus software for the duration of the installation.

☒ Check the box when you have read and accepted the recommendations of required actions.

4. Register your device

Select the device you would like to register:



Follow the prompts

4. Register your device

Select the device you would like to register:

Registering your RSP1A

Name:

Email:

Serial Number: (select your serial prefix and then enter the next 6 digits of the serial number)

5. What SDR Application Software?

Select which SDR application software will you be using with the RSP?

SDRuno

☒ Select

HDSDR

☐ Select

SDR-Console

☐ Select

Device successfully registered

SDRuno Installation

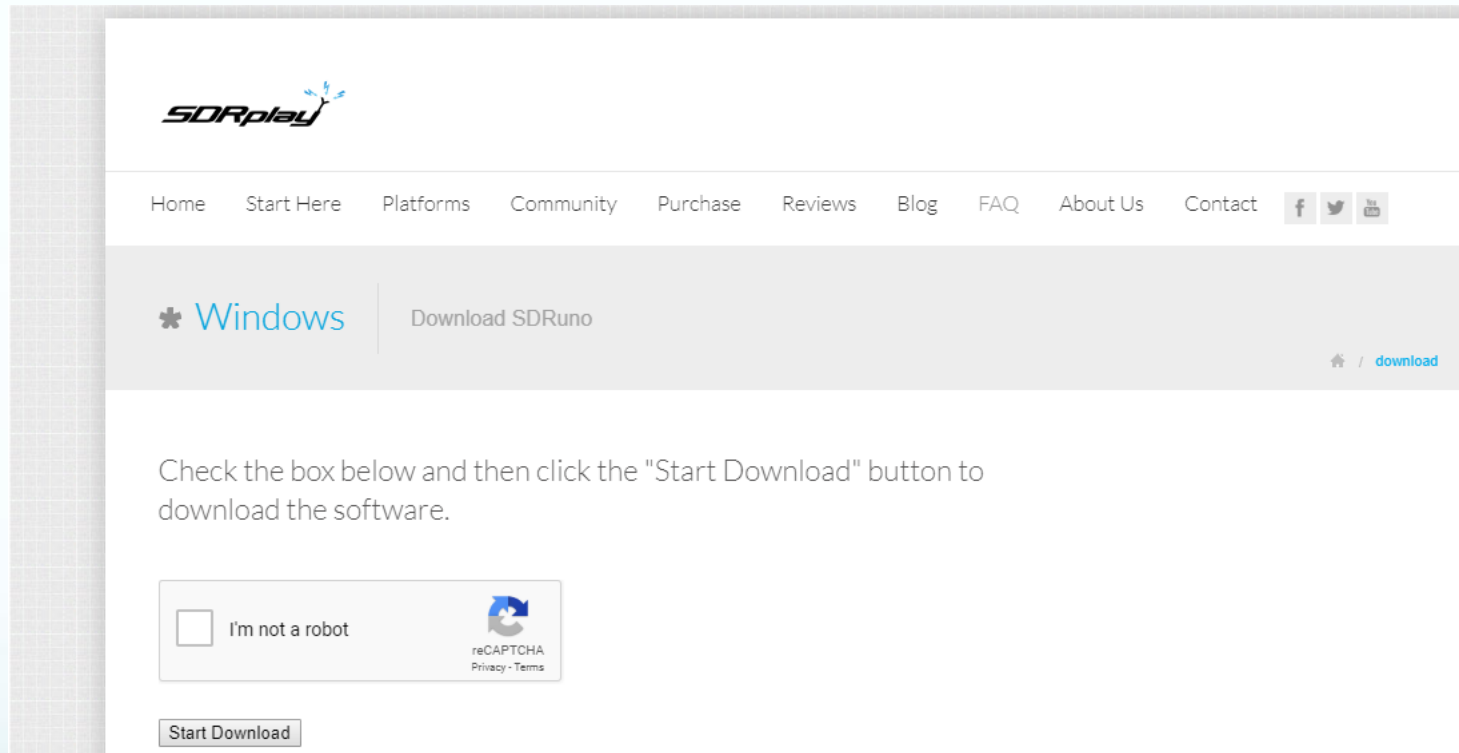
This page will remain open so you can refer back to it after you've performed the installation below.

Please click [here](#) for the SDRuno installation.

Was the installation successful?



