



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**



USB2 Type B cable (used to connect printers)



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”

SDRplay

Home **Start Here** Products Reviews Purchase Downloads Community Blog Support Contact 日本語

<- Introducing the new RSPduo

Available Now!

A Dual-Tuner Wideband Full Featured 14-Bit SDR

Click HERE for more details

The popular SDRplay RSP1A ->

A Wideband Full Featured 14-Bit SDR receiver

Perfect for exploring the radio spectrum

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

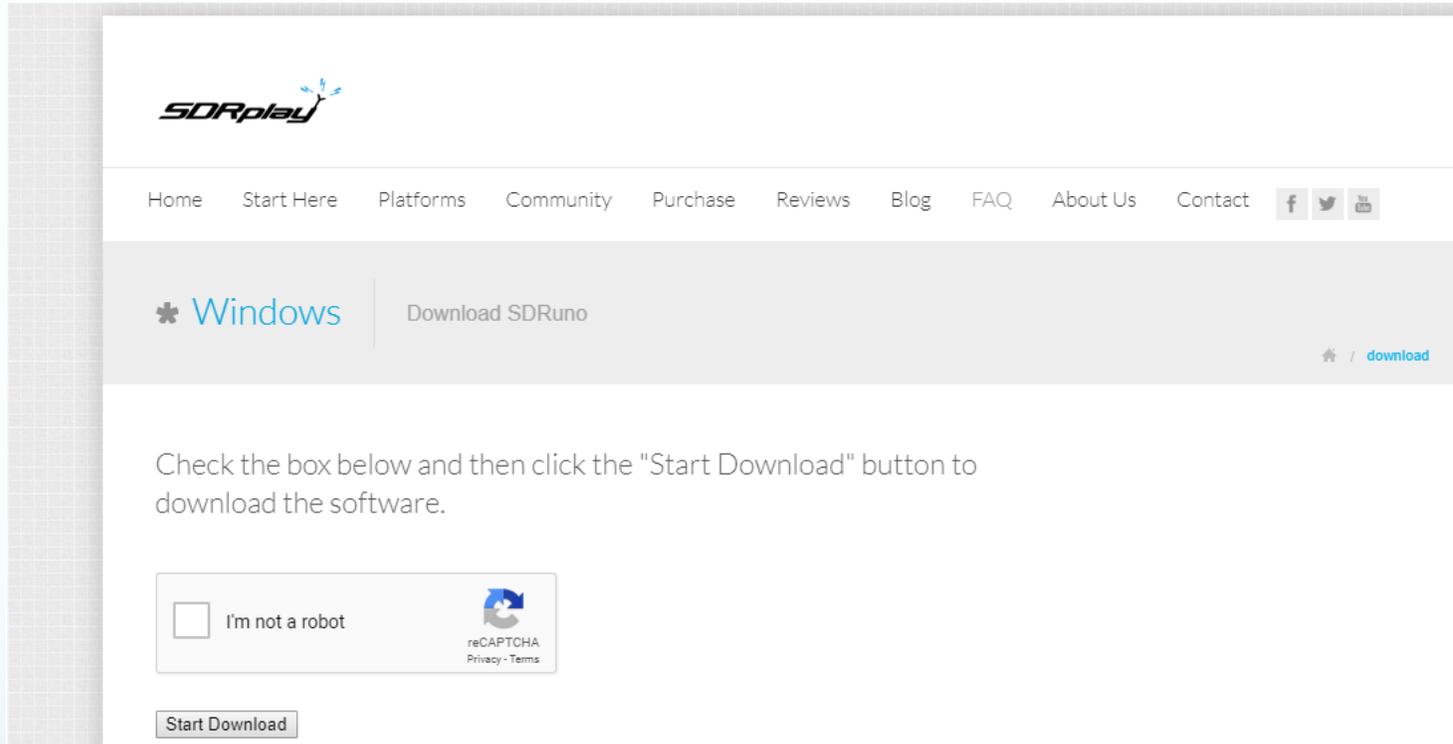
This page will remain open so you can refer back to it after you've performed the installation below.

