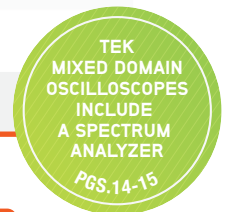


SPECTRUM ANALYZERS

Choosing your Wireless/RF Test Solution

See an RF world that others can't with affordable real-time performance. This guide gives an overview of the signal analysis capabilities required to overcome the most challenging wireless and RF design challenges. Spend your time fixing the problem, not looking for it. If you need a refresher on Real-Time Spectrum Analysis, download the [Fundamentals of Real-Time Spectrum Analysis Primer](#).

	RSA306B USB SPECTRUM ANALYZER	RSA500A USB SPECTRUM ANALYZER	RSA600A USB SPECTRUM ANALYZER	RSA5100B REAL TIME SPECTRUM ANALYZER	RSA7100A REAL TIME SPECTRUM ANALYZER
Applications	Portable for field and lab use	Field analysis, interference hunting, network management	Lab use, including EMI and wireless design validation	High performance, advanced signal analysis	Very high performance, advanced signal analysis, record and playback
Power Source	USB 3.0	Battery or Line	Line	Line	Line
Max Frequency Range	9 kHz - 6.2 GHz	9 kHz - 7.5 GHz	9 kHz - 7.5 GHz	1 Hz - 26.5 GHz	16 kHz - 26.5 GHz
Max Acquisition Bandwidth (Real Time)	40 MHz	40 MHz	40 MHz	Options to 165 MHz	Option to 800 MHz
Noise Floor (DANL at 1GHz, Preamp On, dBm/Hz)	-163	-164	-164	-167	-164
Tracking Generator		Option	Option	-	-
Full-feature Spectrum Analysis with Real Time	Yes	Yes	Yes	Yes	Yes
Modulation, Pulse, Wireless Standards Analysis	Option	Option	Option	Option	Option
Reference Frequency Accuracy, ppm	± 3	± 1, 0.003 with GPS lock	± 1, 0.003 with GPS lock	± 1 ± 0.1 Opt PFR	±0.05



CHOOSING YOUR REAL-TIME SPECTRUM ANALYZER

Key items for consideration when choosing your Spectrum Analyzer.

1 Frequency Range

Of course, the analyzer chosen must cover all of the frequencies you need to measure. Consider harmonics and spurious signals when making your selection. For example, your fundamental signal may be at 2.4 GHz, but perhaps you will want to see up to 10 harmonics of the signal to meet all the needs of your design.

2 Acquisition/Real-Time Bandwidth

In a real-time spectrum analyzer, this sets the maximum bandwidth for guaranteed capture and triggering on brief signals, and is also the limiting factor in modulation measurements. For example, 802.11n signals require a minimum acquisition bandwidth of 40 MHz so that all signal elements can be acquired and demodulated. However, the entire operating frequency of your signal of interest may need to be considered. Also, wide band radar and electronic warfare signals often require as much bandwidth as possible to completely capture the full bandwidth of a signal, so it is very useful to use an analyzer with the maximum available real-time analysis bandwidth available, at 800 MHz.

3 Dynamic Range

This can be a complex subject. Your definition of dynamic range may be highly specific. Consideration of Adjacent Channel Power Ratio dynamic range, spurious-free dynamic range in a particular frequency range, or harmonic distortion specifications may or may not be important to your application. For example, the RSA5100B has the best Spurious Free Dynamic Range of any wide band analyzer on the market, while the RSA306B has a much smaller form factor and is great for making quick measurements. So the RSA5100B may be more suitable for characterizing things like power amplifiers or radar systems.

4 Features and Capabilities

All of our real-time spectrum analyzers can run the same feature set and capabilities with SignalVu-PC, from our USB Spectrum Analyzers to the RSA7100A as well as the MDO4000C. Optional features include preamplifiers, acquisition bandwidth options, and analysis options that include WLAN, Bluetooth, P25 and general purpose digital modulation measurements.

USB SPECTRUM ANALYZERS

Big Performance Has Never Been So Small.

The RSA Series **offers full-featured spectrum analysis** and deep signal analysis at a price unmatched by any previous offering.

Using the **latest in commercial interfaces** and available computing power, the RSA Series separates signal acquisition from measurement, dramatically lowering the cost of instrument hardware. Data analysis, storage and replay is performed on your **personal computer, tablet or laptop**.

Managing the PC separately from the acquisition hardware makes processing upgrades easy, and helps to make the RSA Series an **extremely portable** spectrum analyzer family **for many different applications**.



KEY FEATURES

1 40MHz Capture Bandwidth

Make complex modulation measurements on wideband standards – 802.11 a/b/d/g/n, Bluetooth, and more.

2 Built-in Tracking

Generator Measure VSWR/Return Loss and distance to fault for component and antenna characterization. (RSA500 and RSA600 Series only)

3 Real-time Analysis

Included DPX Spectrum/Spectrogram measurements minimize time spent on transient discovery and interference hunting. Get immediate insight into your toughest problems.

4 SignalVu-PC Software

Full-featured spectrum analysis software is included free with 17 built-in measurements including spectrum, spur search, spectral emissions, and DPX.

5 Optional Advanced Analysis

Software modules that support modulation analysis, popular wireless standards, pulse, playback of recorded files, mapping, signal classification and more are available for SignalVu-PC software.

6 Portable and Lightweight

With units ranging from 1.7 to 6.6 lbs., the RSA Series is easy to move, when and where you need to go.