Follow the Prompts



SDRplay

Home Start Here Platforms Community Purchase Reviews Blog FAQ About Us Contact

* Windows Download SDRRuno

📁 / download

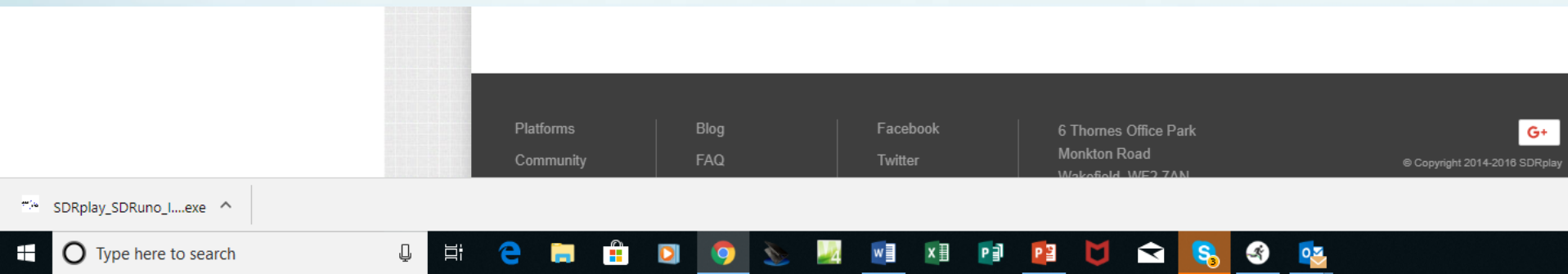
Check the box below and then click the "Start Download" button to download the software.

☐ I'm not a robot

reCAPTCHA
Privacy - Terms

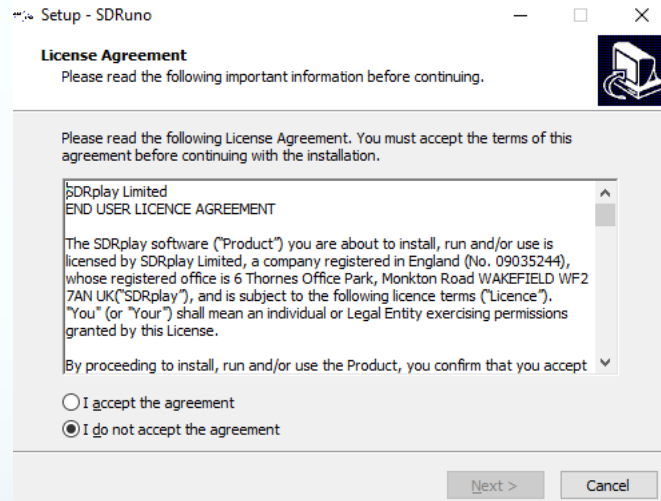
Start Download

Click here and then
“open”



Follow the prompts

Say Yes, to allow SDRuno to run on your computer & accept the license agreement

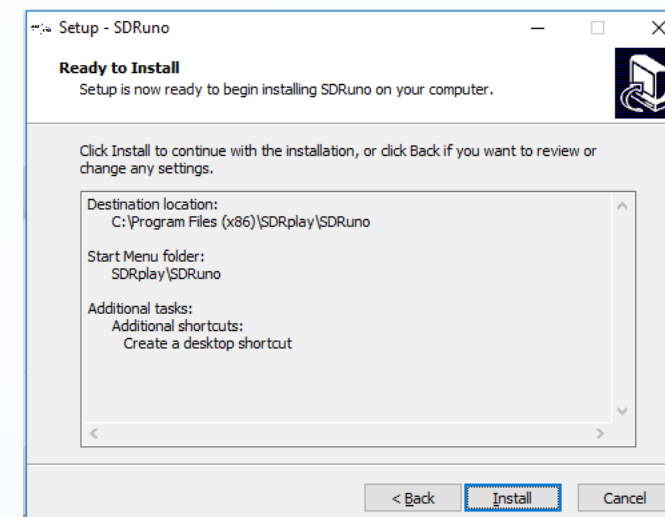
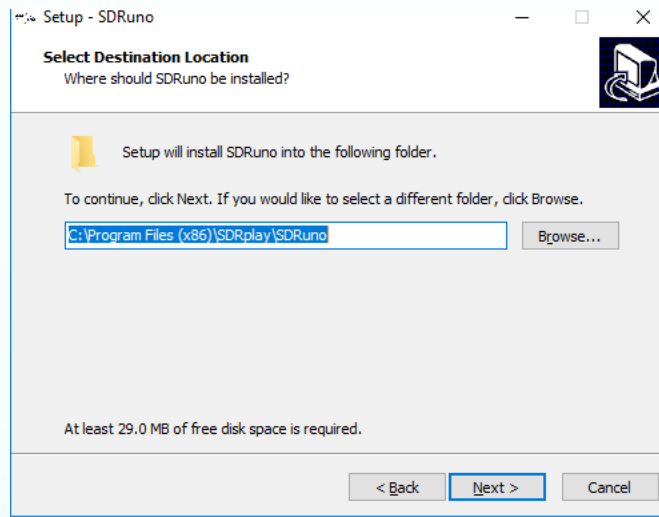