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

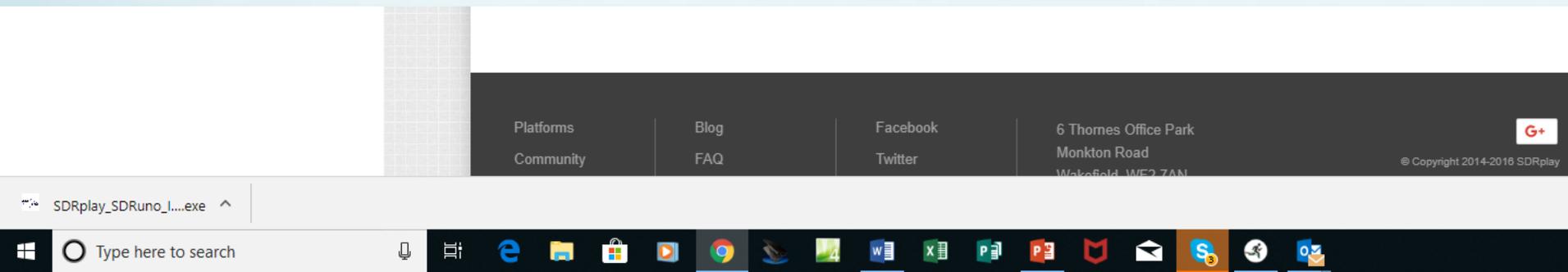
Was the installation successful?



Follow the Prompts

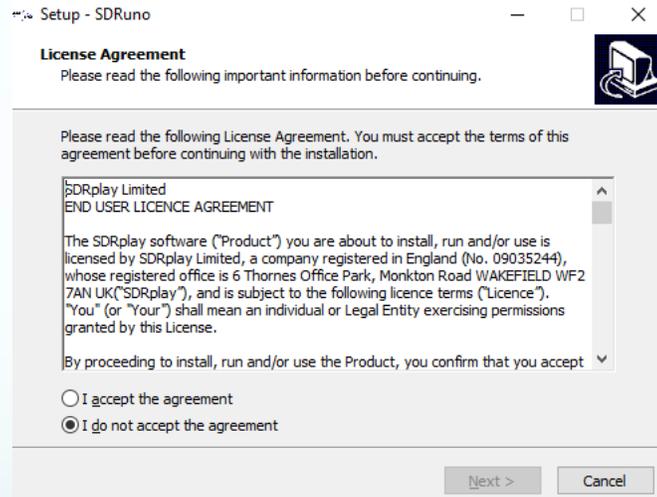


Click here and then
“open”



Follow the prompts

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

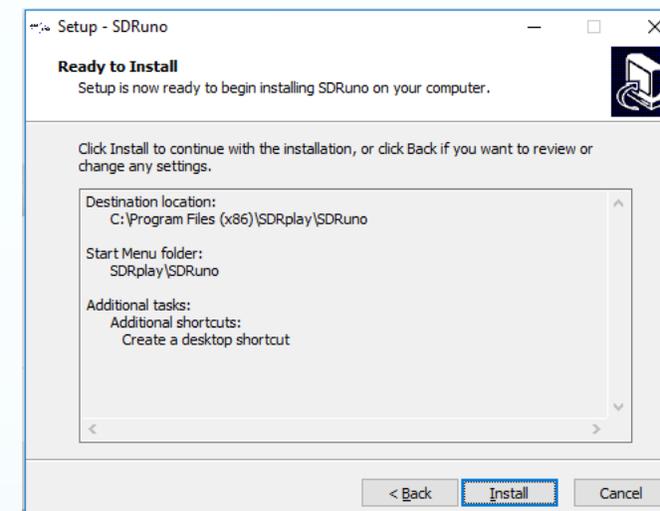
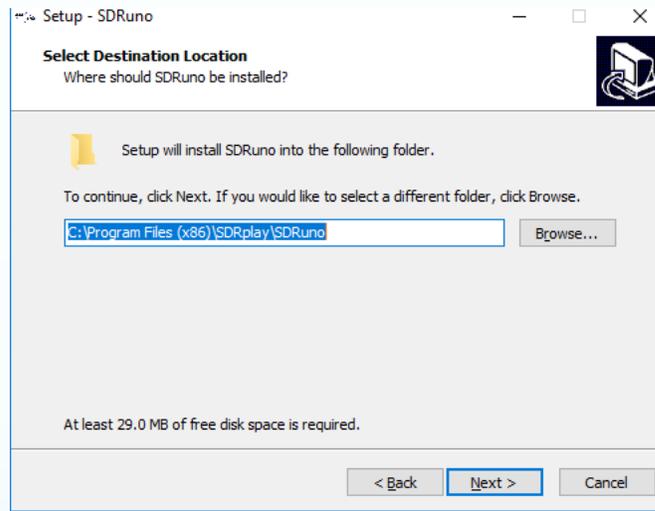


