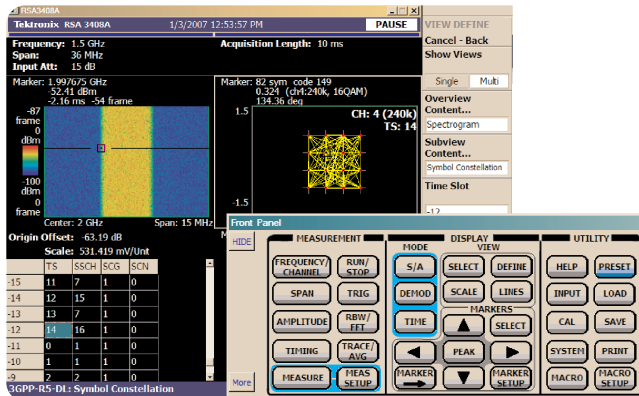


RSAVu Offline Analysis Software for RSA6000 and RSA3000 Series



Overview

RSAVu software enables offline analysis of data captured from Tektronix Real-Time Spectrum Analyzers (RTSA) using a personal PC. The software offers users the same demodulation and analysis capabilities included in the RSA3408A software option suite. From 3G wireless standards to the latest RFID formats, RSAVu is a tool designers can use to analyze signals without having RTSA hardware connected. The software supports data files saved on the RSA6106A, RSA6114A, RSA3408A, RSA3308A and RSA3303A Real-Time Spectrum Analyzers.

The software also supports a remote interface for performing data analysis in automated test environments. Users can programmatically load RSA data files and extract demodulated parameters using their test software to minimize time required for performance and stress testing.

Features & Benefits

Programmatic Interface

- Integrate with test executive for automated compliance and stress testing
- Access measurement results via GPIB/LAN
- Batch process data files without being connected to acquisition hardware

Offline Signal Analysis

- Analyze Frequency, amplitude, and modulation over time
- 3G Measurement Versatility with W-CDMA, cdma2000, 1x EVDO, HSUPA, HSDPA, RF and Modulation Analysis
- General Purpose Digital Modulation Analysis
- 802.11a/b/g/n Measurement Suite
- Multi-domain Analysis Enables Fast, Complete Signal Analysis in Frequency, Time, Code, and Modulation Domains
- Codogram Provides a Simple, Graphical Means of Analyzing Individual Code Powers versus Time.
- Gain Ratio Provide a Simple, Graphical Means of Analyzing Beta Ratio in Uplink (Requires Opts. 27, 23 and 40)
- W-CDMA Compressed Mode Enables Analysis of Handovers Between W-CDMA and GSM
- Key Signaling Analysis Over Air Interface Enables Checking Interaction between Base station and UE
- ACK/NACK and CQI Analysis for HSDPA Uplink (Requires Opts. 27 and 23)
- DPCCH, HS-DPCCH, E-DPCCH Signaling Analysis for HSUPA Uplink (Requires Opts. 27, 23 and 40)
- E-RGCH, E-HICH and E-AGCH Signaling Analysis for Release 6 Downlink (Requires Opts. 27, 23 and 40)
- Simple Capture and Analysis on RFID Interrogator and Response Signals
- Signal Source Analysis Simplifies Phase Noise, Jitter, and Frequency Settling Measurements
- Easy Configuration and Analysis of IEEE 802.15.4 (Zigbee) Measurements
- C4FM modulation analysis for Project 25 Compliance Measurements¹

¹Available on RSA3000 series only

Applications

- W-CDMA
- HSUPA
- HSDPA
- GSM/EDGE
- CDMA2000 1x
- CDMA2000 1xEV-DO
- RFID
- Phase Noise
- Jitter
- IEEE 802.11 a/b/g/n WLAN
- IEEE 802.15.4 OQPSK (Zigbee)
- P25 (C4FM signal analysis)
- Digital Modulation Analysis

RSAVu Offline Analysis Software for RSA6000 and RSA3000 Series

► Application Fact Sheet

Ordering Information

RSAVu

Offline analysis software for RSA series spectrum analyzers. Basic RSAVu is free of charge on the Tektronix web site (www.tektronix.com) and is capable of performing a variety of time and frequency, as well as, I/Q time measurements on saved data files. The basic version also includes analog demodulation for AM, FM and PM modulated signals.