PLEASE MAKE SURE your new RSP is DISCONNECTED FROM THE MACHINE BEFORE CONTINUING WITH THE DRIVER INSTALLATION



Follow the prompts

Accept the default file location & click Next



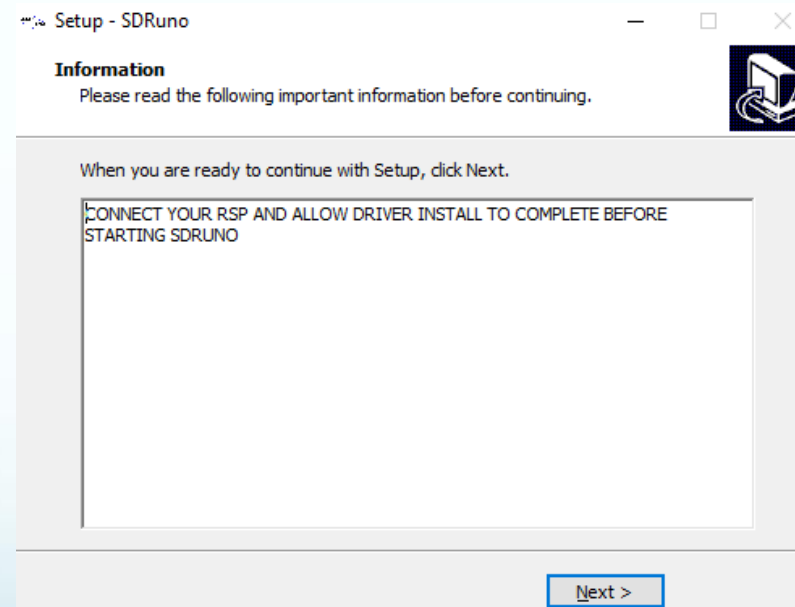
Accept the default file location & click Next and SDRuno will automatically install



Follow the prompts

Allow Windows to install if you get a message saying that Windows can't verify the publisher

When you get the message below, wait 30 seconds and then plug in your RSP1A and click "Next"



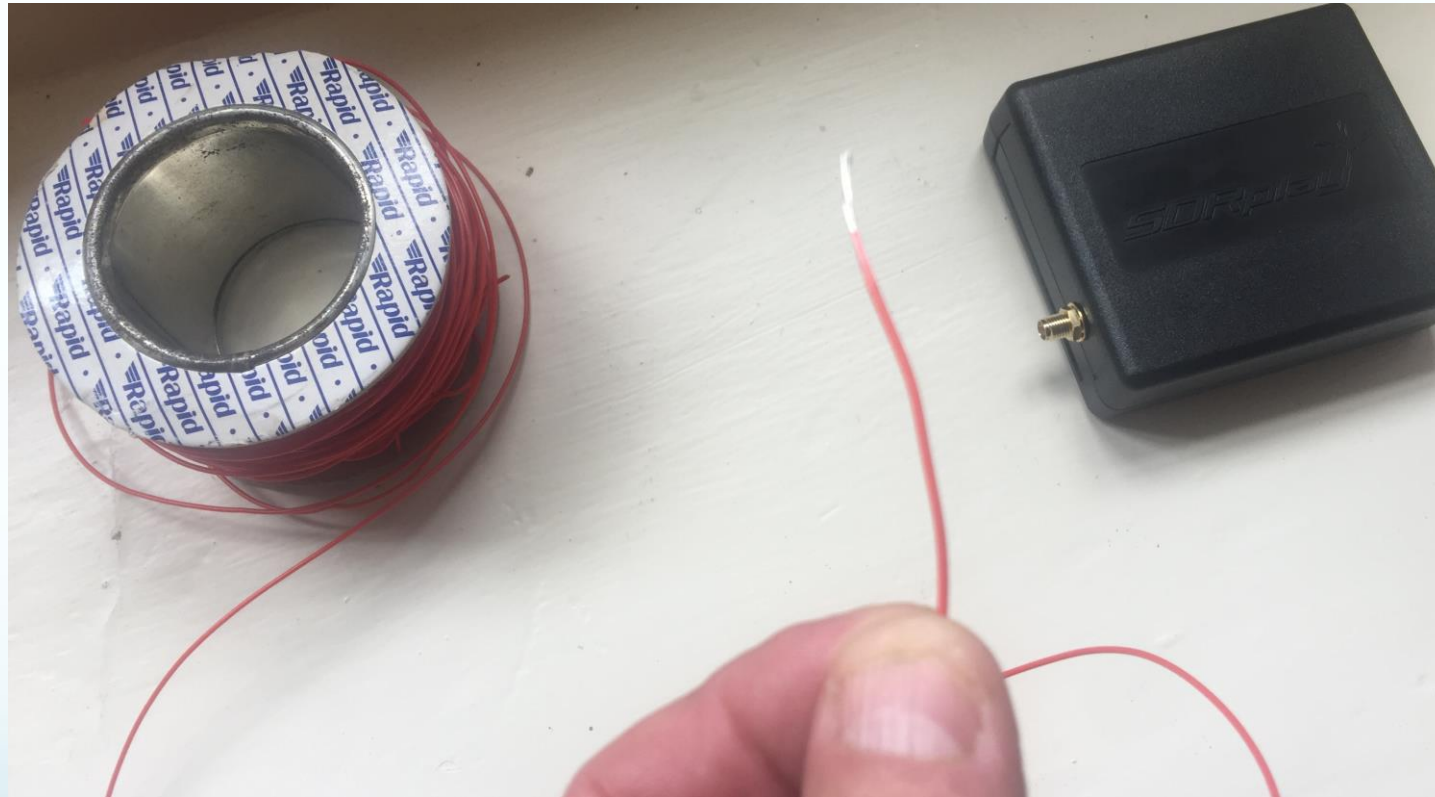
Click on "Finish" and SDRuno will launch – lots of windows will automatically appear and arrange themselves on your PC screen (accept these defaults for now)