RSA306B

Full-featured RF Analysis in Your Hands at a Breakthrough Price

- 9 kHz to 6.2 GHz
- Design, spectrum management/interference hunting, EMC troubleshooting, education

RSA503A and RSA507A

Fast, Light, and All-in-one Field Tool for Spectrum Analysis

- 9 kHz to 3 GHz or 7.5 GHz
- Rugged chassis and battery operated
- Spectrum management/interference hunting, network installation and maintenance, field service

RSA603A and RSA607A

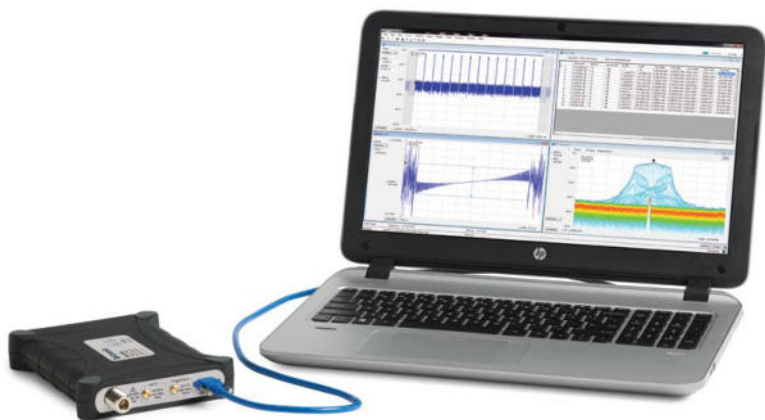
The Essential Tool for Wireless Analysis and Testing

- 9 kHz to 3 GHz or 7.5 GHz
- Design, EMC Pre-compliance

RSA7100A

Imagine New Solutions for Wideband Designs and Systems

- Frequency Range: 16 kHz- 14/26.5 GHz
- Phase Noise at 10 kHz offset
-134 dBc/Hz at 1 GHz (typical)
-128 dBc/Hz at 10 GHz (typical)
- 800 MHz Real Time bandwidth, recording, and playback







DATA SHEET

PRODUCT HIGHLIGHTS

- Frequency Range: 9 kHz to 6.2 GHz
- Acquisition Bandwidth: 40 MHz
- Full featured spectrum analysis capability with Tektronix SignalVu PC (TM) software
- 17 spectrum and signal analysis measurements standard
- Over 15 options for mapping, modulation analysis, standards support, pulse, playback of recorded files, and more
- Very small form factor, power consumption less than 4.5 Watts
- Weight: 1.7 pounds (0.75 kg)

APPLICATIONS

	R&D
	Interference Hunting
	Field Installation and Maintenance
	Education

RSA306B USB Spectrum Analyzer

RF signal analysis in your hands!

From basic RF measurements to advanced analysis, the RSA306B offers the full features of a benchtop spectrum analyzer at a fraction of the price. With 17 automated measurements included for free, you can make common measurements - fast and easy. Additional software options enable you to tackle advanced analysis tasks, including modulation analysis, pulse measurements, mapping and more. At just 1.7 pounds, the RSA306B takes little space on your bench, and fits easily in your hand, bag, pocket or tool belt.

MODEL	DESCRIPTION	FREQUENCY RANGE	CAPTURE BANDWIDTH	SPURIOUS FREE DYNAMIC RANGE	MINIMUM SIGNAL DURATION FOR 100% PROBABILITY OF INTERCEPT
RSA306B	Portable real time USB spectrum analyzer	9 kHz - 6.2 GHz	40 MHz	-60 dBc to 3 GHz	100 μs

RECOMMENDED ACCESSORIES

OPT CTRL-G1-x	Portable controller, availability varies by region
DFA0047	Smart Directional Antenna, 20-8500 MHz, with electronic compass and preamp
DF-A0047-01	Frequency range extension for DF-A0047 directional antenna, 9 kHz-20 MHz, requires DF-A0047
RSA306-BRACK	Rack mount, holds 2 RSA306B, room for 2 Mini-PC's

SIGNALVU-PC / DATAVU-PC LICENSES*

SV23xx-SVPC	WLAN 802.11a/b/g/j/p Measurement Software
SV24xx-SVPC	WLAN 802.11n Measurement Software
SV25xx-SVPC	WLAN 802.11ac Measurement Software
SV27xx-SVPC	Bluetooth Basic LE TX SIG measurements

SIGNALVU-PC / DATAVU-PC LICENSES*

SV28xx-SVPC	LTE downlink (eNB) RF measurements
SV54xx-SVPC	Signal Classification/Survey
SV56xx-SVPC	Playback of recorded signal files
SVAXx-SVPC	AM/FM/PM Direct Audio Measurements
SVMxx-SVPC	General Purpose Modulation Analysis, including demodulation for Zigbee and Bluetooth Enhanced Data Rate
SVpxx-SVPC	Pulse Measurement Software
SVTx-x-SVPC	Settling Time (Frequency and Phase)
MAPxx-SVPC	Mapping Software
DVPC-SPAN50NL	DataVu-PC Software for 50 MHz BW playback files

Recommended SignalVu-PC or DataVu-PC application licenses (Floating and node-locked licenses available). Other applications available, see SignalVu-PC or DataVu-PC data sheet for details.

RECOMMENDED SERVICE

R5	5-year Extended Warranty
----	--------------------------

AVAILABLE DOWNLOADS

- SignalVu-PC base software
- LabVIEW drivers
- Applications programming interface
- Fully documented programmers manual (Example source code for getting started)

SHIPS WITH PRODUCT

- USB 3.0 cable (1 M)
- USB stick with SignalVu-PC and all documentation
- Three-year Warranty



DATA SHEET

PRODUCT HIGHLIGHTS

- Frequency range: 9 kHz-3.0/7.5 GHz
- Acquisition bandwidth: 40 MHz
- Spurious-free dynamic range: 70 dB
- Full featured spectrum analysis capability with Tektronix SignalVu-PC software
- 17 spectrum and signal analysis measurements standard
- Over 15 options for modulation analysis, standards support, pulse, playback of recorded files, mapping, signal classification and more
- Tracking generator with gain/loss, cable loss, distance to fault, VSWR options available
- Ruggedized Mil-Std PRF-28800F Class 2
- Weight: ~6.6 pounds (3 kg)
- Standard integrated GPS receiver for mapping measurements, lock to local oscillator
- Standard Preamplifier

RSA500A Series

The RSA500A series offers rugged, portable real time spectrum analysis for interference hunting, spectrum management and network maintenance tasks. Combined with an available tablet and SignalVu-PC software, the RSA500A series solves your toughest interference challenges. When equipped with the optional Tracking Generator with internal VSWR bridge, and Cable and Antenna testing software, the RSA500A becomes an indispensable field tool. Mapping, signal strength, signal recording and playback and many other options are available to tailor the RSA500A to your requirements.