For an additional fee, options may be ordered which provide digital demodulation for a variety of wireless standards.

Options

- Opt. 21** - Offline Modulation Analysis – Advanced Measurement Suite Software
- Opt. 23** - Offline Modulation Analysis – W-CDMA Uplink Analysis
- Opt. 24** - Offline Modulation Analysis – GSM/EDGE
- Opt. 25** - Offline Modulation Analysis – CDMA2000/1X
- Opt. 26** - Offline Modulation Analysis – 1x EVDO
- Opt. 27** - Offline Modulation Analysis – HSDPA 3GPP Release 5
- Opt. 29** - Offline Modulation Analysis – IEEE 802.11a/b/g/n
- Opt. 40** - Offline Modulation Analysis – HSUPA 3GPP Release 6

RSAVuUP

Upgrade for offline analysis software. At least one of the following options must be ordered when upgrading a previously purchased hardware key.

Upgrade Options

- Opt. 21** - Reprograms USB HW Key to add option 21 – Advanced Measurement Suite Software
- Opt. 23** - Reprograms USB HW Key to add option 23 – W-CDMA Uplink Analysis
- Opt. 24** - Reprograms USB HW Key to add option 24 – GSM/EDGE
- Opt. 25** - Reprograms USB HW Key to add option 25 – CDMA2000/1X
- Opt. 26** - Reprograms USB HW Key to add option 26 – 1x EVDO
- Opt. 27** - Reprograms USB HW Key to add option 27 – HSDPA 3GPP Release 5
- Opt. 29** - Reprograms USB HW Key to add option 29 – IEEE 802.11a/b/g/n
- Opt. 40** - Reprograms USB HW Key to add option 40 – HSUPA 3GPP Release 6

Recommended PC Configuration

Pentium-compatible processor - >2.4GHz, and >500 MB RAM

Microsoft Windows XP

100 MB free hard-disk space

Available USB port – used for hardware license key

Contact Tektronix:

ASEAN / Australasia	(65) 6356 3900
Austria	+41 52 675 3777
Balkan, Israel, South Africa and other ISE Countries	+41 52 675 3777
Belgium	07 81 60166
Brazil & South America	(11) 40669400
Canada	1 (800) 661-5625
Central East Europe, Ukraine and the Baltics	+41 52 675 3777
Central Europe & Greece	+41 52 675 3777
Denmark	+45 80 88 1401
Finland	+41 52 675 3777
France	+33 (0) 1 69 86 81 81
Germany	+49 (221) 94 77 400
Hong Kong	(852) 2585-6688
India	(91) 80-22275577
Italy	+39 (02) 25086 1
Japan	81 (3) 6714-3010
Luxembourg	+44 (0) 1344 392400
Mexico, Central America & Caribbean	52 (55) 5424700
Middle East, Asia and North Africa	+41 52 675 3777
The Netherlands	090 02 021797
Norway	800 160988
People's Republic of China	86 (10) 6235 1230
Poland	+41 52 675 3777
Portugal	80 08 12370
Republic of Korea	82 (2) 528-5299
Russia & CIS	+7 (495) 7484900
South Africa	+27 11 254 8360
Spain	(+34) 901 988 054
Sweden	020 08 80371
Switzerland	+41 52 675 3777
Taiwan	886 (2) 2722-9622
United Kingdom & Eire	+44 (0) 1344 392400
USA	1 (800) 426-2200

For other areas contact Tektronix, Inc. at: 1 (503) 627-7111

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Our most up-to-date product information is available at: www.tektronix.com



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2/07 FLG/WOW

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