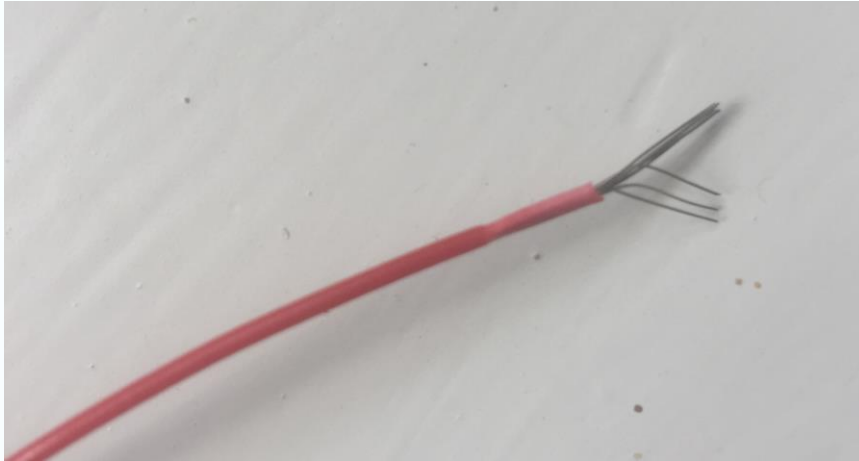
Now we need an antenna



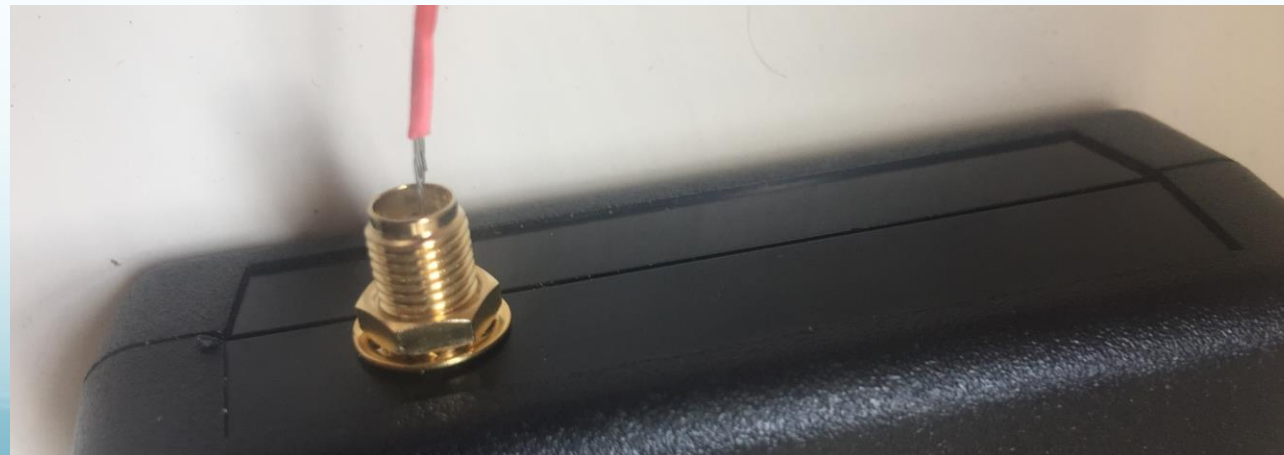
For shortwave, say the 49 metre band, 10 metres or more of PVC coated thin multistrand wire will work well if you can get it outside and away from strong sources of electrical noise.