PLEASE MAKE SURE your new RSP is DISCONNECTED FROM THE MACHINE BEFORE CONTINUING WITH THE DRIVER INSTALLATION



Follow the prompts

Accept the default file location & click Next



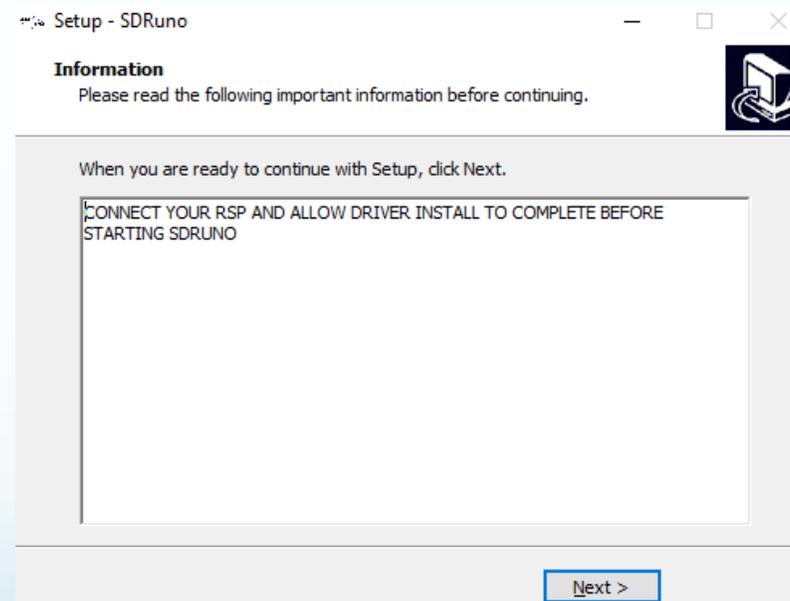
Accept the default file location & click Next and SDRuno will automatically install



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"