Find weak and transient interferers, even co-channel interference using the RSA500A with standard real time spectrum analysis.



Mapping with SignalVu-PC.

MODEL	DESCRIPTION	FREQUENCY RANGE	CAPTURE BANDWIDTH	SPURIOUS FREE DYNAMIC RANGE	MINIMUM SIGNAL DURATION FOR 100% PROBABILITY OF INTERCEPT
RSA503A	Portable real time USB spectrum analyzer	9 kHz - 3.0 GHz	40 MHz	-70 dBc	100 μ s
RSA507A	Portable real time USB spectrum analyzer	9 kHz - 7.5 GHz	40 MHz	-70 dBc	100 μ s

SIGNALVU-PC / DATAVU-PC LICENSES*

SV26xx-SVPC	APCO P25 phase 1 and 2 measurements
SV28xx-SVPC	LTE downlink (eNB) RF measurements
SV54xx-SVPC	Signal Classification/Survey
SV56xx-SVPC	Signal Playback: Enables playback and re-analysis of recorded R3F files
SV60xx-SVPC	VSWR, Return Loss, Distance to Fault, Cable Attenuation Measurements. Requires tracking generator on spectrum analyzer
SVAXxx-SVPC	AM/FM/PM Direct Audio Measurements
SVMxx-SVPC	General Purpose Modulation Analysis, including demodulation for Zigbee and Bluetooth Enhanced Data Rate
SVPx-xx-SVPC	Pulse Measurement Software
SVTx-xx-SVPC	Settling Time (Frequency and Phase)
MAPxx-SVPC	Mapping Software
DVPC-SPAN50NL	DataVu-PC Software for 50 MHz BW playback files

Recommended SignalVu-PC or DataVu-PC application licenses (Floating and node-locked licenses available). Other applications available, see SignalVu-PC or DataVu-PC data sheet for details.

RECOMMENDED ACCESSORIES

DF-A0047	Smart Directional Antenna, 20-8500 MHz, with electronic compass and preamp
DF-A0047-01	Frequency range extension for DF-A0047 directional antenna, 9 kHz-20 MHz, requires DF-A0047
RSA5600 RACK	Rackmount (holds 1 RSA500), Various Calibration Kits, Cables, Adapters
FZ-G1-x	Panasonic Touchpad Instrument Controller
Various Calibration Kits for Cable and Antenna Measurements	

INSTRUMENT OPTIONS

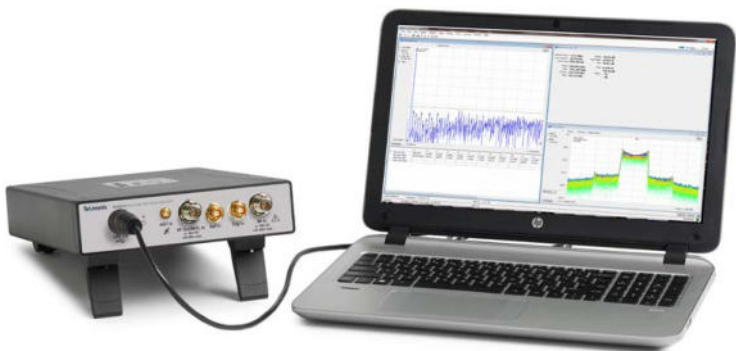
OPT 04	Tracking Generator: 10 MHz – to maximum range of instrument
OPT CTRL-G1-x	Portable controller, availability varies by region. Also available as separate item.

SHIPS WITH PRODUCT

- Battery pack and charger
- Carrying case
- Ruggedized USB 3.0 cable
- USB stick with SignalVu-PC software and all documentation

RECOMMENDED SERVICE

C3	Calibration Service 3 Years
C5	Calibration Service 5 Years
R5	Standard Warranty Extended to 5 years
D1	Calibration Data Report
D3	Calibration Data Report, 3 years (with option C3)
D5	Calibration Data Report, 5 years (with option C5)
G3	Three Year Gold Care
G5	Five Year Gold Care



DATA SHEET

PRODUCT HIGHLIGHTS

- Frequency range: 9 kHz-3.0/7.5 GHz
- Acquisition bandwidth: 40 MHz
- Spurious-free dynamic range: 70 dB
- Full featured spectrum analysis capability with Tektronix SignalVu-PC software
- 17 spectrum and signal analysis measurements standard
- Over 15 options for mapping, modulation analysis, standards support, pulse, playback of recorded files, and more
- Tracking generator with gain/loss, cable loss, distance to fault, VSWR options available
- Small laboratory form factor, power consumption less than 45 W
- Weight: ~6.6 pounds (3 kg)

RSA600A Series

The RSA600A series offers mid-range laboratory spectrum analysis at a remarkable price. Forty megahertz of standard analysis bandwidth enables analysis of the latest communications standards up to 802.11n, and real-time spectrum analysis reduces troubleshooting time by finding transient problems that other spectrum analyzers may miss. An available tracking generator with options for VSWR/Return loss and distance to fault enables component and antenna characterization. The RSA600A runs with SignalVu-PC or an application programming interface for automated measurements.



Wideband modulation analysis.



Smaller than conventional spectrum analyzers.

