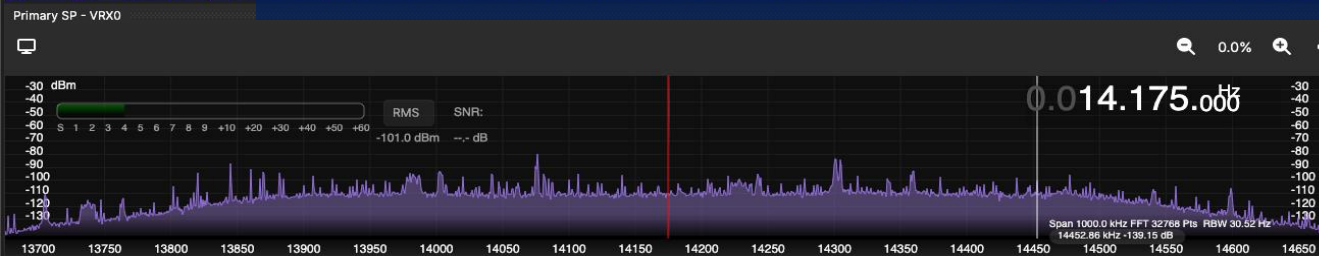


Primary SP



ORLANDO
HamCation
8th Feb 2025

SDRplay
Presenter:
Steve Brightman KI5ENW



SDRplay

Agenda

- The Basics
- Applications
- Hardware
- Software
- Panadapters
- Support & Information Sources
- Q&A



What is an SDR?

- A radio communication system where many 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.

- The hardware portion consists of pre-selection filters, possibly some IF filtering and a Analog-to-Digital Converter
- SDR is a technique, the actual implementation will vary by application:
 - e.g. Receivers tend to concentrate on wide bandwidth, Transceivers on narrower bandwidth at a specific frequency

Why do I want an SDR Receiver?

Top Ten List

1. True general coverage
2. Work one frequency and still monitor the entire band (or another band!)
 - Panadapter (suddenly your eyes can do 1000X what only your ears could do previously, one signal at a time!)
3. Audio and IF Digital Signal Processing (DSP)
4. Filters! (brick-wall envelopes... improving all the time with s/w upgrades)
5. Harness the power of your existing Computer
6. Multiple VFOs and/or virtual receivers
7. Schedule and Record large bandwidths of the spectrum and tune later!
8. Record/playback of audio from a specific signal
9. Allows you to explore new applications:
 - Digital modes, WX satellites, radio astronomy, aircraft monitoring, digital stations, TV, DAB, Ionosondes etc etc
10. Can you ever have too many receivers?

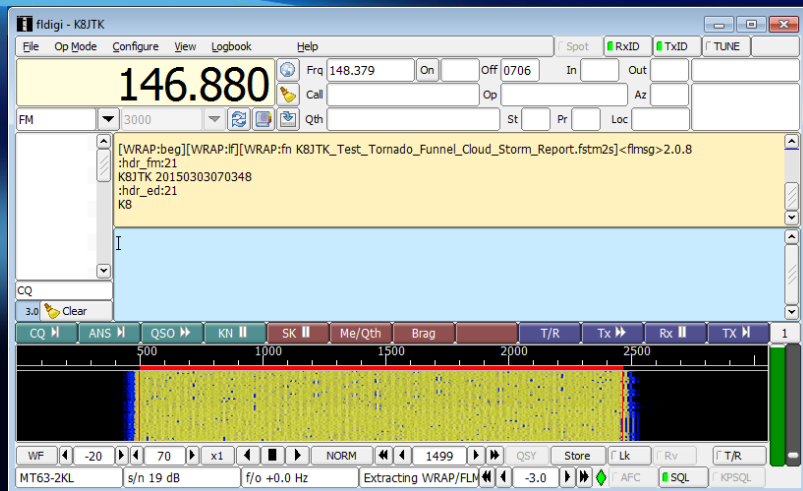
Application Examples

(setup and use videos available at sdrplay.com)



Fldigi Digital Decoding

Fldigi NBEMS (Narrow Band Emergency Messaging System)

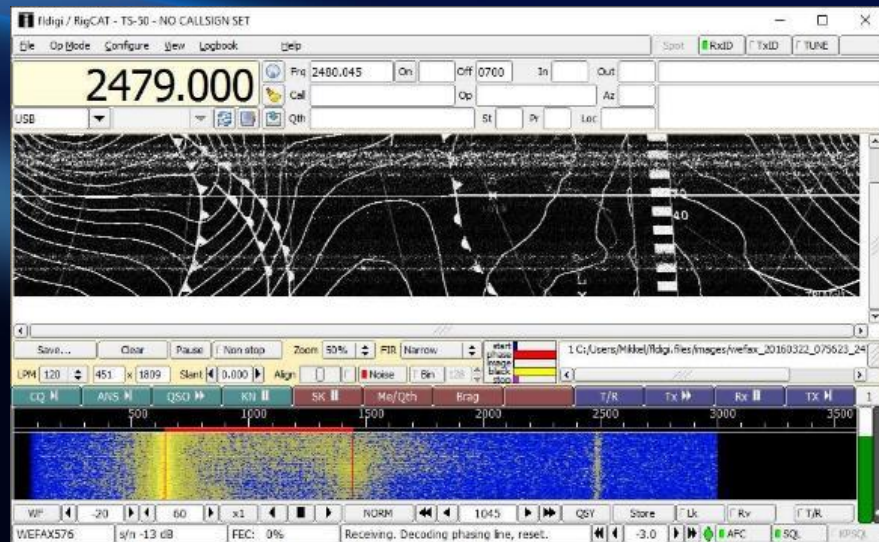


Credit: Jeff Kopcak, k8jtk

Fldigi:

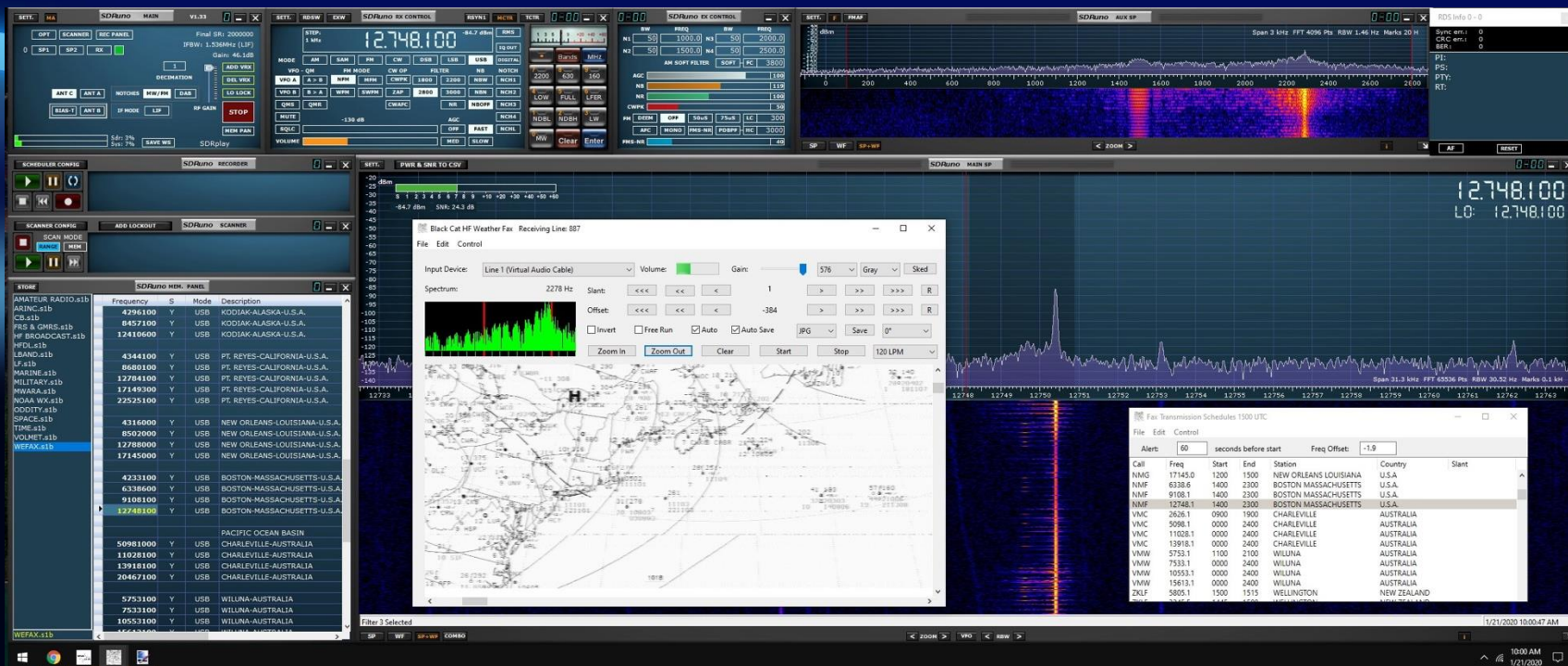
<http://www.w1hkj.com>

...and WEFAX Decoding



Credit: Erik Mikkell Wied

HF Weather Fax



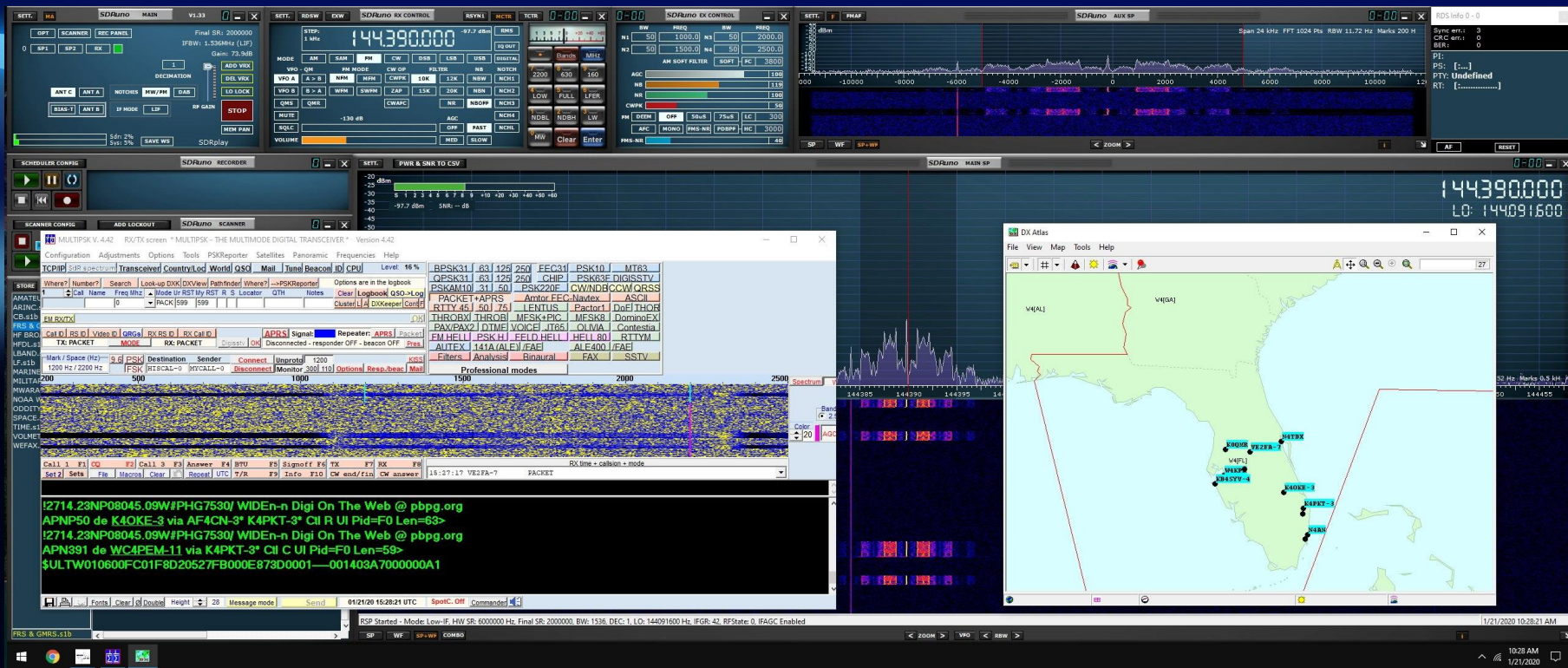
Black Cat Systems:
<https://www.blackcatsystems.com>

Credit: Mike Ladd, KD2KOG

www.sdrplay.com



MultiPSK



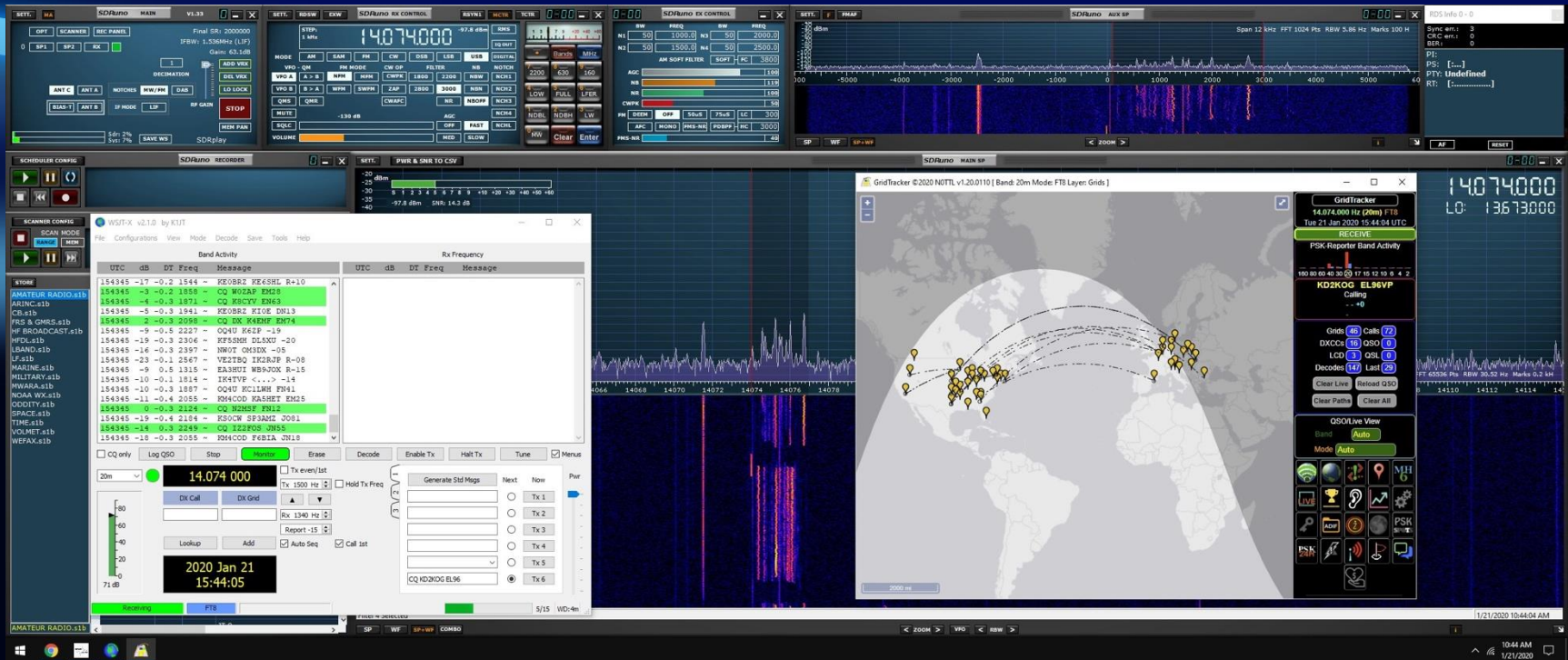
MultiPSK:
http://f6cte.free.fr/index_anglais.htm