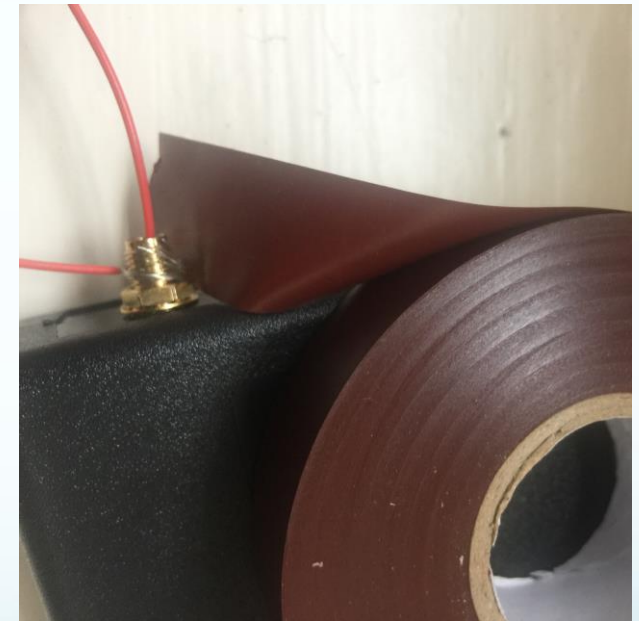
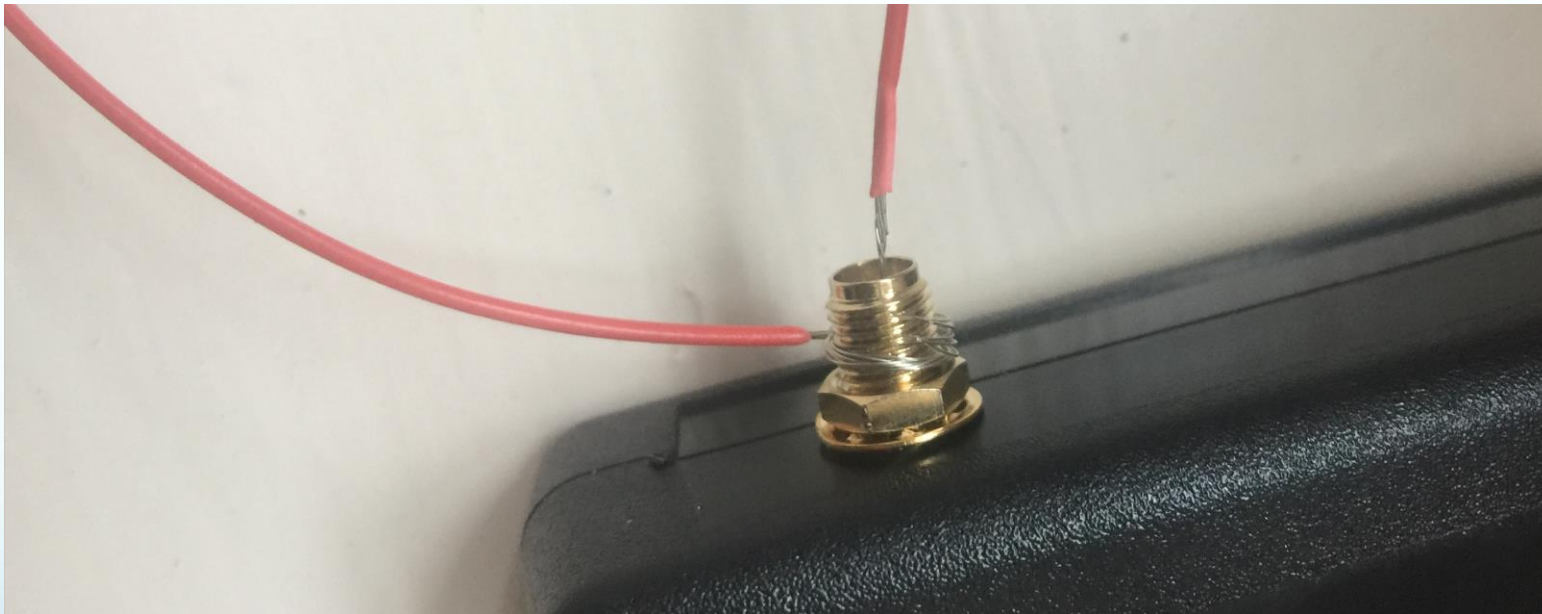
Now we need an antenna



To get started, just strip away the plastic coating from the end of the wire and insert 2 or 3 strands into the centre hole of the coax socket on the RSP1A, taking care not to short against the outer of the coax socket.



Connecting another length of wire to the outer of the coax allows you to ground the unit which will further improve the signal strength. Google “RF Grounding methods” for articles on this topic.



Tape the connections carefully. For a more permanent solution we recommend buying connectors or lengths of coax cable to connect from your RSP1A to a convenient point near the outside world. Additional matching devices may further improve reception but this basic set up should work well as a starting point.



Now we need an antenna

Arrange the length of wire to be as spread out and as high above ground as possible. Cable ties make excellent supports. Keep the wire away from metal objects as much as possible.



Even with just this simple wire, you should start receiving some shortwave signals



Time to start listening

We recommend using a mouse with a roller wheel (this becomes your tuning knob!)