MODEL	DESCRIPTION	FREQUENCY RANGE	CAPTURE BANDWIDTH	SPURIOUS FREE DYNAMIC RANGE	MINIMUM SIGNAL DURATION FOR 100% PROBABILITY OF INTERCEPT
RSA603A	Laboratory real time USB spectrum analyzer	9 kHz - 3.0 GHz	40 MHz	-70 dBc	100 μs
RSA607A	Laboratory real time USB spectrum analyzer	9 kHz - 7.5 GHz	40 MHz	-70 dBc	100 μs

SIGNALVU-PC / DATAVU-PC LICENSES*

SV23xx-SVPC	WLAN 802.11a/b/g/j/p Measurement Software
SV24xx-SVPC	WLAN 802.11n Measurement Software
SV25xx-SVPC	WLAN 802.11ac Measurement Software
SV26xx-SVPC	APCO P25 phase 1 and 2 measurements
SV27xx-SVPC	Bluetooth Basic LE TX SIG measurements
SV28xx-SVPC	LTE downlink (eNB) RF measurements
SV54xx-SVPC	Signal Classification/Survey
SV56xx-SVPC	Playback of recorded signal files
SV60xx-SVPC	VSWR, Return Loss, Distance to Fault, Cable Attenuation Measurements. Requires tracking generator on your spectrum analyzer
SVAXxx-SVPC	AM/FM/PM Direct Audio Measurements
SVMXxx-SVPC	General Purpose Modulation Analysis, including demodulation for Zigbee and Bluetooth Enhanced Data Rate

SIGNALVU-PC / DATAVU-PC LICENSES*

SVPxx-SVPC	Pulse Measurement Software
SVTxx-SVPC	Settling Time (Frequency and Phase)
DVPC-SPAN50NL	DataVu-PC Software for 50 MHz BW playback files

Recommended SignalVu-PC or DataVu-PC application licenses (Floating and node-locked licenses available). Other applications available, see SignalVu-PC or DataVu-PC data sheet for details.

RECOMMENDED ACCESSORIES

RSA5600 RACK	Rackmount (holds 2 RSA600), Various Calibration Kits, Cables, Adapters
	Multiple Calibration Kits for Cable/Antenna measurements

INSTRUMENT OPTIONS

OPT 04	Tracking Generator: 10 MHz – to maximum range of instrument
--------	---

SHIPS WITH PRODUCT

AC power cord, USB 3.0 cable, SignalVu-PC software and all documentation on USB stick

RECOMMENDED SERVICE

C3	Calibration Service 3 years
C5	Calibration Service 5 years
R5	Standard Warranty extended to 5 years
D1	Calibration Data Report
D3	Calibration Data Report, 3 years (with option C3)
D5	Calibration Data Report, 5 years (with option C5)
G3	Three Year Gold Care
G5	Five Year Gold Care

AVAILABLE DOWNLOADS

- SignalVu-PC base software
- LabVIEW drivers
- Applications programming interface
- Fully documented programmers manual (Example source code for getting started)



DATA SHEET

PRODUCT HIGHLIGHTS

- Discover the most difficult to find signal behavior with DPX® Live RF spectrum display
- Save time by isolating signal anomalies on which other instruments can't even trigger
- Seamless data capture of entire duration of signal events, like frequency hopping sequences, PLL settling times, turn on transients, and multiple pulses
- Accelerate troubleshooting and analysis by pinpointing the root cause of problems in any/all domains at any time with correlated markers
- Most advanced Real-time capability
- Automatic pulse measurement and detection

RSA5000B Real-Time Spectrum Analyzer

The RSA5000 Series mid-range Real-Time Spectrum Analyzer combines best-in-class RF performance with up to 165 MHz bandwidth and 6th Generation DPX® Technology. This provides the measurement confidence and functionality you demand for everyday tasks and gives you the dynamic range you expect for challenging spectrum analysis measurements.

MODEL	CAPTURE BANDWIDTH	FREQUENCY RANGE	SFDR AT 165 MHz BW (TYPICAL)	MINIMUM EVENT DURATION FOR 100% POI
RSA5103B	25 MHz, 40 MHz, 85 MHz, 125 MHz, 165 MHz	1 Hz - 3 GHz	80 dBc	0.43 μ s
RSA5106B	25 MHz, 40 MHz, 85 MHz, 125 MHz, 165 MHz	1 Hz - 6.2 GHz	80 dBc	0.43 μ s
RSA5115B	25 MHz, 40 MHz, 85 MHz, 125 MHz, 165 MHz	1 Hz - 15 GHz	80 dBc	0.43 μ s
RSA5126B	25 MHz, 40 MHz, 85 MHz, 125 MHz, 165 MHz	1 Hz - 26.5 GHz	80 dBc	0.43 μ s

INSTRUMENT OPTIONS

Opt. 09	Enhanced Real-Time
Opt. 10	AM/FM/PM Modulation and Audio Measurements
Opt. 11	Phase Noise / Jitter Measurement
Opt. 12	Settling Time (Frequency and Phase)
Opt. 14	Noise Figure and Gain
Opt. 20	Pulse Signal Analysis
Opt. 21	General Purpose Modulation Analysis
Opt. 22	Flexible OFDM Analysis
Opt. 23	WLAN 802.11a/b/g Measurements
Opt. 24	WLAN 802.11n Measurements
Opt. 25	WLAN 802.11ac Measurements
Opt. 26	APCO P25 Measurement Application
Opt. 27	Bluetooth Basic LE TX SIG Measurements
Opt. 28	LTE FDD and TDD BTS Power and BTS ID
Opt. MAP	Mapping and Signal Strength
Opt. 53	Memory Extension, 4 GB Acquisition Memory Total
Opt. 65	Digital I and Q Output
Opt. 54	Signal Classification/Survey