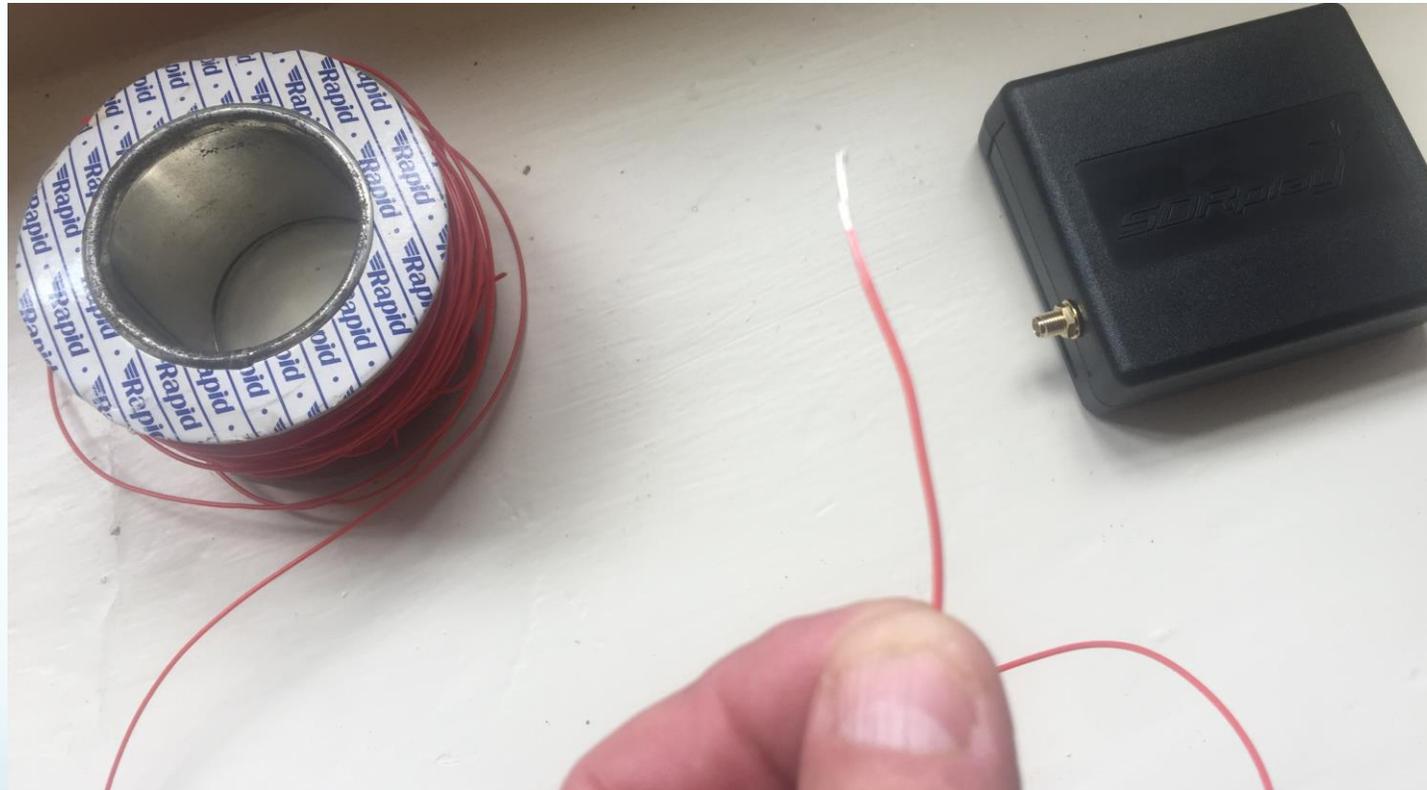
Click on "Finish" and SDRRuno will launch – lots of windows will automatically appear and arrange themselves on your PC screen (accept these defaults for now)



Now we need an antenna



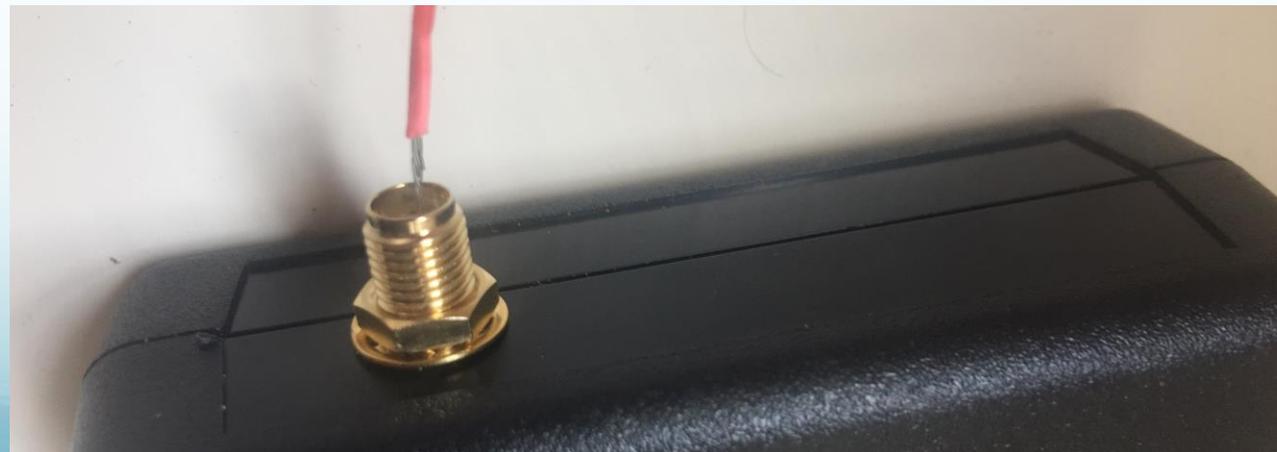
For shortwave, say the 49 metre band, 10 metres or more of PVC coated thin multistrand wire will work well if you can get it outside and away from strong sources of electrical noise.



