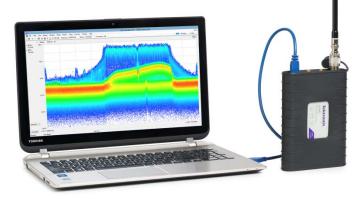
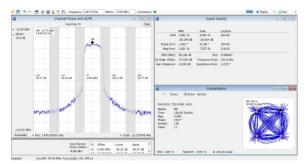
RSA306 Real Time Spectrum Analyzer

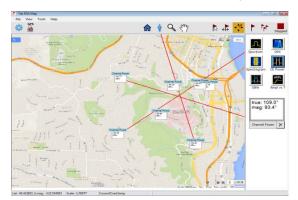
Performance RF signal analysis is in your hands



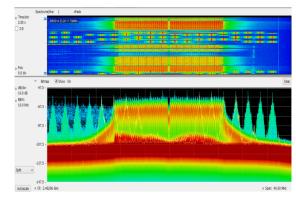
Features	Benefits	
9 kHz - 6.2 GHz frequency range	Covers from conducted EMI to the latest WLAN standard. Now you can afford an analyzer that can show the entire spectrum of your work	
Real time Spectrum/Spectrogram display, 40 MHz bandwidth	Minimize time spent on transient discovery and interference hunting. Immediate insight into your toughest problems	
SignalVu-PC software provides 27 spectrum and signal analysis measurements standard	The same analysis software as used on Tek's high performance signal analyzers and oscilloscopes gives you measurement confidence and flexibility to solve any problem	
Options for mapping, modulation analysis, standards support, pulse measurements and more	Meet today's needs with today's tools. Now you don't have to give up measurement capability to meet your budget	
Mil-Std 28800 Class 2 environmental, shock and vibration specifications	Take your solution to the problem, wherever it may be. Fit for use indoors or out, hot or cold	
Application Programming Interface included	Directly control the RSA306 and get data into your programs for further analysis. Includes Matlab driver with support for the Instrument Toolbox.	
Streaming capture to disk	Gapless recording of long-duration events aids in troubleshooting and interference hunting	



Sophisticated analysis made easy. Channel power, modulation parameters and ACLR in a single display



Mapping option to locate interfering signals



Complex signal relationships are instantly understood with real time analysis



RSA306 Real Time Spectrum Analyzer

Key specifications and ordering information

RSA306 Specifications. Se	e full data sheet for de	tails		
Frequency Range	9 kHz to 6.2 GHz			
Frequency accuracy	±3 ppm			
External freq. ref.	10 MHz ±10 Hz			
RF Input	DC voltage ±40 Vpc			
Max. Input, no damage	+23 dBm Reference level ≥ −10 dBm			
-	+15 dBm Reference level < −10 dBm			
IF Bandwidth	40 MHz			
Amplitude Accuracy	Typical (95% confidence) (18 °C to 28 °C)		Typical (-10 °C to 55 °C)	
9 kHz - < 3 GHz	±1.25 dB		±3 dB	
≥ 3 GHz – 6.2 GHz	±2.0 dB		±3 dB	
Displayed Average Noise	DANL (dBm/Hz)		DANL (dBm/Hz), typical	
Level				
100 kHz – 42 MHz (LF	-130		-133	
Path)				
2 MHz – 5 MHz	-145		-148	
> 5 MHz – 1.0 GHz	-160		-163	
> 1.0 GHz – 2.0 GHz	-158		-161	
> 2.0 GHz – 4.0 GHz	-155		-158	
> 4.0 GHz – 6.2 GHz	-150		-153	
Phase Noise at specified	Center Frequency			
offset, dBc/Hz , typical	10 MHz	2.5	GHz	6 GHz
10 kHz	-118		-80	-75
100 kHz	-120		-90	-85
1 MHz	-122	-	110	-105
Residual Spurious	< -85 dBm			
Input related spurious	< -50 dBc			
Temperature	Operating: -10° C to +55° C			
	Nonoperating: -51° C to +71° C			
Handling and transit	Per MIL-PRF-28800F C	lass 2		

Standard Accessories

USB 3.0 cable (1 M), PN 174-6584-xx

SignalVu-PC software, documentation, USB key, PN 063-4543-xx

Printed safety/installation manual (English) PN 071-3323-xx

Service Options

Opt. C3/C5 Calibration Service 3/5 Years

Opt. D1 Calibration Data Report

Opt. D3/D5 Calibration Data Report 3/5 years with Opt C3/C5

Opt. R3/R5 Repair Service 3/5 Years (including warranty)

SignalVu-PC with RSA306 Specifications and Features		
Maximum acquisition	1.0 s	
time		
Spectrum display		
Span Range	100 Hz to 6.2 GHz	
Res. Bandwidth range	10 Hz to 10 MHz	
DPX spectrum display		
Minimum signal	100 us, span= 40 MHz, RBW=Auto	
duration, 100%		
probability of intercept		
Span range	1 kHz to 40 MHz (real time) and up to 6.2 GHz swept	
Res. Bandwidth range	1 kHz to 10 MHz	
DPX Spectrogram display	Time resolution per line, 50 ms to 6400 s, user selectable	
Audio output	AM, FM	
Other Displays	Amplitude, frequency, phase vs. time, RF I and Q vs. time,	
(standard)	Time Overview/Navigator, Spectrogram, AM, FM, PM	
	analysis, Spurious Measurement, Spectrum Emission Mask,	
	Occupied Bandwidth, Channel Power and ALCR, MCPR,	
	CCDF.	

9 kHz-6.2 GHz Spectrum Analyzer		
Soft case, shoulder strap		
Hard case, Pelican iM2100		
Holds two units in rack		
Modulation analysis of more than 25 varieties of FSK, PSK,		
QAM. Constellation, EVM, freq. error, more		
Places your measurements on a map. Signal strength		
provides audio tone based on received signal power		
Standards based measurements for 802.11a/b/g/j/p,		
802.11n and 802.11ac WLAN applications		
Standards-based measurements for APCO P25 Phase 1,		
Phase 2.		
Scalar and vector pulse measurements		
AM/FM/PM/Direct audio analysis		
Settling time (frequency and phase)		

