

## RSP family of Full Featured Wideband SDR Receivers













#### What is an SDR?

A radio communication system where components that have been traditionally implemented in hardware...

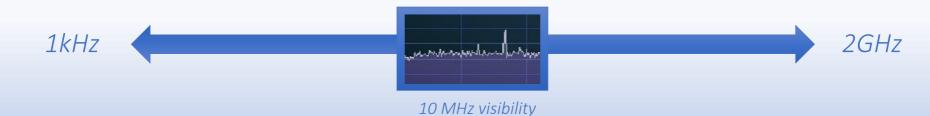
(e.g. mixers, filters, amplifiers, modulators/demodulators, detectors, etc.)

...are implemented by software on a PC or embedded system.



## RSP1A



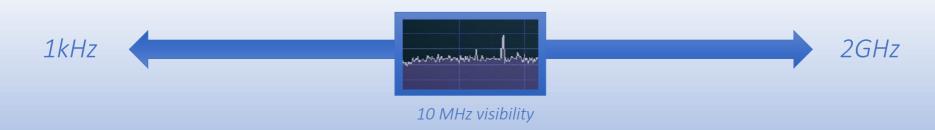


- Entry-level, single antenna SDR receiver
- 1kHz 2GHz coverage with up to 10MHz spectrum visibility
- All round functionality with single antenna port
- Includes free SDRuno software for Windows









- 1kHz 2GHz coverage with up to 10MHz spectrum visibility
- 3 software selectable antenna ports (2 x 50Ω plus High Z)
- External clock input for GPS accuracy
- Ability to synchronise multiple RSPs
- Includes free SDRuno software for Windows
- RSP2pro has a rugged black painted steel case

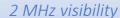


## **RSPduo**





2 MHz visibility



- 1kHz 2GHz coverage with up to 10MHz spectrum visibility or...
- 2 independent tuners giving 2MHz visibility anywhere from 1kHz to 2GHz
- Simultaneous processing from 2 antennas enables new direction finding, diversity and noise reduction applications
- 2 x Phase and Time synchronous IQ streams out
- Includes free SDRuno software for Windows
- Additional filters



### Quotes from eHam.net reviewers:

"This was probably the best £100 I have spent on radio kit (RSP1A)."

"The wide coverage 10kHz to 2Ghz gives you a lot of scope to do new (well, new to me) stuff - amateur satellites, WXsat images, low band working. Using the VB virtual audio cable you can feed the appropriate decoding software very easily."

"I recently added the RSPduo and SDRuno to my arsenal of DX chasing tools and I'm so glad I did."

"It works pretty good on MF/LF, I am copying WSPR stations across Europe on 472kHz even in summer, lots of NAVTEX on 518kHz, it gets excellent copy on Region 1 LW broadcast stations, pretty good on MW broadcast too. The built in filters work well."

"Very impressed with what it will hear with this antenna set up. The box is tiny and makes for a tidy shack compared to a bank of different receivers."

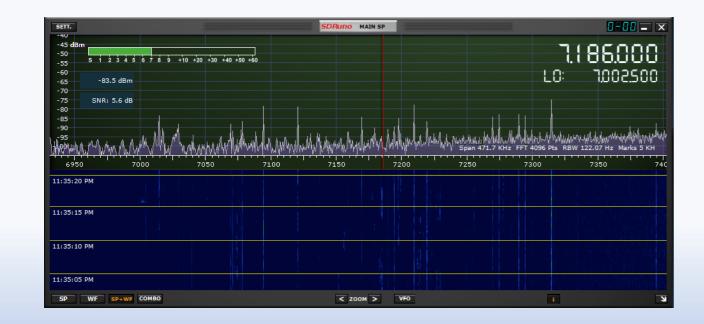
"I found set up extremely straightforward - the SDRplay website gave me everything I needed"

"The performance of this receiver is simply incredible! I also have the RSP1A and the RSP2pro, and just added the RSPduo to my collection of receivers. The RSPduo has the best of everything; 2 independent receivers, 14-bit ADC, heavy duty robust metal enclosure to protect the SDR and help shield RFI, and three software selectable antenna ports! For the price, the performance and flexibility of this SDR is off the charts. Unbelievable sensitivity and the ability to control all parameters and dial in reception is amazing. And I do mean unbelievable sensitivity! I have owned many, many great receivers, and this small box will stand toe to toe with the best of them. And as a bonus, you have two independent receivers in one small box! Amazing, just amazing."





## What is a Panadapter?



"Go-to" choice for Kenwood, Yaesu, Icom, Elecraft etc!