www.sdrplay.com

Credit: Mike Ladd, KD2KOG



WSJT-X and GridTracker



WSJT-X: <https://physics.princeton.edu/pulsar/K1JT/wsjsx.html>

GridTracker: <https://tagloomis.com/grid-tracker/>

www.sdrplay.com

Credit: Mike Ladd, KD2KOG



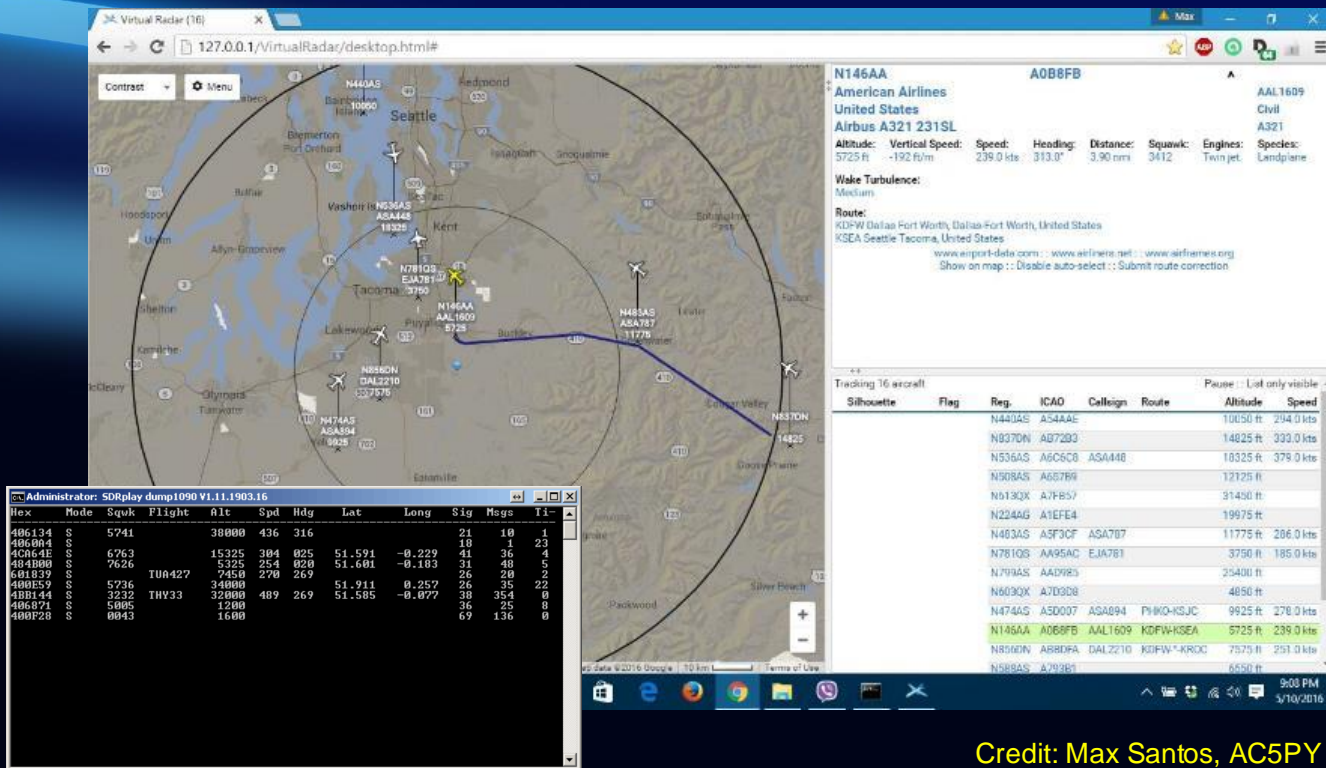
CSV Userlist Browser



CSV User List Browser: <https://www.df8ry.de/htmlen/home/welcome.htm>

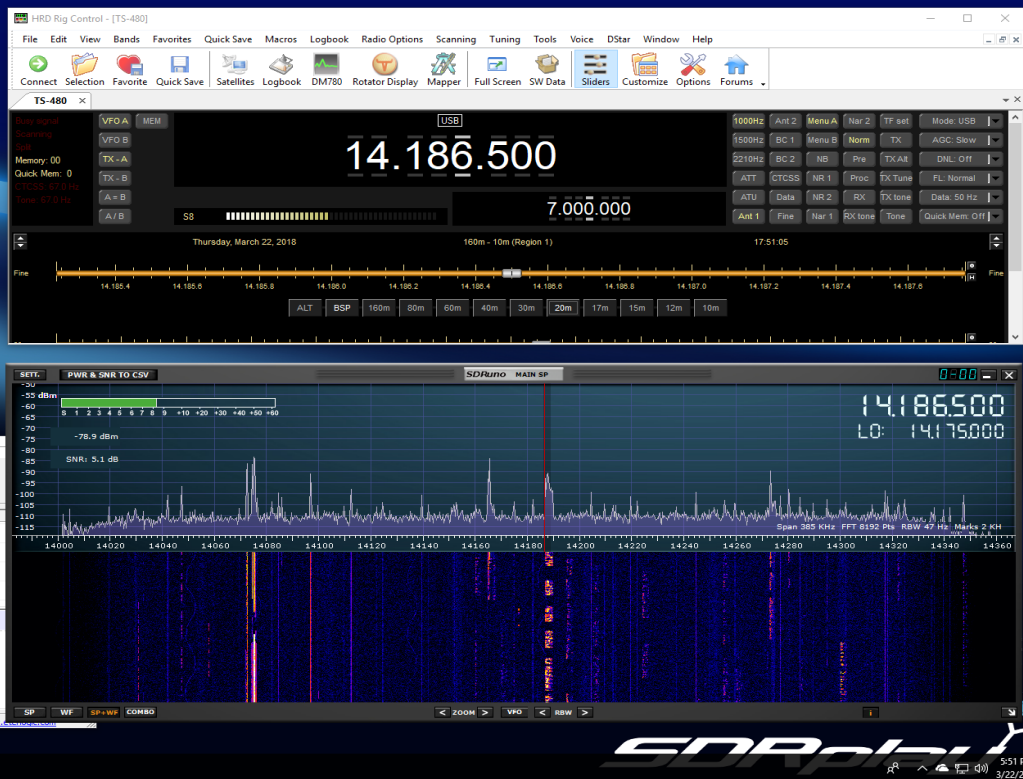
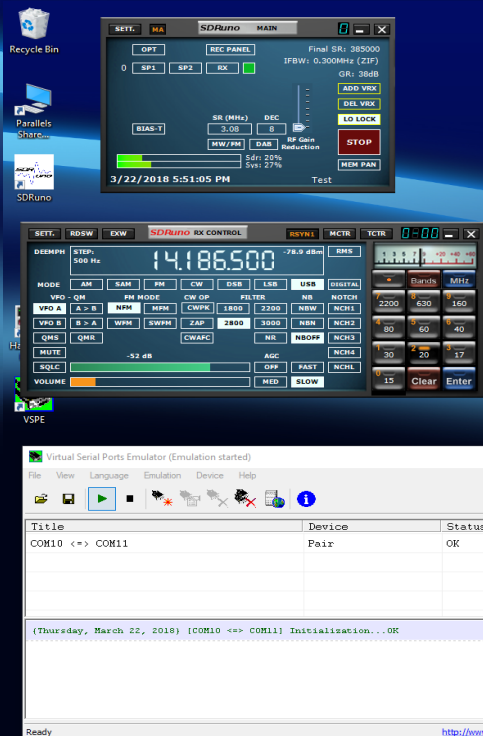
Credit: Mike Ladd, KD2KOG

ADS-B decoding example using Dump1090 and VRS



Credit: Max Santos, AC5PY

Ham Radio Deluxe (including DM-780 and Logbook)



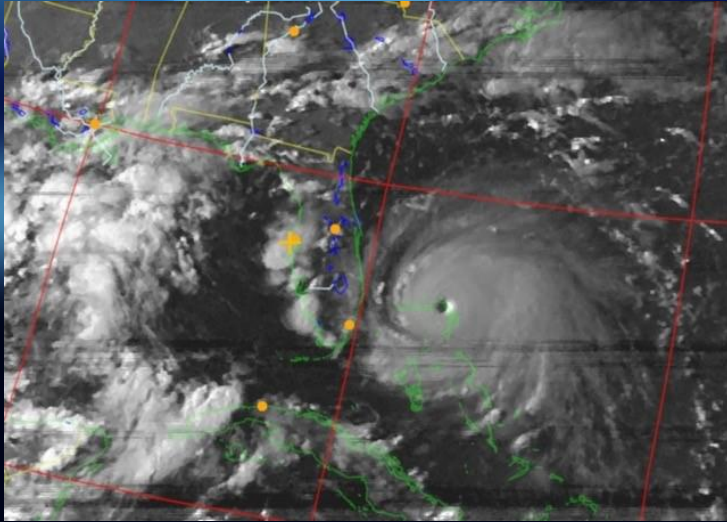
Ham Radio Deluxe:
<https://www.hamradiodeluxe.com/>

www.sdrplay.com

Credit: Steve Brightman, K15ENW



NOAA Weather satellite (137 MHz) - Wxtoimg (RSP1)

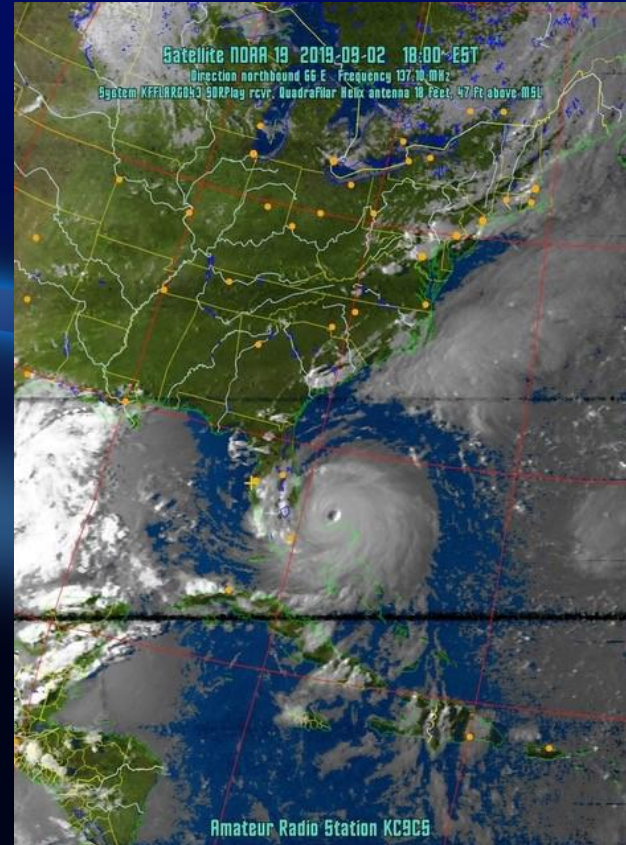


User pictures from the facebook group:

www.facebook.com/groups/sdrplay/

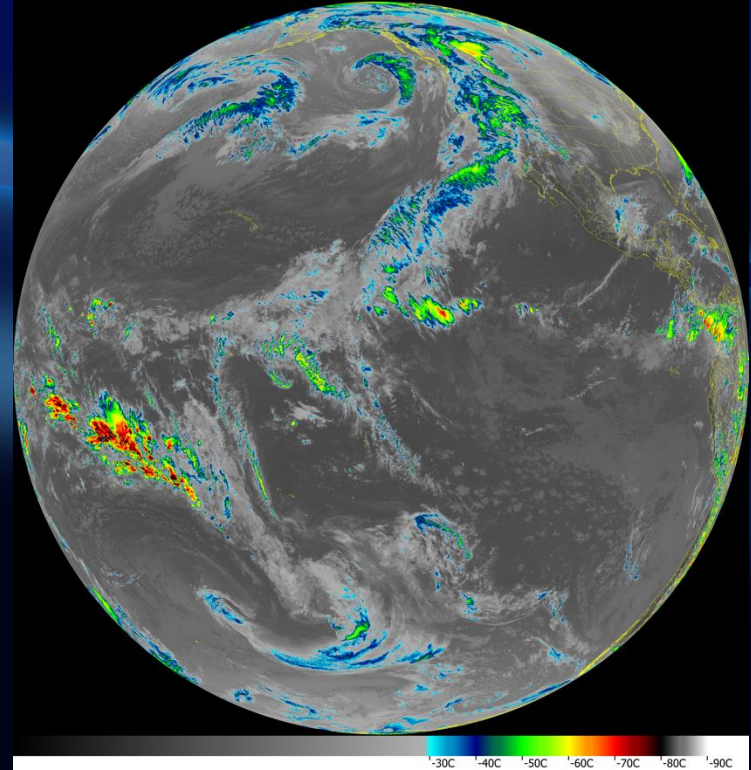
Wxtoimg:

<http://www.wxtoimg.com>



Credit: Hurricane Dorian by Bill Otten, KC9CS

High Resolution imagery received from the NOAA GOES 16 and GOES 17 satellites (1.7GHz)



Credit: Bern Bareis

www.sdrplay.com

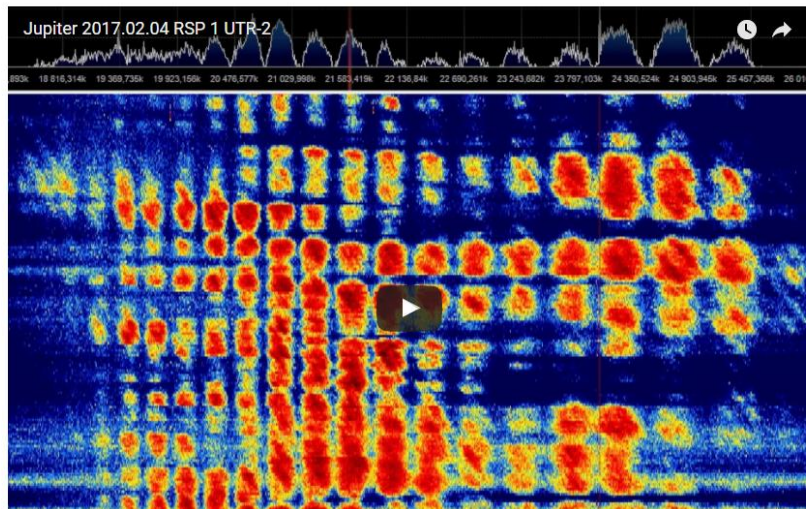


Tune in to Jupiter!