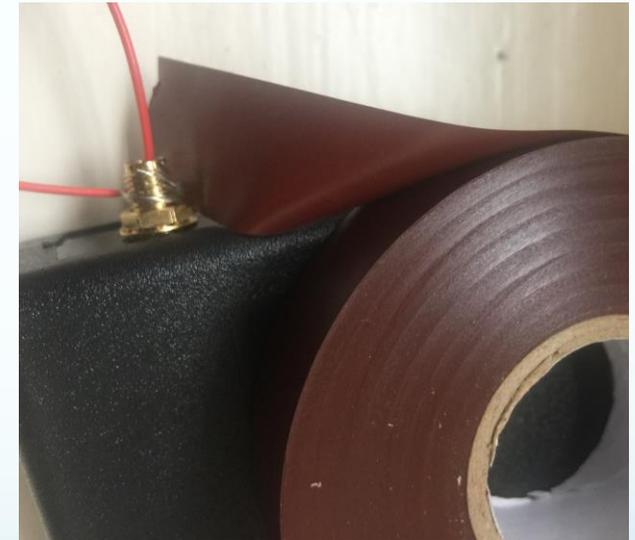
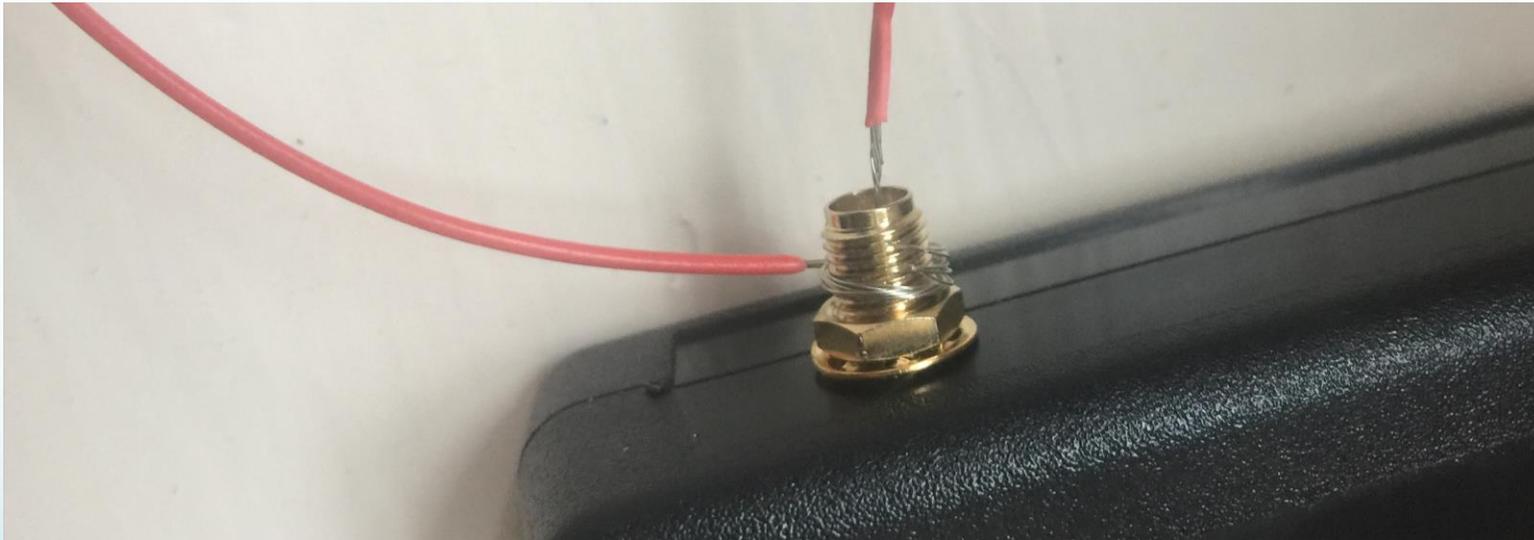
Now we need an antenna