- "Panadapter is short for Panoramic Adapter. The simple answer is that it allows us to see a panoramic display of the band our radio is tuned to. We can see every signal"\*.
- Early implementations used a PC soundcard to achieve this function but were therefore limited to 200 kHz of bandwidth because they rely on the sound card.
- The advent of affordable SDR hardware such as the RSP1A has allowed implementations with much greater bandwidth, and hence much more usefulness.
- combined with readily available, and capable, SDR software Panadapters are now an affordable and easy to implement reality!

\* Definition courtesy KA9MOT <a href="http://mypanadapter.com/">http://mypanadapter.com/</a>



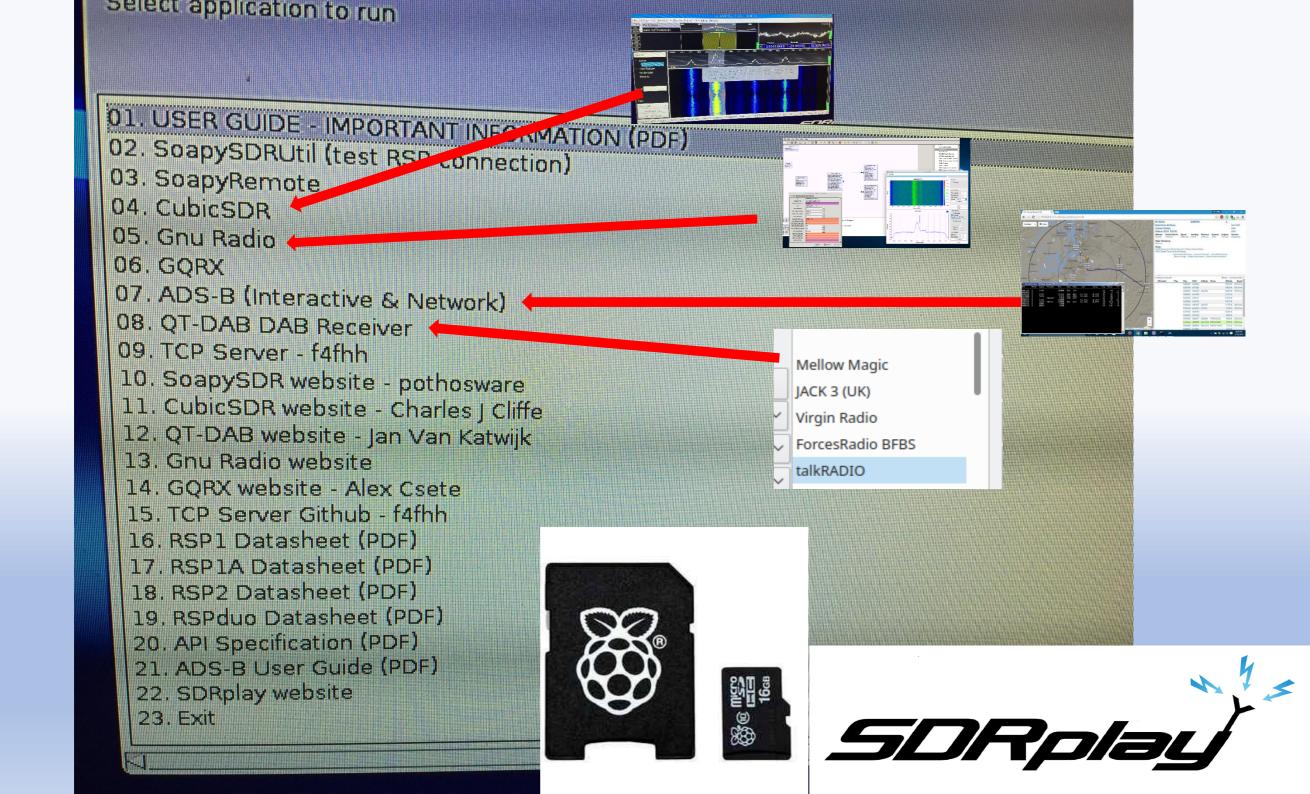


## RSPduo & SDRuno - Monitoring 2 widely spaced bands, simultaneously





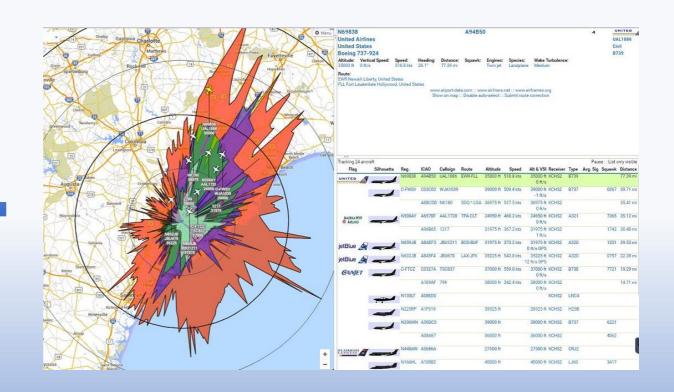






## RSPduo – mix and match applications simultaneously

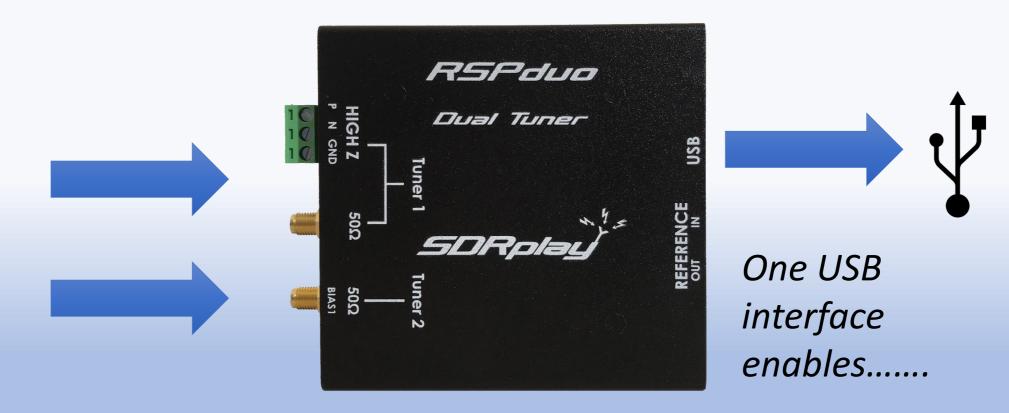




ATC ADSB



## RSPduo – 2 simultaneous tuners – locked in phase and time



Diversity Demodulation: Spatial, Frequency and Polarisation



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## SDRuno: multiple VFOs and applications





## Visualise entire amateur bands as a stand-alone receiver or as a panadapter



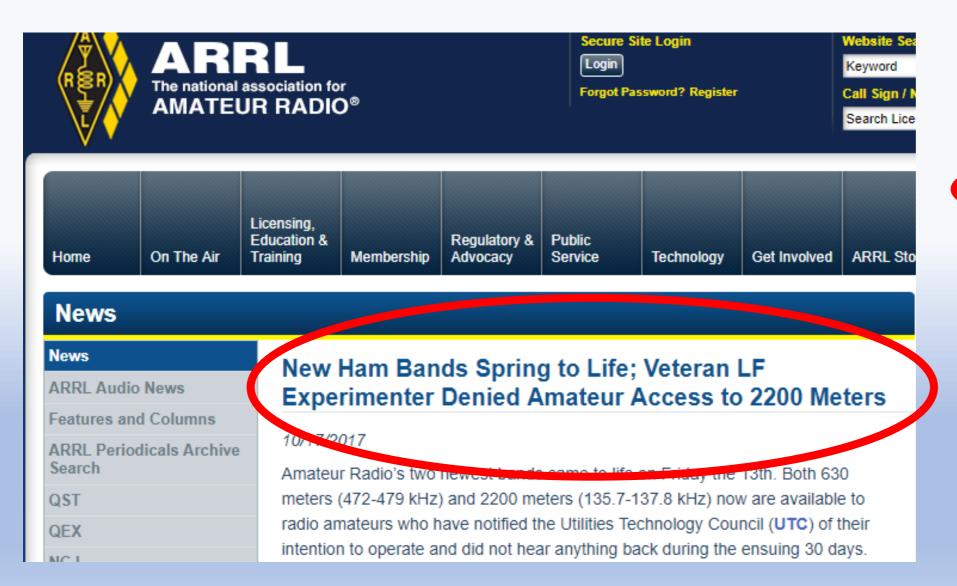


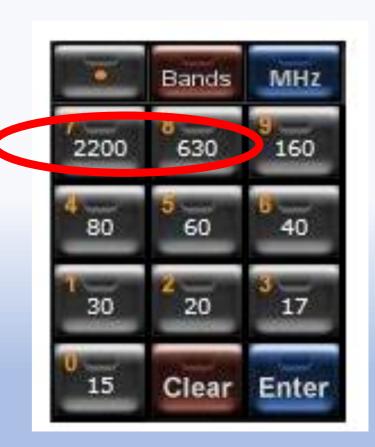
## GOES Satellite Reception (1.7GHz):





