SDRplay SDR Receivers

- Continuous SDR coverage from 1kHz to 2GHz (NO GAPS!) – just add a computer & antenna
- Receive, monitor and record up to 10MHz spectrum – visualise signals in multiple bands
- Use as a stand-alone general coverage RX, or as panadapter
- SDRuno Windows SDR software provided free-of-charge includes a fully integrated scanner
- New RSPdx is a major upgrade to the RSP2pro with multi antenna ports and enhanced HF performance and new features for demanding MF/LF/VLF conditions below 2MHz
- RSPduo has two tuners for widely-spaced multiband monitoring & mix and match applications
- RSPduo offers diversity tuning for signal enhancement & noise cancellation
- Downloadable SD Card image for use with Raspberry Pi3 & 4
- Backed by large and growing SDR receiver user community

Key specifications and highlights	RSP1A	RSPdx	RSPduo
Continuous coverage from 1kHz to 2GHz	✓	✓	✓
Up to 10MHz visible bandwidth	✓	✓	✓
14-bit ADC silicon technology plus multiple high-performance input filters	✓	✓	✓
Software selectable AM/FM & DAB broadcast band notch filters	✓	✓	✓
4.7V Bias-T for powering external remote antenna amplifier	✓	✓	✓
Powers over the USB cable with a simple type B socket	✓	✓	✓
50Ω SMA antenna input(s) for 1kHz to 2GHz operation (software	1	2	2
Additional software selectable Hi-Z input for up to 30MHz operation			✓
Additional software selectable 50Ω BNC input for up to 200MHz operation		✓	
Additional LF/VLF filter for below 500kHz		✓	
24MHz Reference clock input (+ output on RSPduo)		✓	✓
Dual tuners enabling reception on 2 totally independent 2MHz ranges			✓
Dual tuners enabling diversity reception using SDRuno			✓
Robust and strong plastic case (with internal RF shielding layer)	✓		
Rugged black painted steel case		✓	✓
Overall performance below 2MHz for MW and LF	Good	Best	Good
Multiple simultaneous applications	Good	Good	Best
Performance in challenging fading conditions (*using diversity tuning)	Good	Good	Best*

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Radio Spectrum Processors

The SDRplay RSP1A is a powerful wideband full featured 14-bit 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. Combined with the power of readily available SDR receiver software (including 'SDRuno' supplied by SDRplay) you can monitor up to 10MHz of spectrum at a time. A documented API allows developers to create new demodulators or applications around the platform.

RSP1A

Introducing the new RSPdx

The SDRplay RSPdx is a complete redesign of the popular RSP2pro multi-antenna receiver. Housed in a strong steel case, in addition to the functionality of the RSP1A, the RSPdx provides three software selectable antenna inputs and an external clock input. It offers substantially enhanced HF performance, using SDRuno's "HDR mode" optimised for the demanding radio reception conditions below 2MHz. An additional 500kHz low pass filter is also included for LF/VLF enthusiasts.

RSPduo

The SDRplay RSPduo is a complete dual-tuner SDR receiver. Like the other models, it's a wideband full featured 14-bit SDR which covers the RF spectrum from 1kHz to 2GHz giving 10MHz of spectrum visibility. Alternatively, it can simultaneously monitor two completely separate 2MHz bands of spectrum anywhere between 1kHz and 2GHz. With our SDRuno software, the RSPduo can provide diversity tuning which enables both signal enhancement and noise cancellation. The RSPduo also provides three software selectable antenna inputs, one of which is a high impedance input for direct connection to a long wire antenna

When used with SDRplay's own SDRuno software, the RSP becomes a high performance general coverage receiver or spectrum monitoring instrument for the lab. A stand-alone spectrum analyser software package is also available

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