Press the Green “Play” button to start the receiver

Look for the Bands button and select “Broadcast” and then the 49 metre band

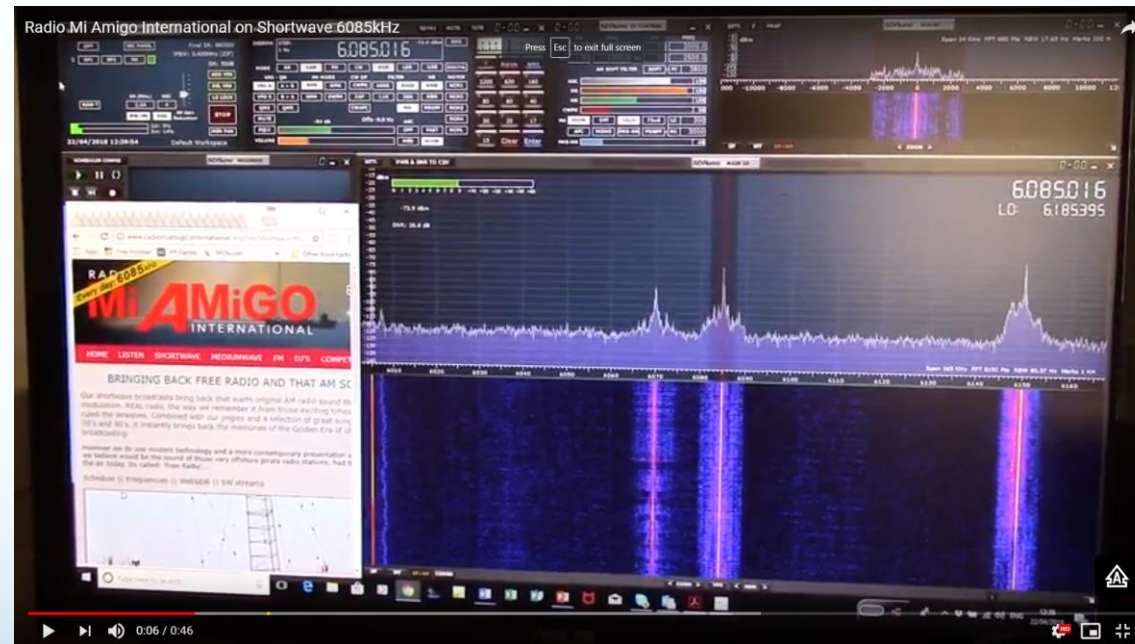
It should default to 6050KHz and in the main Spectrum display you should see signals

With the default settings, move the mouse to the frequency display - rolling your mouse wheel will tune whichever digit you hover over (0.1kHz is a good one to choose)

The default settings for AM, 8kHz audio bandwidth, gain and so on should be OK...but now you should be inspired enough to start watching the video guides and reading the manual!



If you are just a few hundred kilometres from North Germany, in the daytime, you should hear Radio Mi Amigo International on 6085kHz (9M TO 6PM cet)