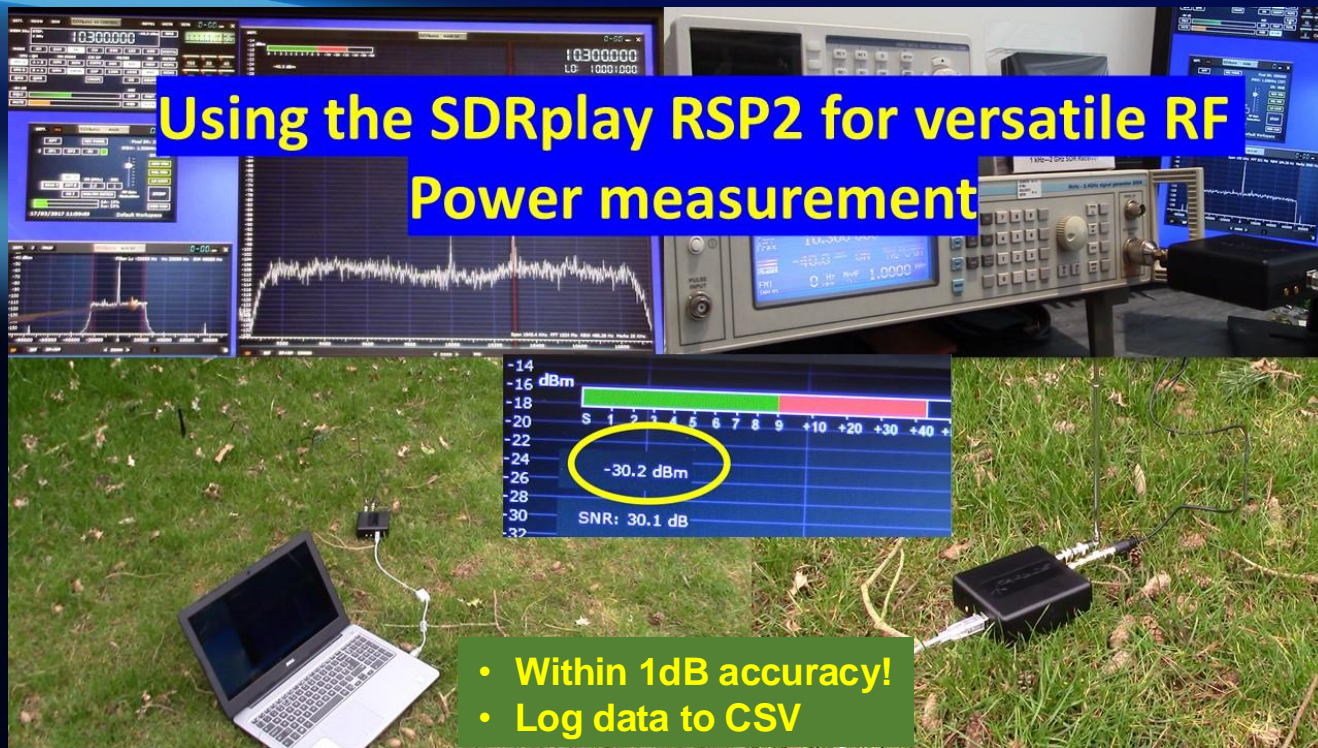
RECEIVING JUPITER NOISE BURSTS WITH AN SDRPLAY RSP1

Over on YouTube user [MaskitoSAE](#) has uploaded a video showing him receiving some noise bursts from Jupiter with his SDRplay RSP1. The planet Jupiter is known to emit bursts of noise via natural 'radio lasers' powered partly by the planets interaction with the electrically conductive gases emitted by Io, one of the planets moons. When Jupiter is high in the sky and the Earth passes through one of these radio lasers the noise bursts can be received on Earth quite easily with an appropriate antenna

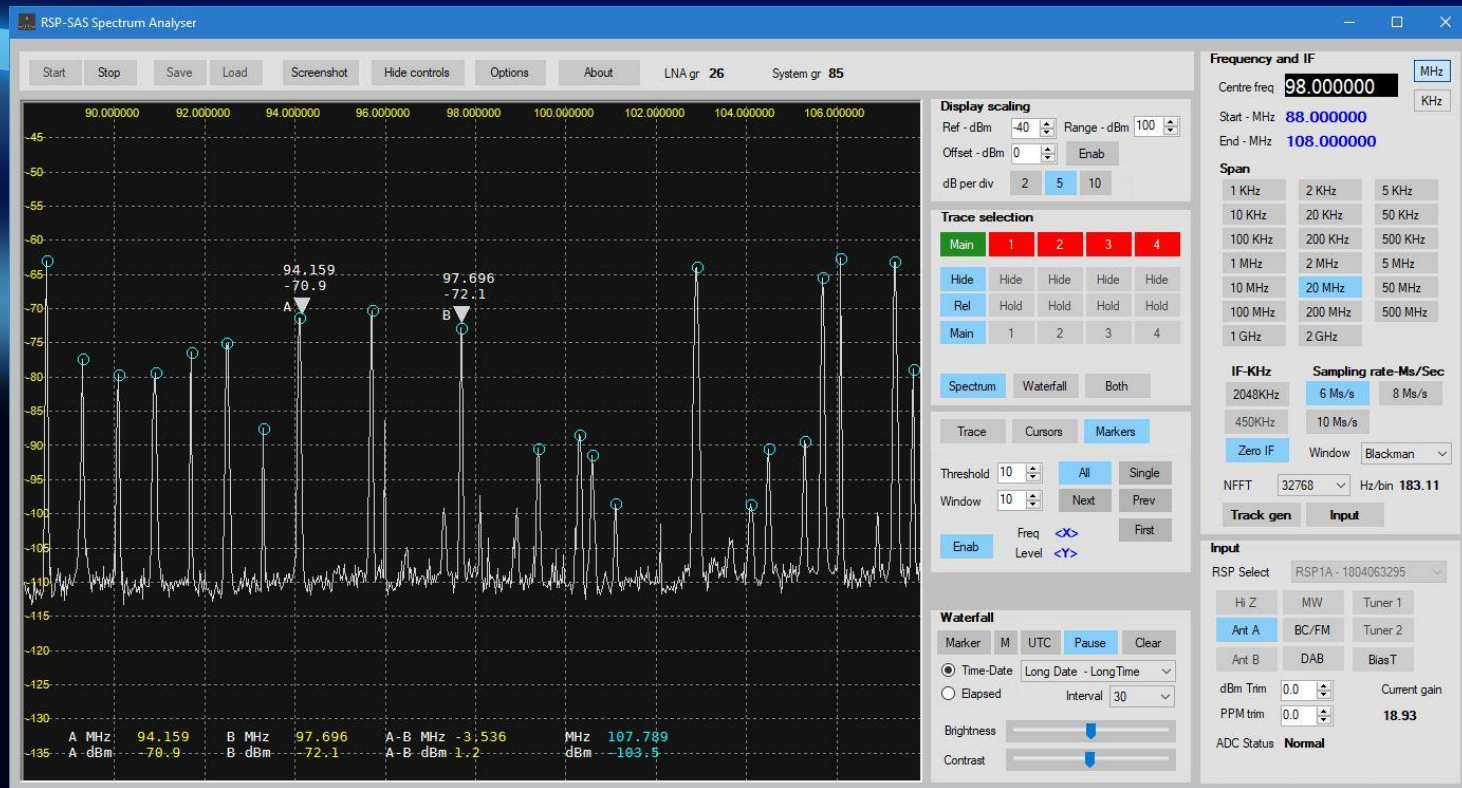
In his video [MaskitoSAE](#) shows the 10 MHz of waterfall and audio from some Jupiter noise bursts received with his SDRplay RSP1 at 22119 kHz. According to the YouTube description, it appears that he is using the [UTR-2 radio telescope](#) which is a large Ukrainian radio telescope installation that consists of an array of 2040 dipoles. A professional radio telescope installation is not required to receive the Jupiter bursts (a backyard dipole tuned to ~20 MHz will work), but the professional radio telescope does get some really nice strong bursts as seen in the video.