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 or wire to the outer of the coax allows you to ground the unit which will further improve the signal strength. This can be connected to the house-wiring ground, a metal radiator system, a grounding rod or even a metal window frame to act as a “counterpoise”



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)



[Click here for a demo recording from the UK](https://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

Downloads

SOFTWARE

- Windows
- Linux x86
- Mac
- Raspberry Pi
- Android
- ARM64

- ↓ SDRUNO – V1.22 (13TH JAN 2018)
(RSP1/RSP1A/RSP2) Includes hardware driver
- ↓ SDRUNO – V1.23 (18TH MAY 2018)
(RSPduo) Includes hardware driver
- ↓ HDSDR – V2.76 (15TH NOV 2017)
(RSP1/RSP1A/RSP2) Includes hw driver/API/EXTIO plugin

DOCUMENTATION

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

- SDRUNO USER MANUAL
(version 1.22 / 13th January 2018)
- SDRUNO (RSPDUO) USER MANUAL
(version 1.23 / 18th May 2018)
- SDRUNO RELEASE NOTES
(version 1.23 / 18th May 2018)



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(RSPduo) Includes hardware driver
-  **HSDR – V2.76 (15TH NOV 2017)**
(RSP1/RSP1A/RSP2) Includes hw driver/API/EXTIO plugin
-  **EXTIO PLUGINS – V1.1 (15TH NOV 2017)**

DOCUMENTATION

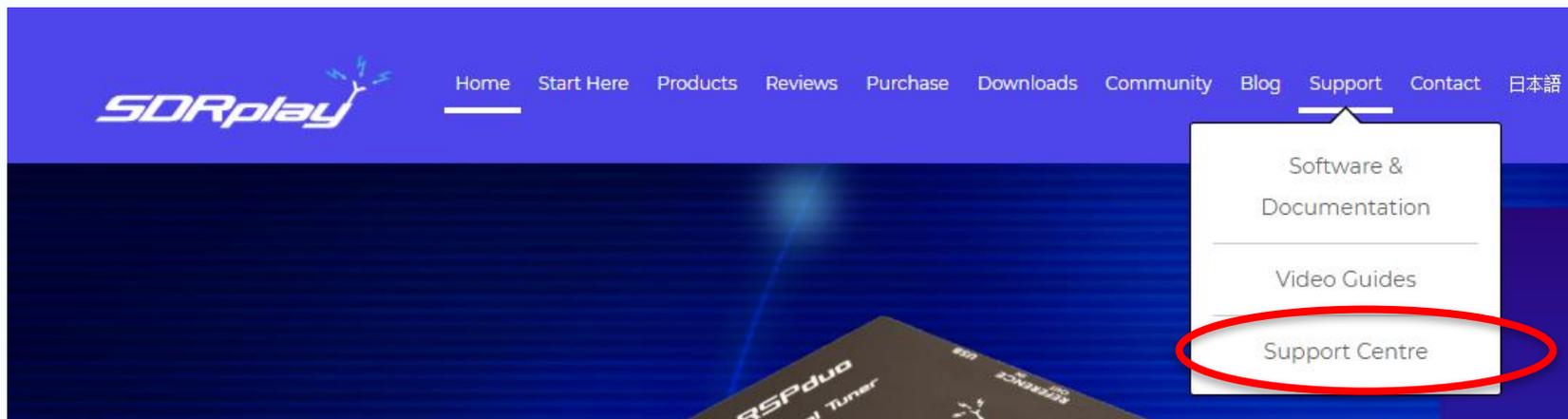
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-  Links
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VIDEO GUIDES AND INFORMATION

- (click above for link to videos)
- SDR FOR HAMS SLIDESHOW (AS A .PDF DOWNLOAD)**
(click above for a slide presentation for use by ham radio clubs as an introduction to SDR and the RSP family, updated Feb 2018)
- RSPDUO PRESS RELEASE**
(click above for the press release of the RSPduo, 18th May 2018)



And you'll get support direct from SDRplay:



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