youtu.be/Gi99Z0rZryY



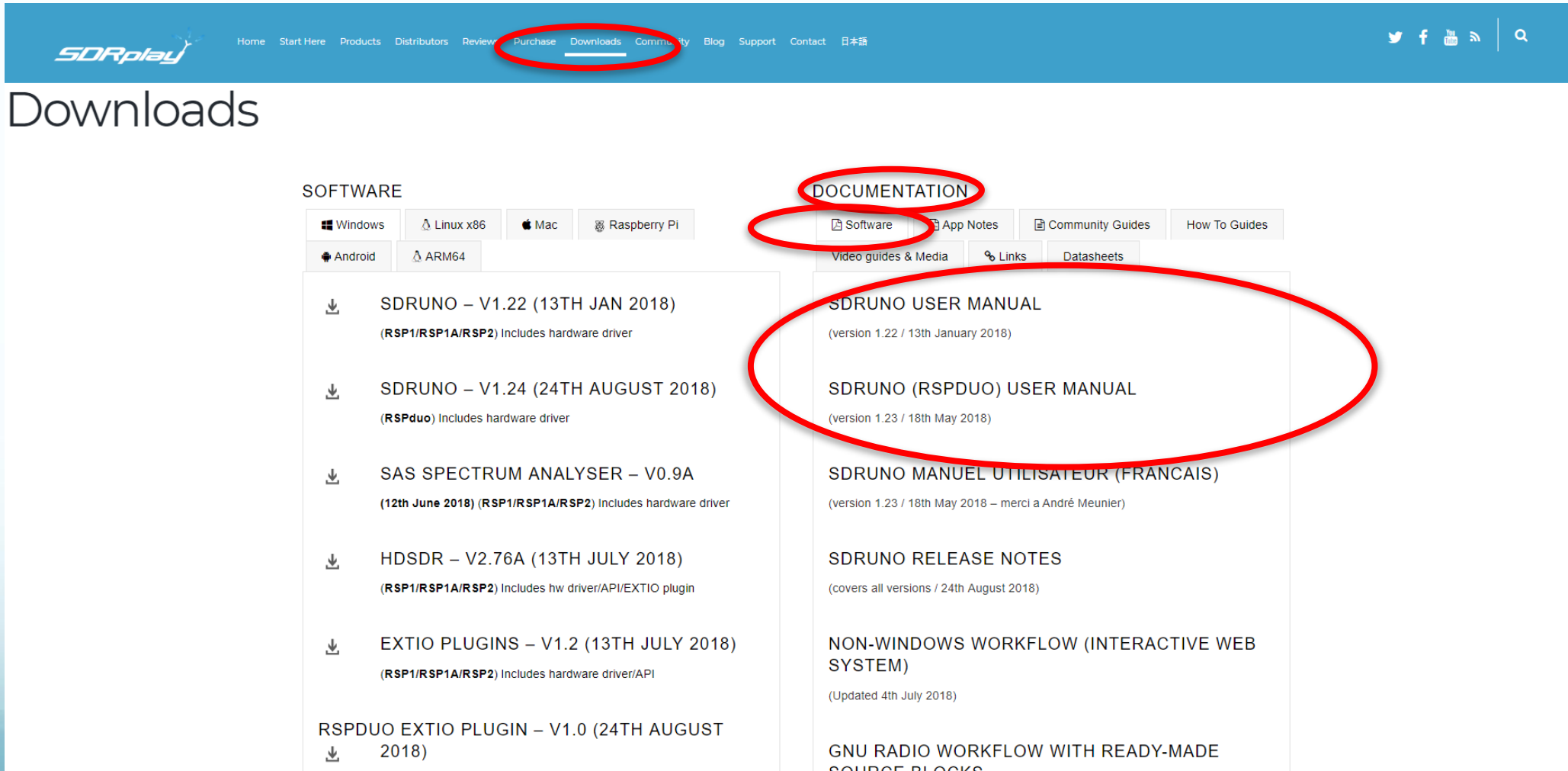
This is just the beginning of an exciting journey



- Join the Facebook group to find out what others do with their SDRplay RSPs: <https://www.facebook.com/groups/sdrplay>
- Explore different antennas – for restricted space and indoor antennas for shortwave, a “Mag Loop” antenna is recommended. (Just Google “mag loop antennas for shortwave” to find lots of information on these)
- There are weather maps, satellite images, TV images, numerous message systems, Air-traffic control, Plane transponder, and so much more you can explore – lots of examples on the [SDRplay YouTube channel](#)



Guides and documentation



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Downloads

SOFTWARE

Windows Linux x86 Mac Raspberry Pi Android ARM64

DOCUMENTATION

Software App Notes Community Guides How To Guides Video guides & Media Links Datasheets

SOFTWARE

- SDRUNO – V1.22 (13TH JAN 2018)
(RSP1/RSP1A/RSP2) Includes hardware driver
- SDRUNO – V1.24 (24TH AUGUST 2018)
(RSPduo) Includes hardware driver
- SAS SPECTRUM ANALYSER – V0.9A
(12th June 2018) (RSP1/RSP1A/RSP2) Includes hardware driver
- HDSDR – V2.76A (13TH JULY 2018)
(RSP1/RSP1A/RSP2) Includes hw driver/API/EXTIO plugin
- EXTIO PLUGINS – V1.2 (13TH JULY 2018)
(RSP1/RSP1A/RSP2) Includes hardware driver/API
- RSPDUO EXTIO PLUGIN – V1.0 (24TH AUGUST 2018)

DOCUMENTATION


- SDRUNO USER MANUAL
(version 1.22 / 13th January 2018)
- SDRUNO (RSPDUO) USER MANUAL
(version 1.23 / 18th May 2018)
- SDRUNO MANUEL UTILISATEUR (FRANCAIS)
(version 1.23 / 18th May 2018 – merci a André Meunier)
- SDRUNO RELEASE NOTES
(covers all versions / 24th August 2018)
- NON-WINDOWS WORKFLOW (INTERACTIVE WEB SYSTEM)
(Updated 4th July 2018)
- GNU RADIO WORKFLOW WITH READY-MADE SOURCE BLOCKS