INSTRUMENT OPTIONS

Opt. B85	85 MHz Acquisition Bandwidth
Opt. 300	High Performance Real-Time
Opt. B16x	165 MHz Acquisition Bandwidth
Opt. B16xHD	High Dynamic Range, 85 MHz acquisition bandwidth
Opt. B25	25 MHz Acquisition Bandwidth (no charge option)
Opt. B40	40 MHz Acquisition Bandwidth
Opt. B85HD	High Dynamic Range, 85 MHz acquisition bandwidth
Opt. B125	125 MHz Acquisition Bandwidth
Opt. B125HD	High Dynamic Range, 125 MHz acquisition bandwidth

RECOMMENDED ACCESSORIES

SignalVu-PC	Vector Signal Analysis Software for your PC
119-4146-00	Near Field Probe Kit

RECOMMENDED SERVICE

R3	3-year Extended Warranty
R5	5-year Extended Warranty
C3	Calibration Service 3 Years
C5	Calibration Service 5 Years
R3DW	Repair Service Coverage 3 Years
R5DW	Repair Service Coverage 5 Years

SHIPS WITH PRODUCT

Quick Start Manual, Application Guide, Printable Online Help File, Programmer's manual (on CD), power cord, BNC-N adapter, USB Keyboard, USB Mouse, Front Cover, One-year Warranty

LEARN MORE

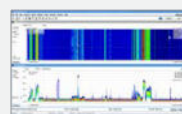
about Advanced Radar Analysis with the "Tool for Measuring Modern Radar" Application Note.



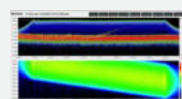


PRODUCT HIGHLIGHTS

- 16 kHz to 14/26.5 GHz frequency range covers a broad range of analysis needs
- High performance spectrum analysis for advanced design verification with -134 dBc/Hz phase noise at 1 GHz, 10kHz offset and amplitude accuracy of .05dB at 10 GHz to 26.5 GHz
- A broad range of analysis tools are standard. Standard measurements include channel power, ACLR, CCDF, OBW/EBW, spur search, EMI detectors amplitude, frequency, phase vs. time, DPX spectrum, and spectrograms. Correlated multi-domain displays
- Standard 320 MHz real-time bandwidth
- Available 800 MHz acquisition bandwidth for advanced radar, communications and spectrum management requirements



The RSA7100A combined with SignalVu-PC application licenses offers advanced analysis plus 800 MHz bandwidth and streaming to internal RAID.



With DataVu-PC you can search, mark and measure on up to 2,000,000 amplitude events or pulses in recorded files.

RSA7100A

The RSA7100A is a high performance spectrum analyzer focused on wideband analysis and signal recording. It provides real time spectrum analysis up to 800 MHz bandwidth and streaming storage of up to two hours. SignalVu-PC software is included for real time, spectrum and vector signal analysis, and DataVu-PC software is available for analysis of recorded signals.

MODEL	DESCRIPTION	FREQUENCY RANGE	CAPTURE BANDWIDTH	SPURIOUS FREE DYNAMIC RANGE	MINIMUM SIGNAL DURATION FOR 100% PROBABILITY OF INTERCEPT
RSA7100A 14*	Real-time signal analyzer, 320 MH acquisition bandwidth	16 kHz – 14 GHz	50 / 320 / 800 MHz	134 dBc at 1 GHz	700ns
RSA7100A 26*	Real-time signal analyzer, 320 MH acquisition bandwidth	16 kHz – 26.5 GHz	50 / 320 / 800 MHz	134 dBc at 1 GHz	700ns

* Only sold in UK and United States

INSTRUMENT OPTIONS

RSA7100A GPS	GPS receiver
RSA7100A CAL	Calibration report with data (ISO 17025)
RSA7100A GPS CAL	GPS receiver and calibration report with data (ISO17025)
RSA7100A C7100-A	Controller, no RAID memory
RSA7100A C7100-B	Controller, RAID memory, >20 minutes recording time (requires STREAMNL-SVPC)
RSA7100A C7100-C	Controller, RAID memory, > 120 minutes recording time (requires STREAMNL-SVPC)
RSA7100A SV09	High performance real time (export class 3A002), node-locked license

SIGNALVU-PC / DATAVU-PC LICENSES

B800NL-SVPC	License; 800 MHz acquisition bandwidth - RSA7100A; Node Locked
STREAMNL-SVPC	License; Streaming data; Node Locked
SVMHNL-SVPC	License; General Purpose Modulation Analysis to work with analyzer of any acquisition bandwidth and MDO; Node Locked

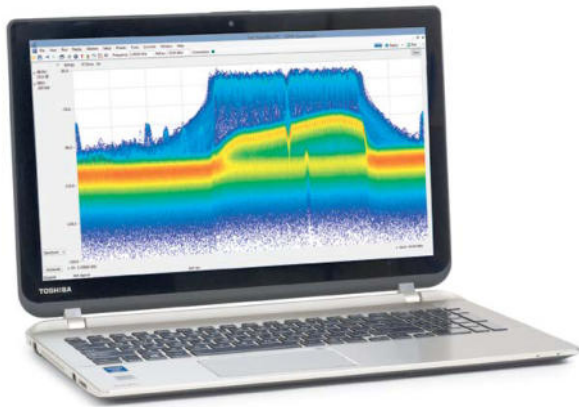
SIGNALVU-PC / DATAVU-PC LICENSES

SVPHNL-SVPC	License; Pulse Analysis to work with analyzer of any acquisition bandwidth and MDO; Node Locked
TRIGHNL-SVPC	License; Advanced triggers, RSA7100A only; Node Locked
MAPNL-SVPC	License; Mapping and signal strength; Node Locked
SV54NL-SVPC	License; Signal survey and classification; Node Locked
SVTNL-SVPC	License; Settling Time (frequency and phase) measurements; Node Locked
SV23NL-SVPC	License; WLAN 802.11a/b/g/i/p measurement; Node Locked
SV24NL-SVPC	License; WLAN 802.11n measurement (requires SV23); Node Locked
SV25HNL-SVPC	License; WLAN 802.11ac = measurement to work with analyzer of any acquisition bandwidth and MDO (requires SV23 and SV24); Node Locked
SV26NL-SVPC	License; APCO P25 measurement; Node Locked
SV27NL-SVPC	License; Bluetooth measurement; Node Locked
DVPC-SPAN1000-NL	DataVu Analysis of up to 1000mHz bandwidths; Floating

SHIPS WITH PRODUCT

Installation and safety manual, 3.5mm Crown Connector-Female, PCIe cable, mouse, keyboard, adapter, Mini-Display Port to HDMI, Mini-Display Port to DVI, Power cables, rack mount kits for acquisition unit and controller. Controller rack-mount is a 'telecom-style'. A server-style rackmount can also be used with the controller, available from third parties.

