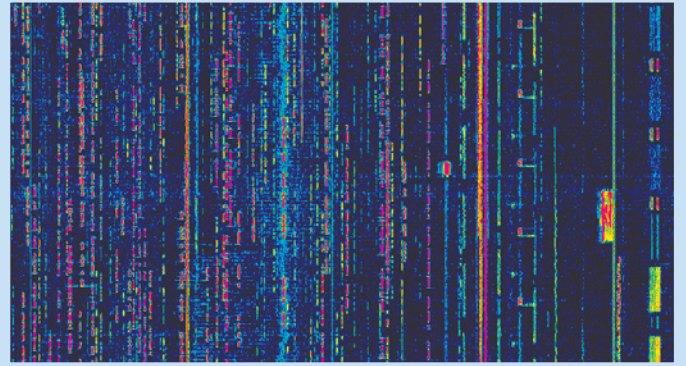


SDR-14

Software Defined Receiver & Spectrum Analyzer



Key Features

- Fully customizable in software
- Realtime spectrum display at extremely high resolution bandwidths
- Tuning resolution of 1 Hz
- Direct digitization of spectrum up to 230 MHz*
- HF antenna port with attenuators and preamp
- Realtime complex I/Q transfer to PC
- Realtime recording of 150 KHz of radio spectrum to harddrive
- Digital playback of spectrum with full tuning and demodulation capability
- Displays up to 30 MHz wide spectrum scans
- Accelerated video updates at over 30 times per second
- Multiple display formats
- ActiveX interface for VB and VC++
- Open source Linux driver
- Spectrum display unit for scanners with IF outputs in the HF bands
- Software supports Icom IC-R8500 and AOR AR5000 receivers
- Continuously variable demod filters

The new RFSPACE SDR-14 is an RF spectrum capture, display, and recording device designed for radio professionals and enthusiasts.

The SDR-14 delivers many features that are not available on any other software defined receiver and spectrum analyzer in it's price class. It utilizes the latest in hardware and software DSP technologies to provide unparalleled performance. In addition, it offers an open protocol that allows for custom application development.

The SDR-14 receiver can be used directly with the Icom IC-R8500, AOR AR-5000 and other radios as a spectrum display unit (SDU). Used as an SDU, the SDR-14 offers unprecedented speed and resolution. No SDU in its price class comes even close to the performance of the SDR-14.

All of the postprocessing of the SDR-14 data is performed on a personal computer. The raw spectrum data is routed digitally to the computer without the use of soundcard interfaces that can substantially degrade performance.

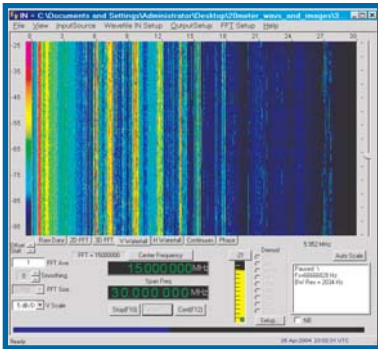
The combination of the SDR-14 and SpectraVue software provides a great deal of functionality. The software allows the display of spectrum scans up to 30 MHz wide. It is ideal for use in radio, radio astronomy, government and educational facilities.

For those wishing to write their own software, an ActiveX control with source code is supplied. This control can be dropped directly into VB and VC++ applications. Linux drivers are also provided, allowing for a complete open source solution.

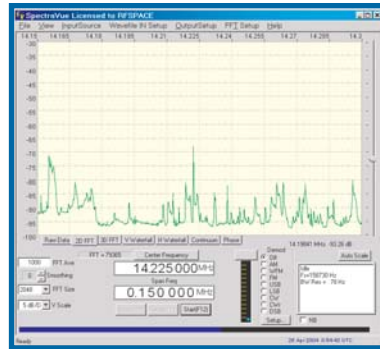
Network client and server applications allow the SDR-14 to be used over TCP/IP connections. Both Windows and Linux versions of the server software are available.



