



R&S®FSV3000 ET FSVA3000

Applications pour l'Aérospatiale et la Défense

Les fonctions standards :

Enregistreur SCPI Création automatique d'un script (CVI, C++, Python, Matlab) après une configuration manuelle de la mesure

Fonctions de mesures TOI, Harmonique, Densité de bruit, C/N, Channel Power, Time Domain Power, Spectrogramme (2D/3D)

Support des commandes SCPI 856x, 859x, 71xxx, PSA, PXA, FSx

Les modèles :

- R&S®FSV3004 - R&S®FSVA3004 : 10 Hz* – 4 GHz
- R&S®FSV3007 - R&S®FSVA3007 : 10 Hz* – 7.5 GHz
- R&S®FSV3013 - R&S®FSVA3013 : 10 Hz* – 13.6 GHz
- R&S®FSV3030 - R&S®FSVA3030 : 10 Hz* – 30 GHz
- R&S®FSV3044 - R&S®FSVA3044 : 10 Hz* – 44 GHz

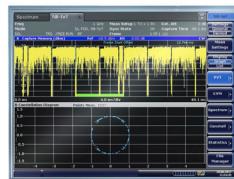
*2 Hz en option sur les modèles R&S®FSVA3000

Les principales caractéristiques

Spécifications	R&S®FSV3000	R&S®FSVA3000
Plancher de bruit	Standard : -151 dBm/Hz Option Préampl. : < -164 dBm/Hz	Standard : -152 dBm/Hz Option Préampl. : < -165 dBm/Hz
IP3 à 1 GHz	+15 dBm	+18 dBm
Bruit de phase à 1 GHz, 10 kHz offset	Standard : < -107 dBc/Hz Optionnel B710 : < -114 dBc/Hz	Standard : < -120 dBc/Hz Optionnel B710 : < -127 dBc/Hz
Bande I/Q interne	Standard : 28 MHz Jusqu'à 200 MHz	Standard : 28 MHz Jusqu'à 1 GHz
Profondeur mémoire	Standard : 100 M échantillons Optionnel B114 : 800 M échantillons	Standard : 100 M échantillons Optionnel B114 : 800 M échantillons
Autre	<ul style="list-style-type: none"> - Compact Flash contenant toutes les données extractibles (R&S®FSV3-B20) - Format Compact : 19" - 4 U - Ecran Multitouch 10,1" 	

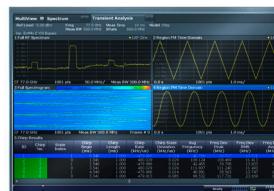


R&S®FSV3-K6 Analyse d'impulsion



- **Timing:** pulse width, pulse repetition interval, duty cycle, rise/fall time, settling time, timestamp, off time
- **Frequency:** carrier frequency, pulse-to-pulse frequency difference, chirp rate, frequency deviation, frequency error
- **Power:** peak power, average power, peak-to-average power ratio, pulse-to-pulse power ratio
- **Phase:** carrier phase, pulse-to-pulse phase difference, phase deviation, phase error
- **Amplitude:** droop, ripple, overshoot width, top/base power, average on power, average transmitted power, minimum/peak power, peak-to-average/peak-to-min power ratio, pulse-to-pulse power ratio
- **Point-in-pulse measurements:** frequency, amplitude, phase versus pulse, trend charts and histograms for all parameters
- **Pulse statistics:** standard deviation, average, maximum, minimum

R&S®FSV3-K60 Analyse de signaux FMCW (Chirp) ou saut de fréquences (Hopping)



- **Frequency hopping signals:** dwell time, settling time, switching time, frequency deviation, power, phase deviation, power ripple
- **Chirp signals:** frequency deviation, chirp begin, chirp length, chirp rate, chirp state deviation, phase deviation, power, power ripple
- Spectrogram and section of spectrogram, tabular display, frequency, frequency error, phase and amplitude versus time, FFT spectrum
- Pan and zoom functions to select analysis region using touch gestures; supported in spectrogram, spectrum and time domain trace display
- Trends and histograms for all parameters
- Hop/chirp statistics: standard deviation, average, maximum, minimum

R&S®FSV3-K70 Analyse de signaux vectoriels



- Analysis of digitally modulated single carriers down to bit level: EVM, MER, Phase error, Magnitude error, Carrier frequency error, Symbol rate error, I/Q skew, Rho, I/Q offset, I/Q imbalance, quadrature error, Amplitude droop, Power
- Eye diagram, Constellation diagram, Vector diagram, Histogram, Equalizer,
- Multiple modulation formats e.g.: 2FSK to 64FSK, MSK, GMSK, DMSK, Multiple PSKs (e.g. BPSK, QPSK, 8PSK, $3\pi/8$ -8PSK and more), 16QAM to 1024QAM, 16APSK (DVB-S2), 32APSK (DVB-S2), 2ASK, 4ASK, [User-definable constellations](#)
- BER (Bit Error Rate) of known data streams and [bit streams generated with PRBS shift registers \(R&S®FSV3-K70P\)](#)
- Analysis of vector modulated signals with [multiple modulations](#), e.g. DVB-S2(X) (R&S®FSV3-K70M)

Découvrez également :

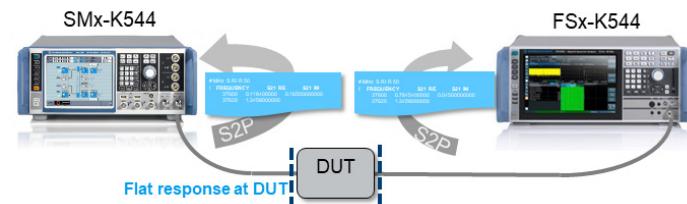
- R&S®FSV3-K7 : Modulation AM/FM/ ϕ M
- R&S®FSV3-K18 : Amplifier measurements
- R&S®FSV3-K9 : Power Sensors support
- R&S®FSV3-K54 : EMI measurements

R&S®FSV3-K30 et R&S®FSV3-K40 Mesure de facteur de bruit et bruit de phase



- **Noise figure, Gain,** Noise temperature, Y factor, ENR
- Measurements on non-frequency-converting DUTs and frequency-converting DUTs (SSB and DSB)
- **SSB phase noise,** Residual FM and residual ϕ M, Jitter
- 1 Hz to 10 GHz offset range
- Definable evaluation ranges for residual FM/ ϕ M
- Signal tracking, Optional suppression of spurious emissions

R&S®FSV3-K544 Compensation de la réponse en fréquence par fichier Touchstone SnP



- Frequency Response Correction (amplitude and phase) of the measurement setup
- Cascading multiple SnP files
- Mismatch correction with s1p file