Note: A PC monitor is not included with the RSA7100A. Tektronix recommends the Dell UltraSharp U2414H 23.8 in. Widescreen IPS LCD Monitor, or any monitor that supports Display port, DVI or HDMI input and has a minimum 1920 x 1080 display resolution.




DATA
SHEET



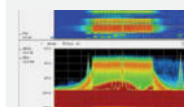
DOWNLOAD
SOFTWARE

PRODUCT HIGHLIGHTS

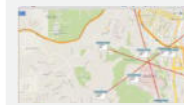
- Record/Playback of signals is available for the USB Spectrum Analyzers.
- Power measurements and signal statistics help you characterize components and systems: ACLR, Multicarrier ACLR, Power vs. Time, CCDF, and OBW/EBW.
- PC-based multi-domain vector signal analysis for waveforms acquired by Tektronix real-time signal analyzers and oscilloscopes.
- The basic features for SignalVu-PC are free of charge and available for download from Tek.com.
- Each option for SignalVu-PC is available as a Node Locked (NL) license or a Floating license (FL). You can try them for free with a 30-day trial license.

SignalVu-PC

SignalVu-PC vector signal analysis software helps you easily validate wideband designs. Using the signal analysis engine of the RSA5000 and RSA7100A Series on your computer or Windows tablet, you can now move your analysis of acquisitions off the instrument, and anywhere. SignalVu-PC directly controls the RSA306B and RSA500A/600A USB Spectrum Analyzers or the MDO4000C Mixed Domain Oscilloscope RF acquisition, enabling powerful measurements for spectrum analysis, vector signal analysis, pulse measurements, commercial wireless standards, and more. Whether your design validation needs include wideband radar, high data rate satellite links, wireless LAN or frequency-hopping communications, SignalVu-PC vector signal analysis software can speed your time-to-insight by showing you the time-variant behavior of these wideband signals.



DPX Spectrum



Mapping and Signal Geolocation



Bluetooth Signal Analysis

SIGNALVU-PC / DATAVU-PC LICENSES

SV23NL-SVPC SV23FL-SVPC	WLAN 802.11a/b/g/j/p measurement
SV24NL-SVPC SV24FL-SVPC	WLAN 802.11n measurement (requires SV23)
SV25NL-SVPC SV25FL-SVPC	WLAN 802.11ac measurement to work with analyzer of acquisition bandwidth <= 40MHz (requires SV23 and SV24) or MDO
SV26NL-SVPC SV26FL-SVPC	APCO P25 measurement
SV27NL-SVPC SV27FL-SVPC	Bluetooth measurement to work with analyzer of acquisition bandwidth <= 40MHz or MDO
SV28NL-SVPC SV28FL-SVPC	LTE Downlink RF measurement to work with analyzer of acquisition bandwidth <= 40MHz or MDO
SV54NL-SVPC SV54FL-SVPC	Signal survey and classification
SV56NL-SVPC SV56FL-SVPC	Playback of recorded files
SV60NL-SVPC SV60FL-SVPC	VSWR, Return Loss, Distance to Fault cable and antenna measurements. Required tracking
SV2CNL-SVPC SV2CFL-SVPC	WLAN 802.11a/b/g/j/p/n/ac and live link to MDO4000C to work with analyzer of acquisition bandwidth <= 40MHz or MDO

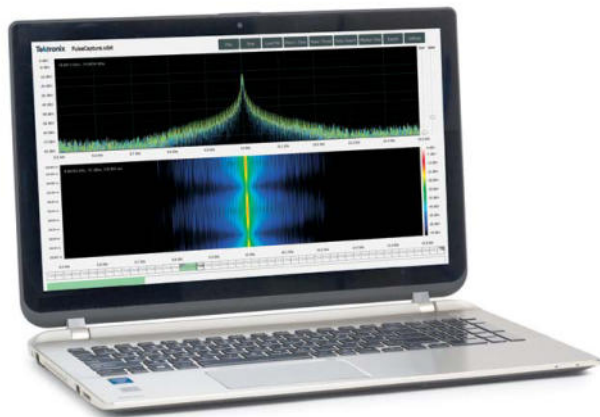
SIGNALVU-PC / DATAVU-PC LICENSES

SVANL-SVPC SVAFL-SVPC	AM/FM/PM/Direct Audio Analysis
SVMNL-SVPC SVMFL-SVPC	General Purpose Modulation Analysis to work with analyzer of acquisition bandwidth <= 40MHz or MDO
SVONL-SVPC SVOFL-SVPC	Flexible OFDM Analysis
SVPNL-SVPC SVPFL-SVPC	Pulse Analysis to work with analyzer of acquisition bandwidth <= 40MHz or MDO
SVTNL-SVPC SVTFL-SVPC	Settling Time (frequency and phase) measurements
CONNL-SVPC CONFL-SVPC	SignalVu-PC live link to the MDO4000C series mixed-domain oscilloscopes
EDUFL-SVPC	Education-only version of all modules for SignalVu-PC
MAPNL-SVPC MAPFL-SVPC	Mapping

LEARN MORE

about the signals around you by downloading the SignalVu-PC "eGuide to RF Signals."