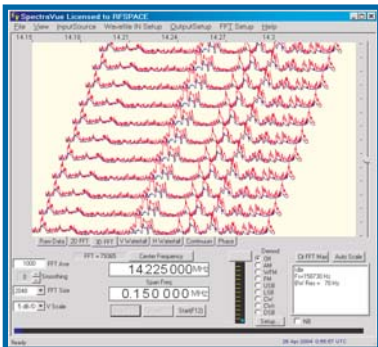
Realtime captures



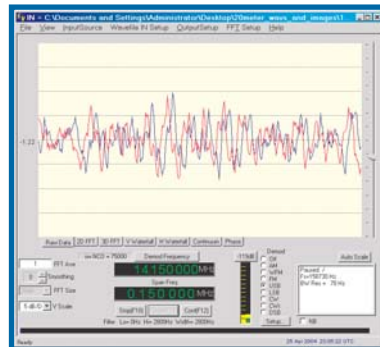
Waterfall Display



2D Spectral Display



3D Spectral Display



Time Domain I/Q Display

Specifications

INTERFACE
USB (v 1.1 or 2.0)

RF
1 direct input port (50 KHz-230 MHz)*
1 HF input port (50 KHz-30 MHz)
50 Ohm impedance (1.5:1 VSWR Max)
MDS -136 dBm (Typ) 500 Hz BW (ATTN=0dB)
SFDR 95 dB (Typ)

SAMPLING RATE
66.666 MHz

DEMODULATION (Software Defined)
USB, LSB, FM-N, FM-W, CW, CW-R, AM, DSB
DRM Ready using 12 KHz IF Mode **

EXPORT
Data in CSV formats
Plot in BMP and RAW format
Complex and real spectrum in WAV format
Realtime I/Q samples (150 KHz wide)

CAPTURE MEMORY
512K x 16 bit

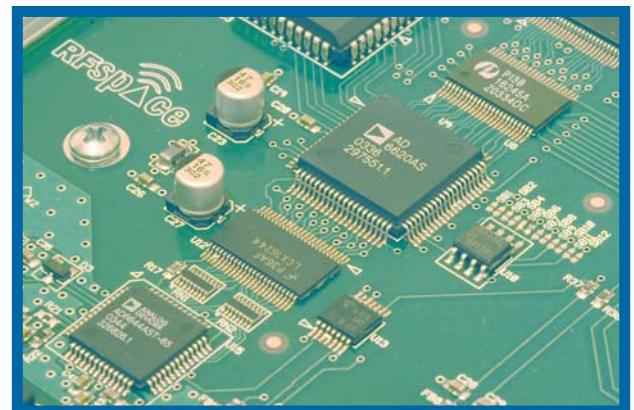
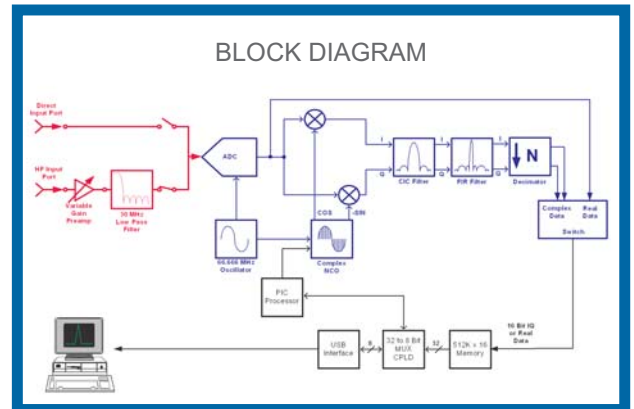
FFT Size
2048 - 262144 point

* Requires anti-alias filter and preamplifier
** Requires 2 soundcards and DREAM or DRM decoding software

System requirements

Minimum
Pentium III at 800 MHz, Pentium 4 or Athlon XP 1600+
Windows 98, 2000, ME, XP
256 MB of RAM
AGP Video card with 32 MB of RAM
16 Bit SB compatible sound card and speakers
USB 1.1 or 2.0 port
CD-ROM drive for software installation

Recommended
Pentium 4 at 2.2 GHz, Athlon XP 2000+
Windows 2000, XP
512 MB of RAM
AGP 4x Video card with 64 MB of RAM
16 Bit SB compatible sound card and speakers
USB 1.1 or 2.0 port
CD-ROM drive for software installation



Available at **Universal Radio** | www.universal-radio.com 

RFSPACE
www.rfspace.com
e-mail: info@rfspace.com