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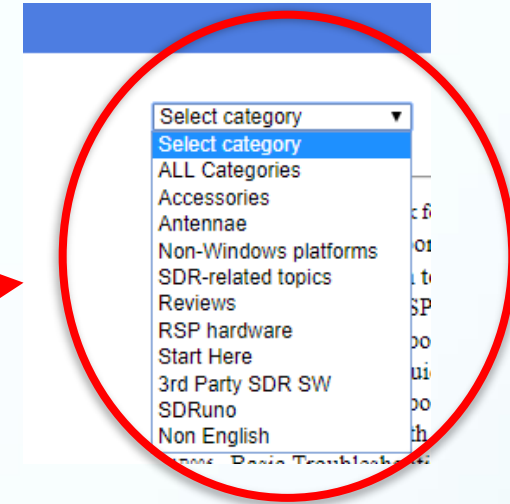
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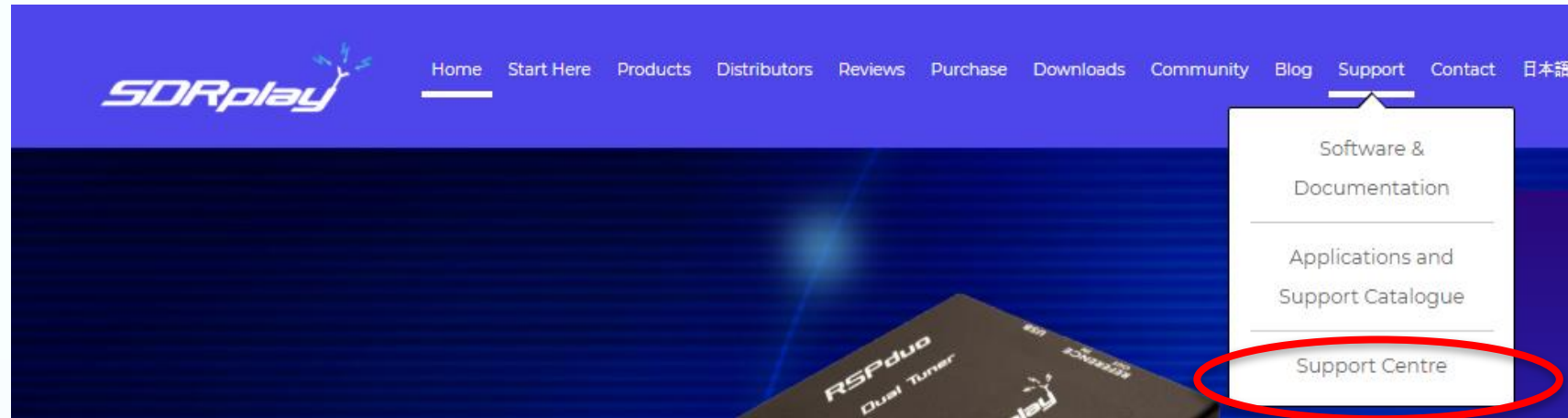
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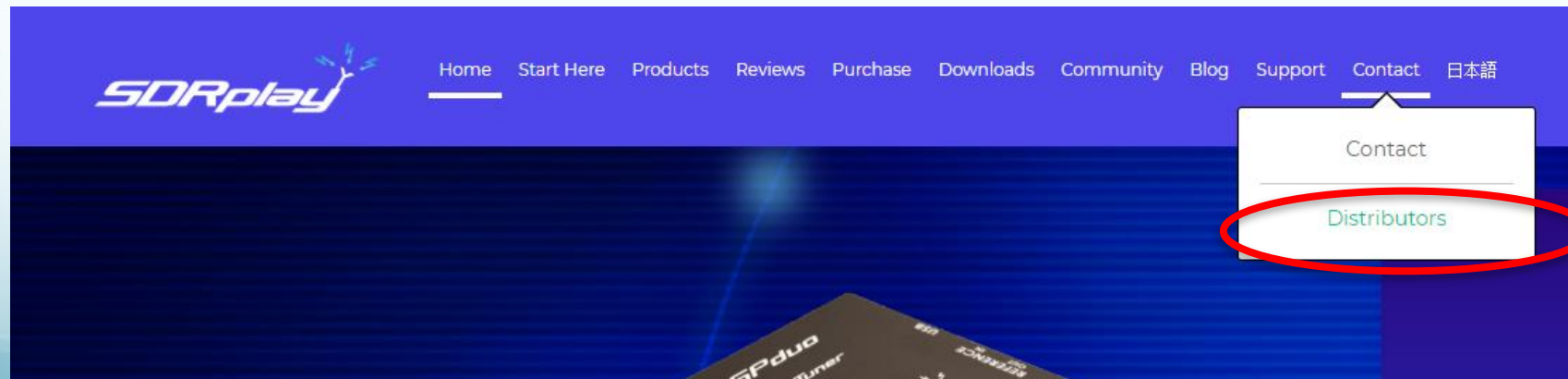
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3PAV001 Sevenfortyone unboxes the RSPduo		18-May-2018
AV003 Starthere Video Guide for RSP1A		02-Feb-2018
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AV019 Using the SDRuno Record Function		24-Sep-2018
AV018 Using a loop for HF Reception in a Condo		18-Sep-2018



And you'll get support direct from SDRplay:



Whether you buy your RSP1A from us directly or via a local distributor:



Happy Listening 😊