*Doubles as a new piece of RF lab kit:
an RF Power meter – get one for work or play!*



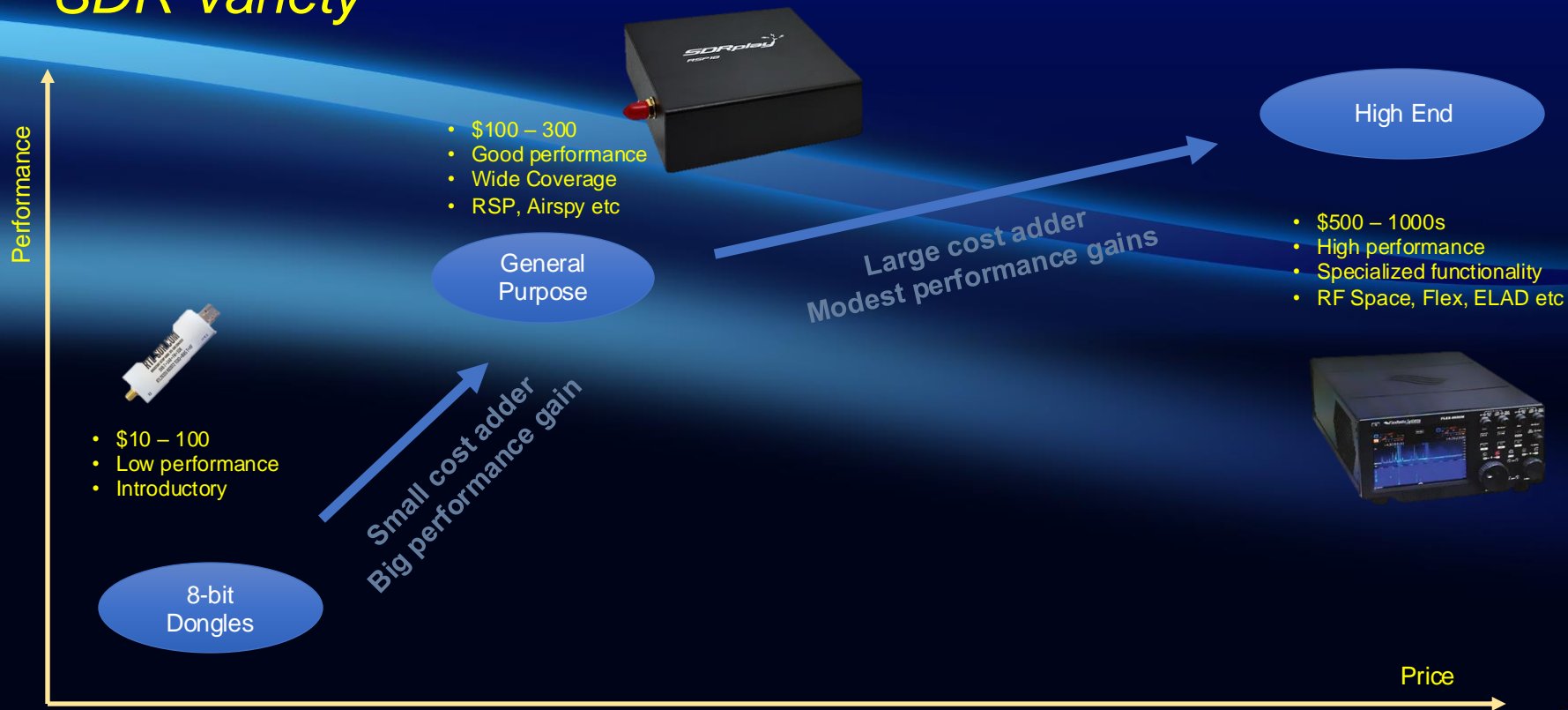
SAS Spectrum Analyser – Make your RSP into a Spectrum Analyser!



SDR hardware



SDR Variety



Review of SDR receivers

– what to consider:

- **Frequency Range:** The range of frequencies the SDR can tune.
- **ADC Resolution:** Higher is better. More resolution means more dynamic range, less signal imaging, a lower noise floor, more sensitivity when strong signals are present and better ability to discern weak signals.
- **Instantaneous Bandwidth:** The size of the real time RF chunk available.
- **RX/TX:** Can the radio receive and/or transmit?
- **Preselectors:** Analogue filters on the front end to help reduce out of band interference and imaging.
- **Software:** Is your favourite package supported? Does manufacturer provide software and support?
- **Price**

Instantaneous bandwidth illustration

RSP1B



RSPdx-R2



RSPduo



10 MHz visibility

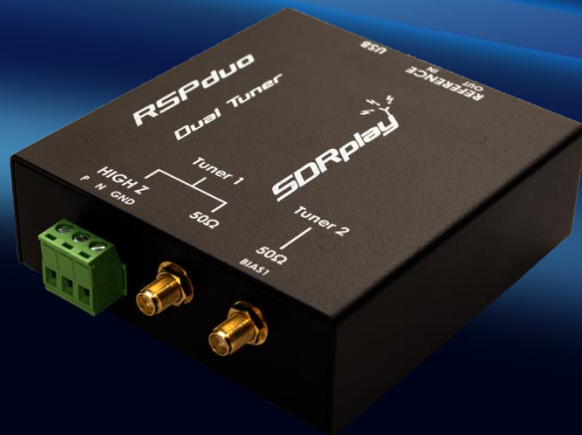
1kHz



2GHz

RSPduo - Dual independent tuners!

- Single 10MHz slice, like the other RSPs, or....
- Two independent “slices” anywhere in the coverage range



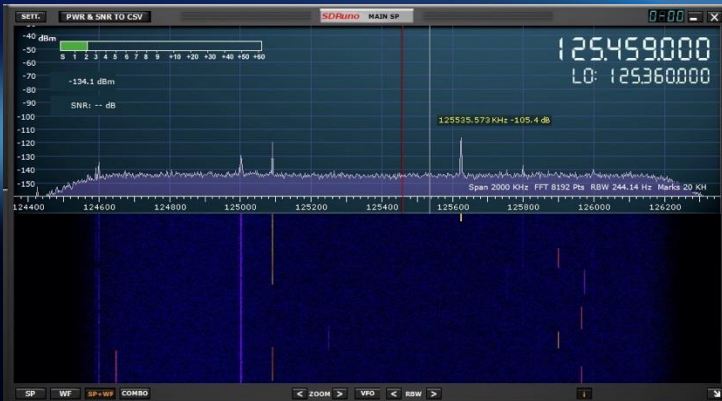
SDRplay Receivers – RSP Family Characteristics

- Continuous SDR receiver coverage from VLF to 2 GHz
- All the amateur radio bands from VLF to 23cm
- High performance ADC technology (not another compromise SDR!)
- Built-in high performance front-end filters
- Use as a stand-alone general coverage receiver, or as a high resolution panadapter
- Visualize all the signals in multiple bands simultaneously
- SDRuno™ (Windows) and SDRconnect™ (multi-platform) SDR software provided free-of-charge
- Works with 3rd party SDR software e.g. HDSDR, SDR-Console, CubicSDR, SDR++
- Runs on a Raspberry Pi – download SDRconnect
- Built-in remote operation (Client/server) - SDRconnect
- Ideal for portable operation (powered via USB)
- Can be used as a Spectrum Analyzer or an RF Power Meter
- Backed by the world's biggest and best SDR support community!

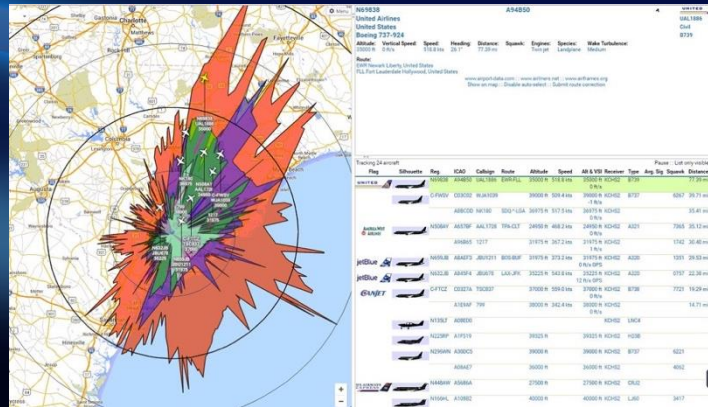
RSPduo - Monitor two widely spaced bands simultaneously!



RSPduo - Mix and match applications simultaneously!



ATC
~100MHz



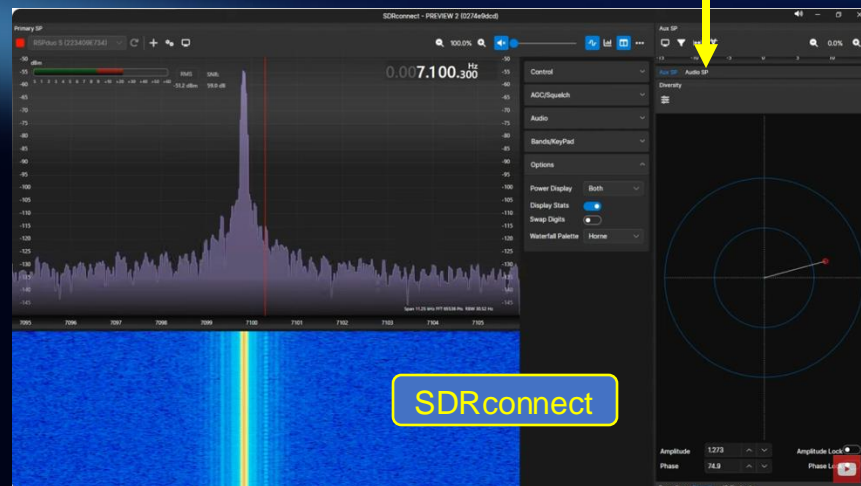
ADSB
~1GHz

RSPduo - Diversity Tuning!!!