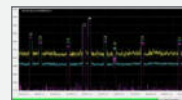


DATA SHEET

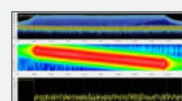
DOWNLOAD SOFTWARE

PRODUCT HIGHLIGHTS

- Search based on signal amplitude characteristics, marking each event occurrence for later examination.
- Make an unlimited number of Scalar pulse measurements with the eMarker application and export the results in Pulse Descriptor Word format for integration into other.
- Export results to in-depth analysis packages like SignalVu-PC from within DataVu-PC – without any additional conversion software.



Time overview views the whole file at once, controls start-stop time of analysis.



DataVu PC basic application license based on acquisition bandwidth, three bandwidths available.

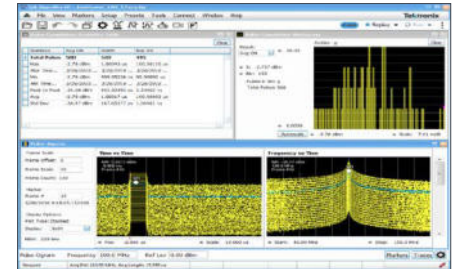
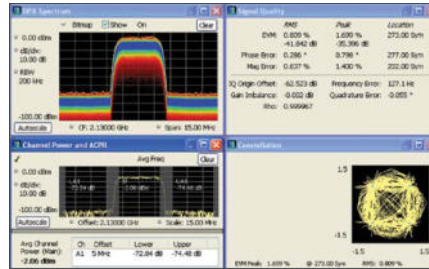
DataVu-PC

When combined with the signal recording capabilities of all Tektronix USB and PCIe-based spectrum analyzers, DataVu-PC can turn hours of attended monitoring into fast post-acquisition search, mark, and measurement tasks. Analyze your results without adding the extra step of conversion software, for showing you the time-variant behavior of these wideband signals.

DATAVU-PC LICENSES

DVPC-SPAN50NL	DataVu-PC operation on acquisitions to 50 MHz bandwidth-Node Locked License
DVPC-SPAN200NL	DataVu-PC-PC operation on acquisitions to 200 MHz bandwidth-Node Locked License
DVPC-SPAN1000NL	DataVu-PC operation on acquisitions to 1000 MHz bandwidth-Node Locked License
DVPC-PULSEN	DataVu-PC pulse analysis, Node Locked License
DVPC-SMARKNL	DataVu-PC Search and Mark, Node Locked License
DVPC-SPAN50FL	DataVu-PC operation on acquisitions to 50 MHz bandwidth-Floating License
DVPC-SPAN200FL	DataVu-PC operation on acquisitions to 1000 MHz bandwidth- Floating License
DVPC-SPAN1000FL	DataVu-PC operation on acquisitions to 1000 MHz bandwidth- Floating License
DVPC-PULSEFL	DataVu-PC pulse analysis, Floating License
DVPC-SMARKFL	DataVu-PC Search and Mark, Floating License

RSA7100A Series, RSA5000B Series and SignalVu-PC



Bluetooth®

Whether you are validating a new chipset, designing a new wireless module or integrating Bluetooth into your latest design, Tektronix provides RF PHY testing solutions to help you get the job done and get your design to market faster. Capability includes correlation between different displays showing the signal in all domains of operation (RF, Time, IQ).

Support is available for Basic Rate, Enhanced Data Rate and Bluetooth Low Energy. Contact Tektronix for Bluetooth 5 support.

For more information visit:
tek.com/bluetooth

General Modulation Analysis

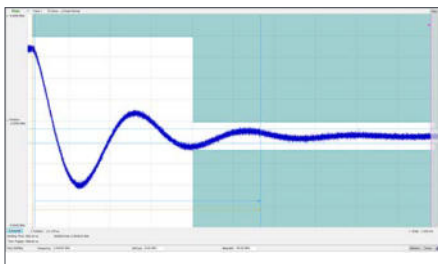
Are you designing to a proprietary wireless technology? Tektronix has a general purpose demodulation option to help you test the RF PHY layer of your device. Analysis of 27 modulation types including 16/32/64/256 QAM, QPSK, O-QPSK, GMSK, FSK, APSK is provided. Displays include Symbol Table, Constellation, Eye, Trellis, and Demodulated IQ Diagrams and gives you more insight into the quality of your signal.

For more information visit:
tek.com/product-software-series/signalvu-pc

Pulse Analysis

Tektronix gives you the ability to gain insight into important pulsed signals with a specific table of all results, pulse traces of pulse single pulse parameters, and pulse trend information on data for the whole pulse train. You can acquire more than 200,000 pulses for post analysis and cumulative statistics. You can characterize pulsed signals with 31 automatic pulse measurements such as Rise Time, Duty Cycle, Pulse Ripple and Droop. Pulse-Ogram displays a waterfall of multiple segmented captures, with correlated amplitude vs time and spectrum of each pulse.

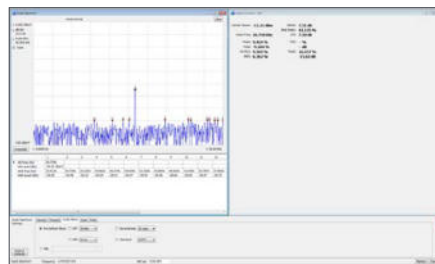
For more information visit:
tek.com/product-software-series/signalvu-pc



Settling Time (Frequency and Phase) Analysis

Easily select measurement bandwidth, tolerance bands, reference frequency (auto or manual), and establish up to 3 tolerance bands vs. time for Pass/Fail testing. Settling time may be referenced to external or internal trigger, and from the last settled frequency or phase.