## Explore new VLF bands







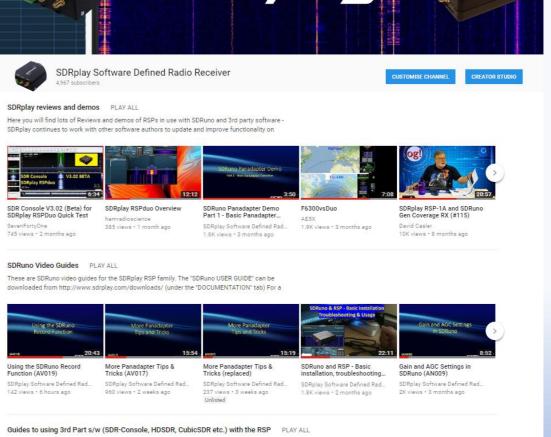
# Applications and Video guides: YouTube channel & Searchable catalogue



The SDRplay Applications and Support Catalogue is your reference point for numerous Application Notes, Application Brithrough the entire list, or use the category drop-down to home in on your area of interest. Or you can just look for keyword corresponding icon for the YouTube Video or the PDF document. For more detailed information on each item, click or tap icons)









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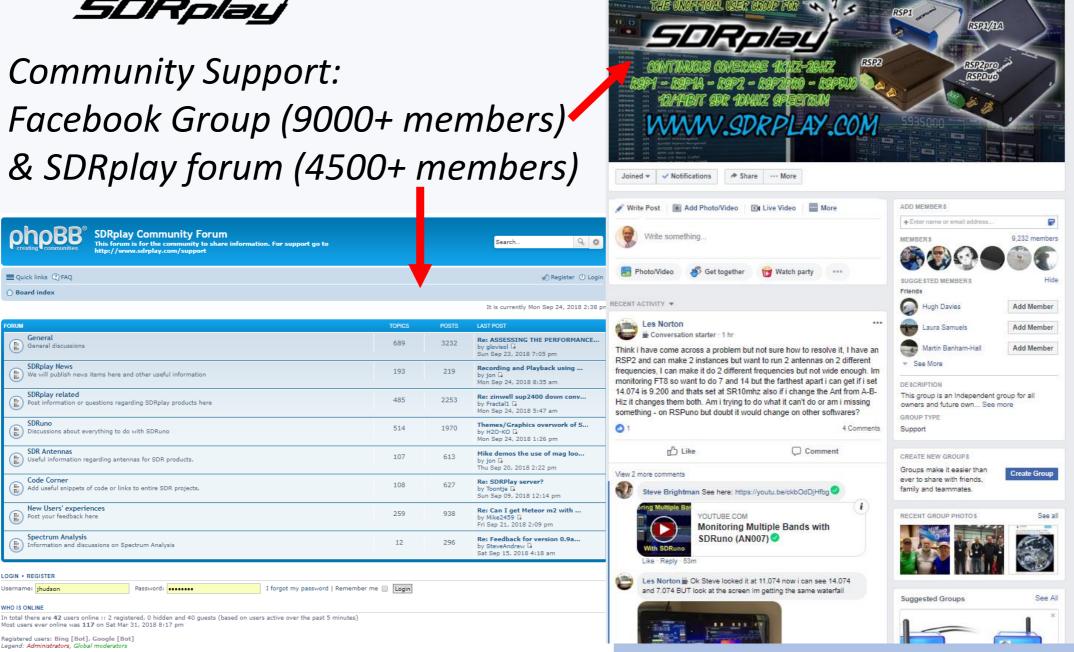
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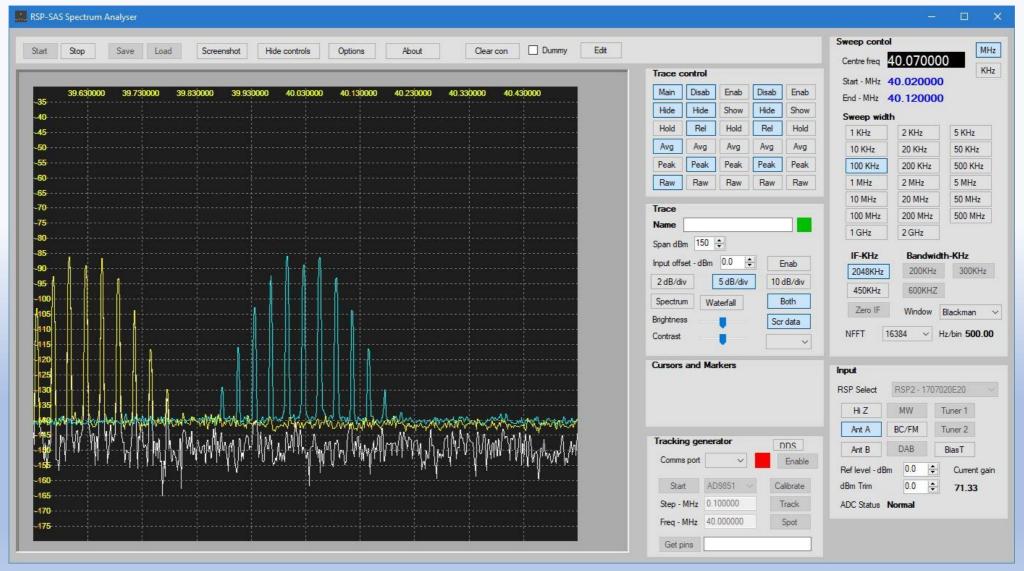
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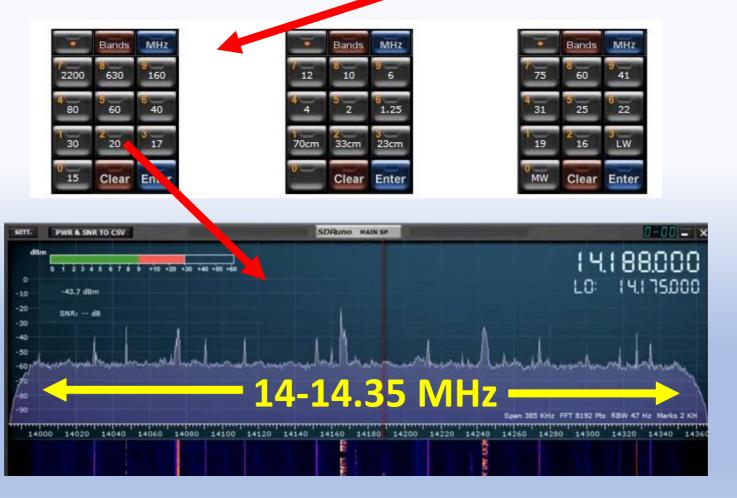
## Spectrum Analyser function – October beta release