New Diversity Panel
(shows phase and amplitude)

- Only RSPduo supports Diversity Tuning
- MRC (Maximum Ratio Combination) for noise reduction (AUTO mode, SDRuno)
- Interference Rejection (Manual mode)



RSPdx – Multiple Inputs & HDR



- Improved replacement for RSP2/pro
- 3 Software selectable inputs
- Additional 500kHz LPF for LF/VLF
- HDR mode for enhanced performance under 2MHz
 - Great for Dxers!
- Notch filters on all inputs
- BNC input for reception up to 200MHz
- Rugged steel case

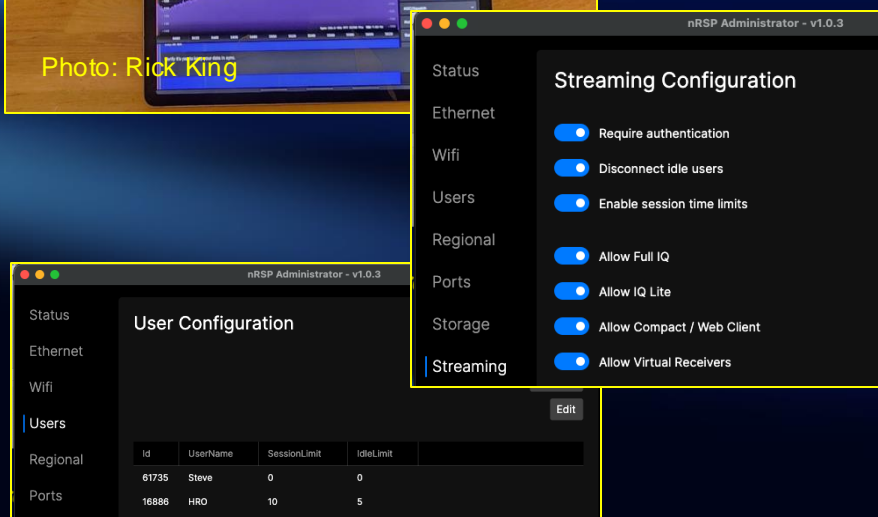
nRSP-ST - Single tuner, all-in-one Networking Receiver!



- A truly “plug and play” remote access 14-bit general coverage SDR radio receiver
- Connect directly to your local network (ethernet or Wi-Fi) - no host computer required!
- Can be accessed from anywhere with a choice of connectivity modes for optimised remote access:
 - Full IQ
 - IQ Lite
 - Compact
- Supports multiple client connections with a simultaneous mixture of connection modes
- Choice of 2 remote access options – use SDRconnect™ remote client, or the built-in web-server:
 - access from any web browsing capable device, including Android/iOS tablets and phones
- Ability to record IQ and audio files to a NAS (network attached storage) device if available

nRSP-ST - Your Device, access from anywhere!

- At home - nRSP-ST out in the shack, access from the comfort of your living room
- Away - still have full access to your nRSP-ST from:
 - SDRconnect client software
 - Web browser, including iOS & Android!
- Share with friends:
 - User authentication - keep out the undesirables!
 - Programmable timeout and session limits
 - Supports multiple client connections with a simultaneous mixture of connection modes
- Full control over the hardware remotely
- Ability to record IQ and audio files to a NAS for later processing.

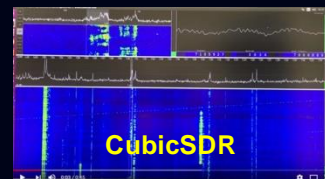


Software



Software

- SDRplay owns and develops our own SDR software, optimized for the RSP family:
 - SDRuno™ - Full-featured Windows software - Scanner & Scheduler
 - SDRconnect™ - Multi-platform, Windows, Mac, Linux, Raspberry Pi - Client / Server capability
- SDRplay also provides a multi-platform API specification enabling 3rd party software including: SDRConsole, HSDR, SDR++ and CubicSDR
- All the above software packages are available **free of charge!**
- Supports 3rd party software e.g, Loggers, Digital Decoders, Plugins and Modules



Multiple VFOs & different decode modes - simultaneously!

The screenshot displays the SDRplay software interface, which includes a main control panel and several floating windows for signal processing and decoding.

Main Control Panel (SDRplay MAIN):

- REC PANEL:** Shows recording settings, including a final frequency of 3000000 and a bandwidth of 1.536MHz (ZIF).
- RF Gain Reduction:** A slider control for adjusting the RF gain.
- SDRplay RX CONTROL:** A sub-panel for receiver control, showing a frequency of 14095.8 and a mode of AM.
- SDRplay RX CONTROL (RDSW):** A sub-panel for receiver control, showing a frequency of 14076.000 and a mode of AM.
- SDRplay RX CONTROL (RDSW):** A sub-panel for receiver control, showing a frequency of 14230.000 and a mode of AM.

WSJT-X - Copy1 v1.7.0 by K1JT:

This window displays a waterfall plot and a list of decoded signals. The list includes the following data:

UTC	dB	DT	Freq	Drift	Call	Grid	dBm	km
1504	-16	2.1	14.097075	0	W4KDN	FM07	20	631
1504	-12	0.6	14.097085	0	W4MO	EL86	33	1876
1504	-16	0.7	14.097096	0	W4MO	EL87	37	1767
1504	-9	2.9	14.097097	0	K5NCA	EM30	23	1846
1504	-24	0.6	14.097126	0	W4MO	EL87	37	1767
1504	-22	0.6	14.097150	0	W0IVJ	DM79	23	2164
1504	-17	0.7	14.097153	0	N5EN	EL29	20	2051

WSJT-X - Copy2 v1.7.0 by K1JT:

This window displays a list of decoded signals. The list includes the following data:

UTC	dB	DT	Freq	Message
1503	-17	0.5	1006	# K1GWN K5ETU RRR
1503	-15	0.5	822	# K3ODX AI6MQ -16
1504	-4	2.7	1168	# XE2SIV K5VOL R-09
1505	-1	0.9	403	# CQ DX N5T2H EM41
1505	-1	-2.2	715	# CQ RG5SHH EM02
1505	-12	0.5	1006	# K1GWN K5ETU 73
1505	-18	0.4	1164	# K5VOL XE2SIV -25
1505	-12	0.5	821	# K3ODX AI6MQ -16

RF power level + SNR measurement & logging



Scanning – scan a range of frequencies or your own preset frequencies

The screenshot displays the SDRplay software interface with several panels and callouts:

- Top Left Panel (SDRplay MAIN):** Shows settings for Final SR: 2000000, IPBW: 1.536MHz (LIF), Gain: 53.2dB, and a BIAS-T section. It includes buttons for OPT, SCANNER, REC PANEL, and SP1, SP2, RX.
- Top Middle Panel (SDRplay RX CONTROL):** Displays the current frequency 124300000 and various mode options (AM, SAM, FM, CW, DSB, LSB, USB, DIGITAL). It also includes VFO A and VFO B settings.
- Top Right Panel (SDRplay AUX SP):** Shows a spectrum plot with a span of 18.7 KHz, FFT 512 Pts, RBW 23.44 Hz, and Marks 500 H.
- Bottom Left Panel (SDRplay MEM. PANEL):** A list of memory banks with columns for Frequency, S, Mode, and Description. The list includes entries like air2.s1b, air3.s1b, Airband.s1b, airtest.s1b, AM BC.s1b, AMBC.s1b, AMbcOrlando.s1b, FirstScan.s1b, HamcationAM.s1b, HiZtest.s1b, Police.s1b, SB_E101.s1b, Test.s1b, test2.s1b, Testtest.s1b, WX.s1b, and WX2.s1b.
- Bottom Middle Panel (SDRplay MAIN SP):** The main frequency display showing 124300000 and LO: 124525000. It includes a spectrum plot with a span of 2000 KHz, FFT 8192 Pts, RBW 244.14 Hz, and Marks 20 KH.
- Bottom Right Panel (Scanner Config 0):** A dialog box for configuring a scanner. It includes fields for PRESET RANGES (AIRBAND (NA)), START FREQ (118000000 Hz), STOP FREQ (136975000 Hz), STEP FREQ (25000 Hz), HOLD TIME (5 Sec), THRESHOLD (-80 dBm), WAIT ON SIGNAL? (checked), SAVE TO MEM PANEL? (unchecked), DISPLAY THRESHOLD? (checked), and CONT. LOOP? (checked).

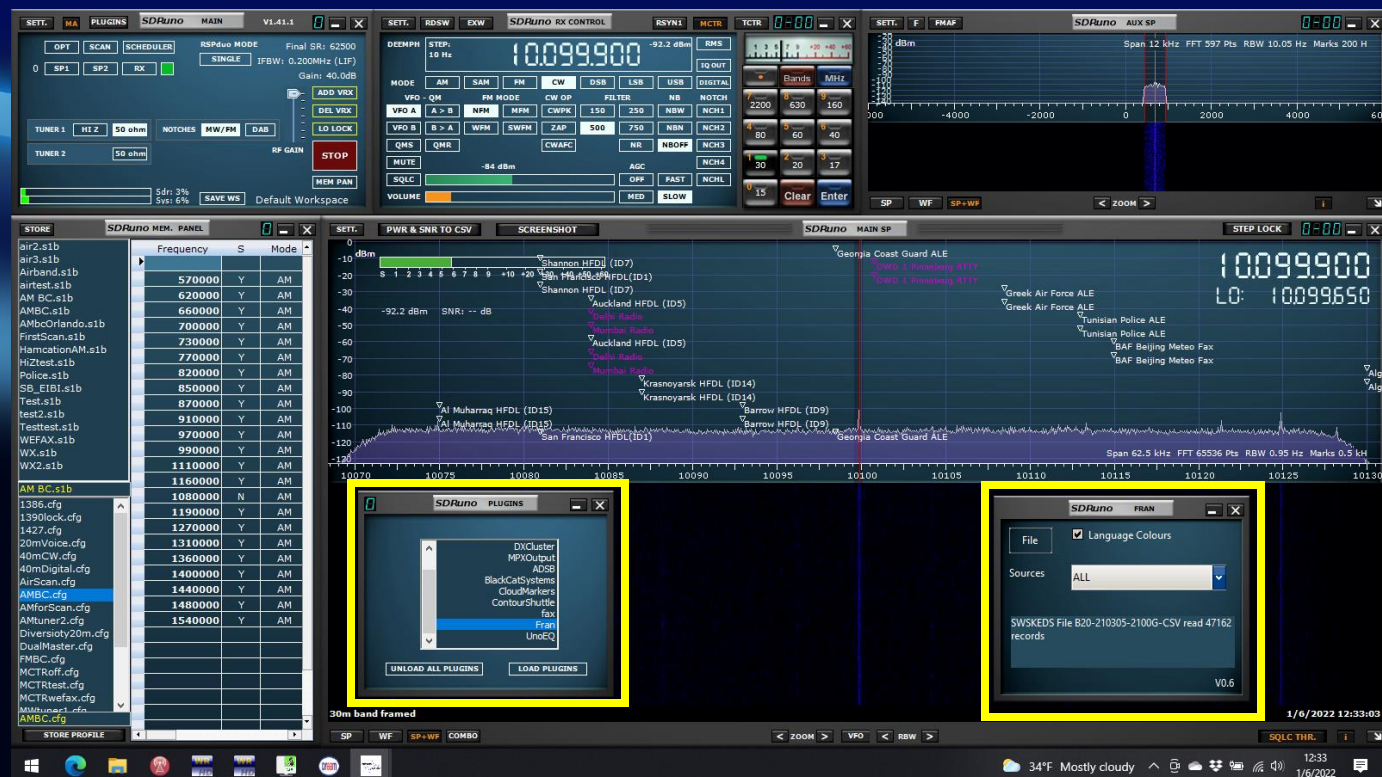
Callouts highlight specific features:

- Scan to or from Memory Banks:** Points to the MEM. PANEL.
- Lock out unwanted freqs:** Points to the 'S' column in the MEM. PANEL.
- Preset or user-defined scan ranges:** Points to the Scanner Config 0 dialog box.

The Windows taskbar at the bottom shows the date 3/26/2019 and time 10:47 AM.

Plugins

- Enhance receiver capabilities:
 - Annotation
 - Decoders
 - Controllers
 - 3rd party Interface
 - Recorders
- SDRplay or 3rd party development



Scheduler

The screenshot displays the SDRplay software interface with the Scheduler Event Editor window open. The main interface shows the SDRplay MAIN window with various controls for frequency, mode, and gain. The Scheduler Event Editor window is titled "Scheduler Event Editor" and contains the following fields:

- Event Time:** START 13:24:00, END 13:54:00, DURATION 00:30:00.
- Title:** TITLE Event 3.
- Event Start Date:** START 28 July 2021.
- Event Recurrence:** None, Hourly, Daily, Weekly, Monthly.
- Event End:** End By 28 July 2021, End After 1 occurrences, No End Date.
- Alerts:** Enable Alert, 5 Minutes before event for alert.
- FUNCTION:** Play.
- PROFILE:** None.
- VFO:** 7798000 Hz, ACTIVE VRX 0.

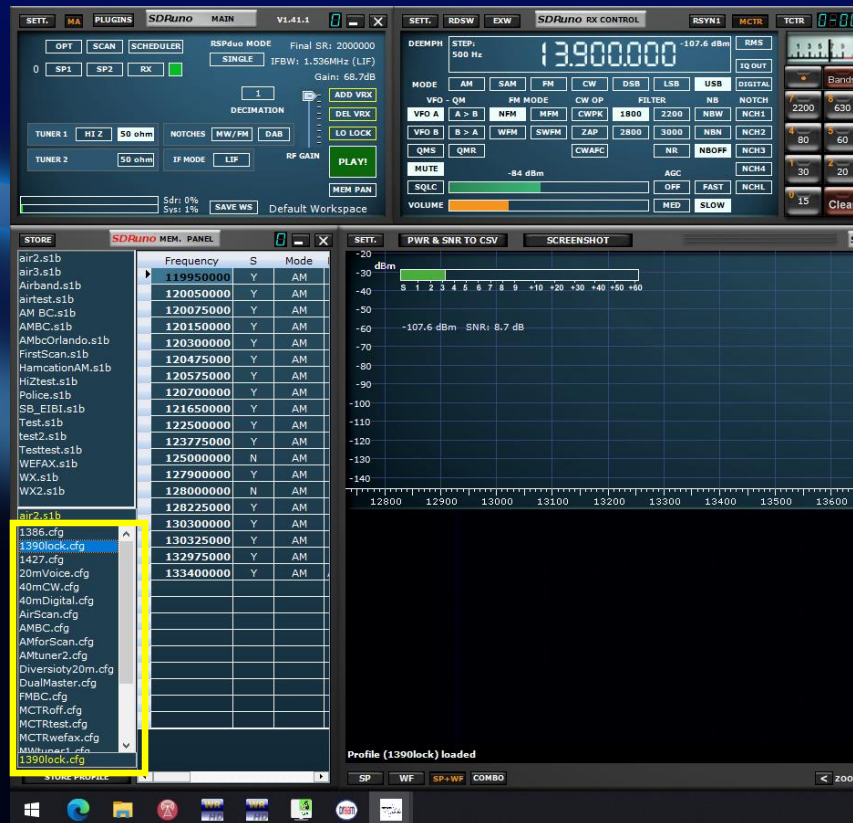
The SDRplay MAIN window shows the following settings:

- SETT. MA PLUGINS SDRplay MAIN V1.41 0727**
- OPT SCAN SCHEDULED**
- RSPdu MODE Final SR: 2000000**
- SINGLE IFBW: 1.536MHz (LIF) Gain: 62.8dB**
- DECIMATION 1**
- TUNER 1 HITZ 50 ohm**
- TUNER 2 50 ohm**
- PLAY!**
- SDRplay MEM. PANEL**
- Frequency S Mode**
- 119950000 Y AM**
- 120050000 Y AM**
- 120075000 Y AM**
- 120150000 Y AM**
- SCREENSHOT**
- 7/28/2021 1:19:15 PM**

The Scheduler Event Editor window is highlighted with a blue border, and a blue arrow points from the "Event Time" section to the "Alerts" section.

Profiles

- Ensure receiver is set up correctly for:
 - Scheduled events
 - Specific user scenarios
- Store a complete set of radio parameters including:
 - LO and VFO
 - Sample rate (SR and DEC)
 - Gain
 - Input selection
 - Notch filters
 - VRX settings
- Examples:
 - AM broadcast
 - HF CW or FT8
 - FM Broadcast