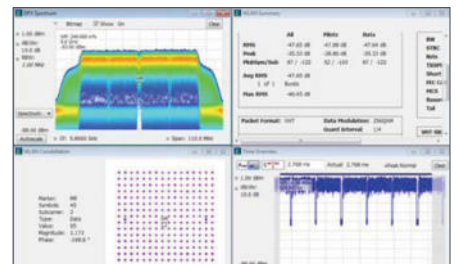
For more information visit:
tek.com/product-software-series/signalvu-pc



AM/FM/PM Direct Audio Measurements

This application software allows the RSAs to perform direct audio analysis for radio communications devices and components with basic measurements like THD, SINAD, Noise and Hum. Additionally, there are set high pass, low pass, or deemphasis filters available, which can also be user defined.

For more information visit:
tek.com/product-software-series/signalvu-pc

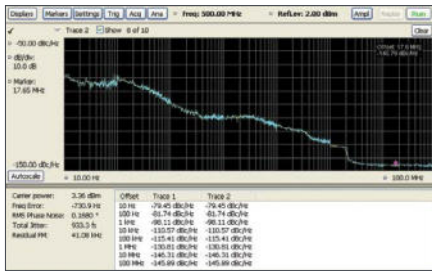


WLAN Analysis

WLAN options are available for in-depth analysis of 802.11a/b/g/j/p, 802.11n and 802.11ac standards. You can gain insight into the quality of the signal or just its mode depending on your application. Various displays allow you to analyze the signal in multiple domains such as constellation, amplitude versus time, or even the DPX spectrum. The density of the 'shoulders' of the WLAN signal are clearly seen in the DPX display.

For more information visit:
tek.com/product-software-series/signalvu-pc

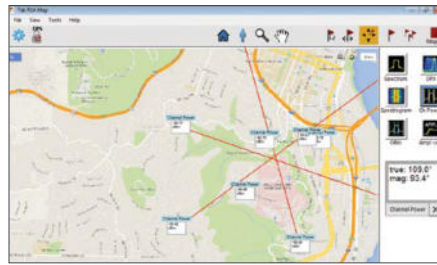
RSA7100A Series, RSA5000B Series and SignalVu-PC



Phase Noise and Jitter Measurements for the RSA5000 Series

Make important phase noise measurements quickly and easily when you characterize your wireless device. Identify timing issues with advanced jitter measurement capability like Timing Interval Error (TIE) and other jitter analysis plots.

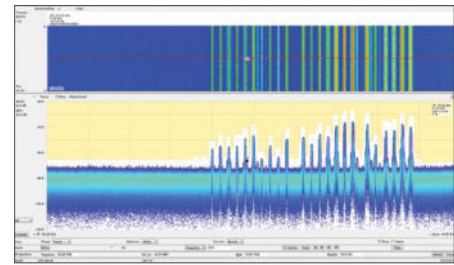
For more information visit:
tek.com/datasheet/spectrum-analyzer/rsa5000-spectrum-analyzers-datasheet



Mapping

Tektronix offers the MAP application that enables interference hunting and location analysis. Locate interference with an azimuth function that lets you draw a line or an arrow on a mapped measurement to indicate the direction your antenna was pointing when you take a measurement. You can also create and display measurement labels. Maps can be populated from the spectrum, DPX spectrum, Signal Strength, Spectrogram or Channel Power measurements. The Map It function in SignalVu-PC automatically captures GPS coordinates, time and the measurement results in a single file for later analysis.

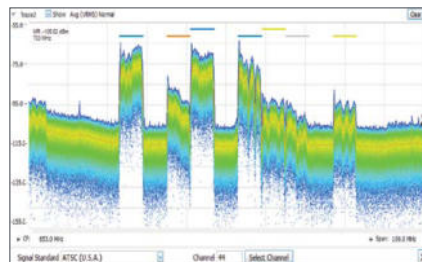
For more information visit:
tek.com/product-software-series/signalvu-pc



Playback of Recorded Files

Playback of recorded signals can reduce hours of watching and waiting for a spectral violation to minutes at your desk reviewing recorded data. Recording length is limited only by storage media size and recording is a basic feature included in SignalVu-PC. SignalVu-PC application SV56 Playback allows for complete analysis by all SignalVu-PC measurements, including DPX Spectrogram. Minimum signal duration specifications are maintained during playback. AM/FM audio demodulation can be performed. Variable span, resolution bandwidth, analysis length, and bandwidth are all available. Frequency mask testing can be performed on recorded signals up to 40 MHz in span, with actions on mask violation including beep, stop, save trace, save picture, and save data.

For more information visit:
tek.com/product-software-series/signalvu-pc



Signal Survey/Classification

The signal classification application (SV54) enables an expert systems guidance to aid the user in classifying signals. It provides graphical tools that allow you to quickly create a spectral region of interest, enabling you to classify and sort signals efficiently. The spectral profile mask, when overlaid on top of a trace, provides signal shape guidance, while frequency, bandwidth, channel number, and location are displayed allowing for fast classification.

For more information visit:
tek.com/product-software-series/signalvu-pc

ALLICE

Allied Consulting Engineers

make ALLICE your partner

ALLICE MESSTECHNIK GMBH

ALLICE SysTEC GMBH

KELSTERBACHER STRASSE 15-19 60528 FRANKFURT AM MAIN

TEL.: +49(0)69-67724-583 FAX: +49(0)69-67724-582

INFO@ALLICE.DE

www.allice.de

© 2017 ALLICE MESSTECHNIK GMBH & ALLICE SysTEC GMBH- ALLE RECHTE VORBEHALTEN.

© 2017 ALLICE MESSTECHNIK GMBH & ALLICE SysTEC GMBH- ALL RIGHTS RESERVED

VERWENDETE WARENZEICHEN UND SCHUTZRECHTE SIND EIGENTUM DER JEWEILIGEN HERSTELLER.

LOGOS AND COMPANY NAMES LISTED ARE TRADEMARKS OR TRADE NAMES OF THEIR RESPECTIVE OWNERS.