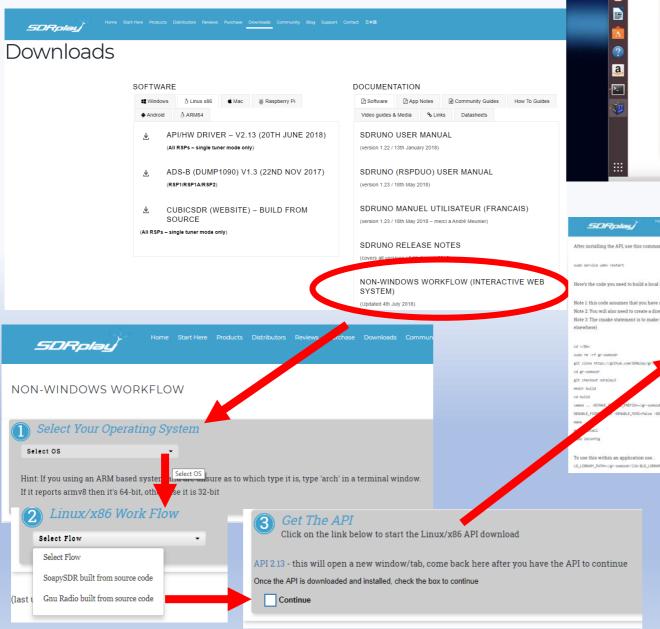
SDRuno Ham Band Framing: "Ham Lower, 20m example)

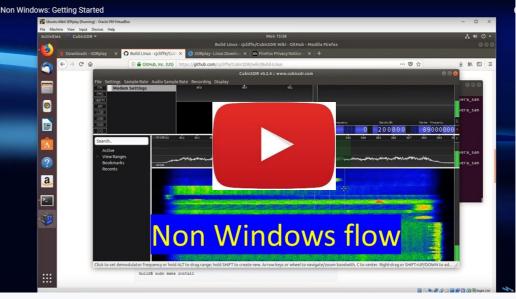


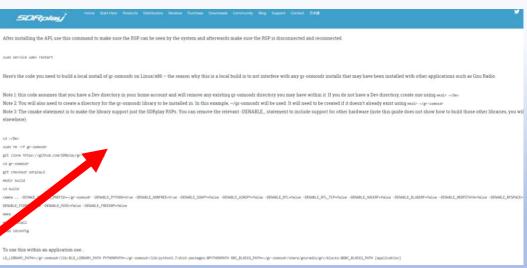




#### Non Windows WorkFlow:







Code, instructions and video guide



## SDRPINE Direct support from SDRplay