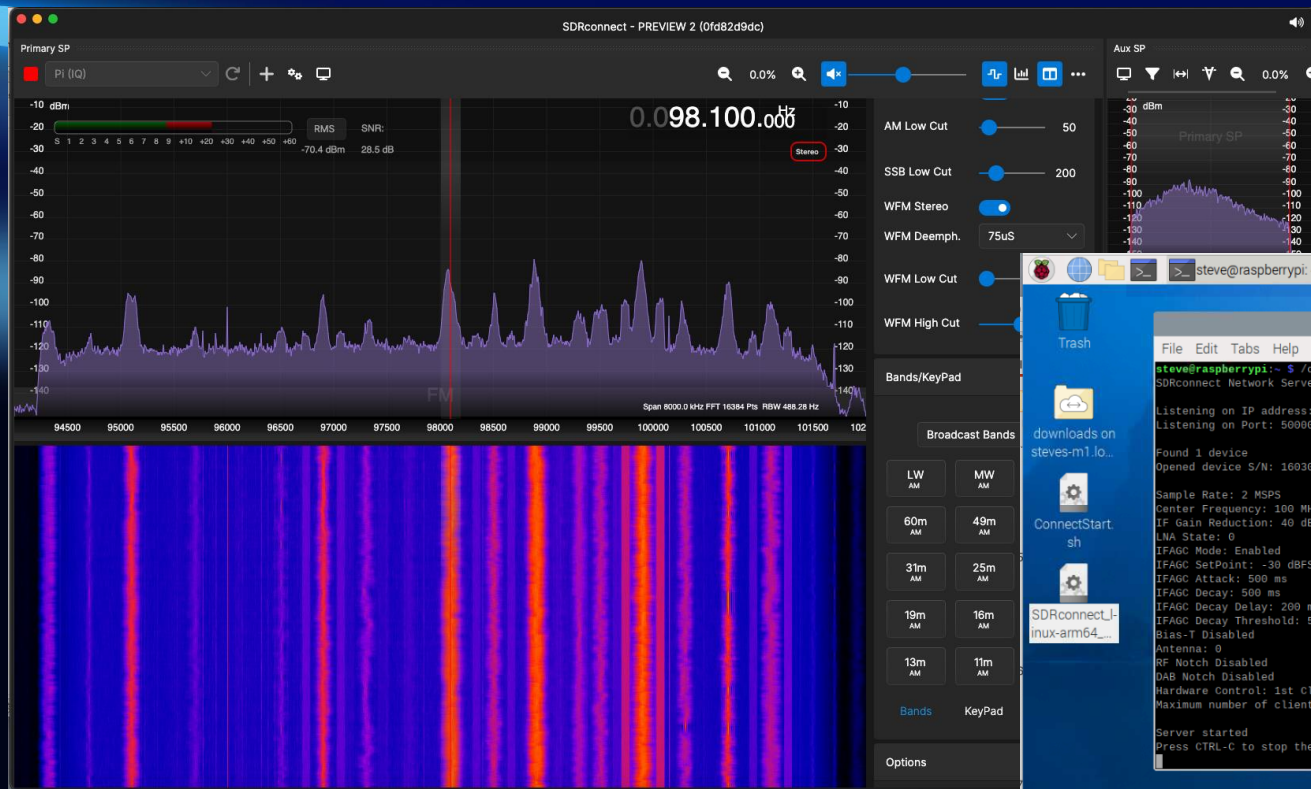


SDRconnect - Cross-Platform + Networking

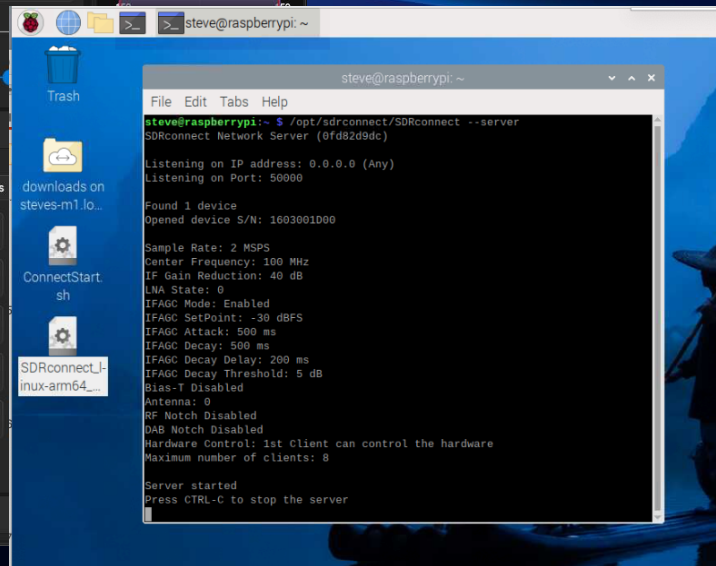
- Complete rewrite of SDRuno
 - Both SDRuno and SDRconnect can be installed on the same machine
 - SDRuno v1.42 will continue to be supported (bug fixes etc only)
- Cross Platform (64-bit: MacOS, Linux, Windows, Raspberry Pi)
- New Remote Server and Client (cross platform)
 - Access your RSP from anywhere – home LAN or across the internet!
- Complete GUI rewrite and update
 - More intuitive / easy to use interface
 - Ability to lock panels together
- Modular architecture
 - Easily add additional functionality
- Compatible with all current RSPs (RSP1A, RSP1B, RSPdx, RSPduo)
 - Compatible with RSP2 & RSP2pro discontinued products
 - Due to hardware limitations the RSP1 is not supported, but SDRuno 1.42 can still be used
- **Public Preview release available** (see <https://www.sdrplay.com/sdrconnect/> for updates)
 - *Additional features to be added when available*



SDRconnect - Example screenshot



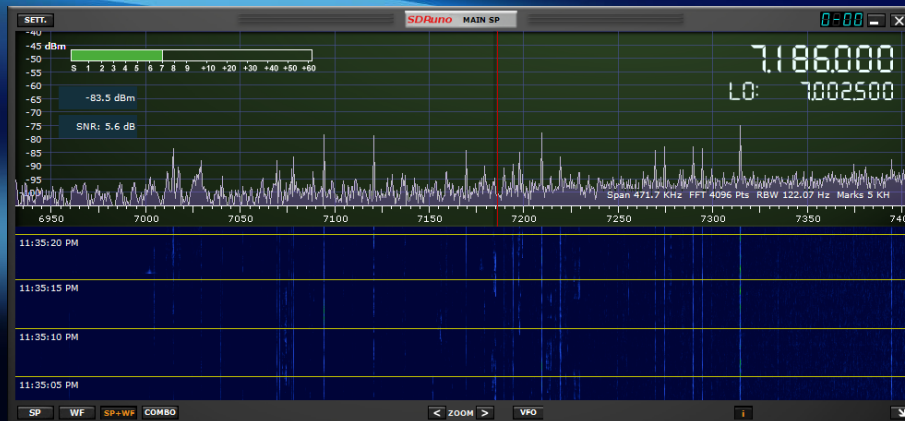
Mac Client connected to
Raspberry Pi Server



Panadapters



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 <http://mypanadapter.com/>

Why panadapter?

- Add new capabilities / visibility to any rig
- Synchronize the the rig to the software if it has a CAT port
- Work one frequency while monitoring the whole band
- Monitor multiple bands in addition to the one you're working
- Arbitrarily large spectrum scope
- Less cost, more features than factory add-ons,



Monitoring 3 bands with SDRuno



The perfect Panadapter companion for your rig

- Any of the SDR Software programs that support RSPs can be used to provide a basic spectrum display.
- SDRuno, HDSDR, SDR Console and CubicSDR have built-in capabilities for CAT and other add-on software, to allow for communication between the SDR software and the transceiver.
- OmniRig is commonly used for synchronization/control between the Tx and SDR Rx, but other control software, e.g. HRD, DXlab etc. can be incorporated using SDRuno's CAT capability
- ***App notes and videos available from sdrplay.com***

Use a T/R switch if not using protected transceiver IF or RF out!



- RSP protected by rig's internal T/R
- Splitter if required (e.g. Yaesu)
- RX BW limited by IF

- RSP protected by T/R
- T/R shares signal
- Widest RX bandwidth
- *Always connect PTT!*

- RSP protected by rig's internal T/R
- Direct connection (e.g. Kenwood TS-590SG)

Support and further information



SDRplay.com – Your gateway to information

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[!\[\]\(f9ccf36cb8f1dba8b11feb5692e99a8b_img.jpg\)](#) [!\[\]\(1d970b3e7cbfdacb236da6349ad0cf38_img.jpg\)](#) [!\[\]\(d19d18e4523bf4c3b871235e105e23a5_img.jpg\)](#) [!\[\]\(0a15f76348d00cca1082492b54c0efc3_img.jpg\)](#)

Welcome to SDRplay



Software Defined Radios

SDRplay “Misc” page – news, reviews, blogs, educators, developers, non-English & more



Misc

[Click Here](#)



Need Product Info?

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Want to purchase?

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Need Software for your RSP?

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Need Help?

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The New nRSP-ST

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YouTube Channel

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Software Downloads

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Multi-platform Software (SDRconnect Preview)

SDRconnect is SDRplay's new multi-platform SDR and server software for MacOS, Linux and Windows
[Click here to download](#)


Windows Software (SDRuno)

SDRuno is SDRplay's own full-featured SDR software for Windows
[Click here to download](#)






Start Here New User? We recommend you click here to follow the [StartHere flow](#)

Need other software?
For links to other software and software from 3rd parties, [click here](#)

Documentation and Video Catalog



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DOCUMENTATION & VIDEO CATALOGUE (PREVIOUSLY CALLED "APPLICATIONS AND SUPPORT CATALOGUE")

The SDRplay Documentation and Video Catalogue is your reference point for documentation, application Notes, how-to videos and much more. You can select by category and sub-category or choose to search "all categories". You can search by keyword and decide whether to include links to third party content. For more detailed information on each item, hover over the icon. Clicking will give access to the video or document.

Select Category to search on

RSP HardwareSDRplay Software3rd Party SoftwareOther HardwareMiscellaneous
























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SHORTWAVE STATIONS




SDRplay



Span 300 kHz FFT 32768 Pch RBW 63.04 Hz Mode 2 kHz

11380 11400 11420 11440 11460 11480 11500 11520 11540 11560 11580 11600 11620 11640 11660 11680 11700 11720 11740 11760 11780 11800 11820 11840 11860 11880 11900 11920 11940 11960 11980 12000 12020 12040 12060



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This channel is all about the Software Defined Radio Receiver from SDRplay - the 'RSP'. It in... >

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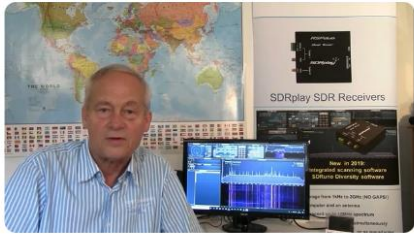
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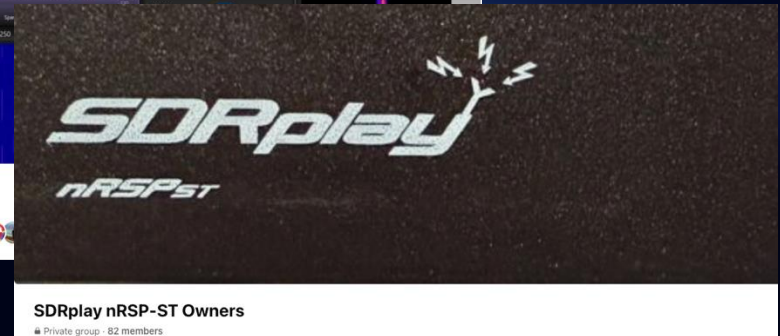
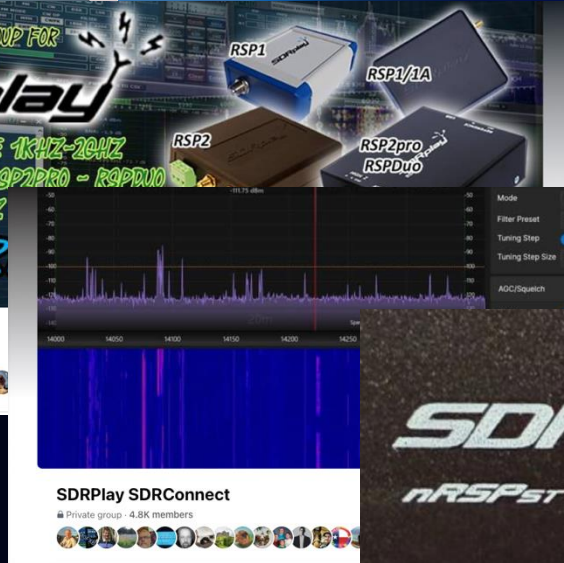
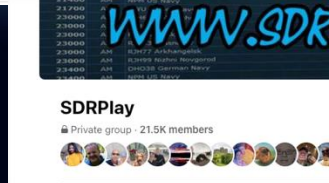
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More than 20,000 users
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Direct support from SDRplay

Welcome to Help

	Community Help Forums and groups		New User? Guided Installation Walk through
	Get answers to your technical questions		Help with SDRconnect & Bug reporting
	Documentation & Video Catalogue		Where's my order?
	Which RSP is for you? Product Family Information		Other Questions
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 - Check out the **Applications & Support Catalog** at:
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- Email: support-usa@sdrplay.com
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 - Independent groups run by enthusiastic users!
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*See our demo at
the HRO booth!*