

# R&S® SFU-K363

## Satellite Interferers

# Specifications

The scope of satellite interferer applications depends on the R&S®SFx-B3 ARB memory of the R&S®SFx.

Satellite interferers	I/Q sequences	satellite signals in line with NorDig Unified Test Specifications 2.0 (signal for task 1:13, 1:14) CISPR 20 ED6 (chapter 4.3.2; table 7, 7a) EN 55020 (chapter 4.3.2; table 7, 7a) EN 55022 (signal A1)
	release	V01.00 see description of option for details
ARB memory (R&S®SFx-B3)	minimum required waveform memory	1 Gbyte (256 Msample)
	recommended waveform memory	1 Gbyte (256 Msample)
ARB clock rate	bandwidth	depending on loaded waveform
	symbol rate	depending on loaded waveform
Transmission	operating modes	analog
PAL K363_satfm_pal_16mhz_mono.wv	analog TV signal	in line with PAL
	channel scenario	one-channel scenario
	one-channel scenario	
	video	
	video content	color bars 75 %, PAL, 625 lines
	vision modulation	frequency modulation (FM)
	video precorrection	ITU-R 405-1 (625 lines)
	line frequency	15625 Hz
	chroma carrier	4.43361875 MHz
	energy dispersal	25 Hz/2 MHz pp
	nominal video frequency deviation	16 MHz/V
	sound, mono	
	vision/sound carrier frequency spacing	6.5 MHz
	sound modulation	frequency modulation (FM), mono
	audio carrier AF	1 kHz
nominal frequency deviation	±85 kHz	
sound/vision carrier level	-17.8 dB	

PAL K363_satfm_pal_16mhz_stereo.wv	analog TV signal	in line with PAL
	channel scenario	one-channel scenario
	one-channel scenario	
	video	
	video content	color bars 75 %, PAL, 625 lines
	vision modulation	frequency modulation (FM)
	video precorrection	ITU-R 405-1 (625 lines)
	line frequency	15625 Hz
	chroma carrier	4.43361875 MHz
	energy dispersal	25 Hz/2 MHz pp
	nominal video frequency deviation	16 MHz/V
	sound, A1	
	vision/sound carrier frequency spacing	6.5 MHz
	sound modulation	frequency modulation (FM), mono
	audio carrier AF 1	1 kHz
	nominal frequency deviation	±85 kHz
	sound/vision carrier level	-17.8 dB
	sound, A2	
	vision/sound carrier frequency spacing	7.02 MHz
	sound modulation	frequency modulation (FM), mono
audio carrier AF 2	1 kHz	
nominal frequency deviation	±50 kHz	
sound/vision carrier level	-22.5 dB	
PAL K363_satfm_pal_22mhz_mono.wv	analog TV signal	in line with PAL
	channel scenario	one-channel scenario
	one-channel scenario	
	video	
	video content	color bars 75 %, PAL, 625 lines
	vision modulation	frequency modulation (FM)
	video precorrection	ITU-R 405-1 (625 lines)
	line frequency	15625 Hz
	chroma carrier	4.43361875 MHz
	energy dispersal	25 Hz/2 MHz pp
	nominal video frequency deviation	22 MHz/V
	sound, mono	
	vision/sound carrier frequency spacing	6.5 MHz
	sound modulation	frequency modulation (FM), mono
	audio carrier AF	1 kHz
	nominal frequency deviation	±85 kHz
	sound/vision carrier level	-17.8 dB
PAL K363_satfm_pal_22_5mhz_mono.wv	analog TV signal	in line with PAL
	channel scenario	one-channel scenario
	one-channel scenario	
	video	
	video content	color bars 75 %, PAL, 625 lines
	vision modulation	frequency modulation (FM)
	video precorrection	ITU-R 405-1 (625 lines)
	line frequency	15625 Hz
	chroma carrier	4.43361875 MHz
	energy dispersal	25 Hz/2 MHz pp
	nominal video frequency deviation	22.5 MHz/V
	sound mono	
	vision/sound carrier frequency spacing	6.5 MHz
	sound modulation	frequency modulation (FM), mono
	audio carrier AF	1 kHz
	nominal frequency deviation	±85 kHz
	sound/vision carrier level	-17.8 dB

SECAM K363_satfm_secam_22mhz_mono.wv	analog TV signal	in line with SECAM
	channel scenario	one-channel scenario
	one-channel scenario	
	video	
	video content	color bars 75 %, SECAM, 625 lines
	vision modulation	frequency modulation (FM)
	video precorrection	ITU-R 405-1 (625 lines)
	line frequency	15625 Hz
	chroma carrier	4.286 MHz
	energy dispersal	25 Hz/2 MHz pp
	nominal video frequency deviation	22 MHz/V
	sound, mono	
	vision/sound carrier frequency spacing	6.5 MHz
	sound modulation	frequency modulation (AM), mono
	audio carrier AF	1 kHz
modulation depth	30 %	
sound/vision carrier level	-17.8 dB	
NTSC K363_satfm_ntsc_17mhz_mono.wv	analog TV signal	in line with NTSC
	channel scenario	one-channel scenario
	one-channel scenario	
	video	
	video content	color bars 75 %, NTSC, 525 lines
	vision modulation	frequency modulation (FM)
	video precorrection	ITU-R 405-1 (525 lines)
	line frequency	15625 Hz
	chroma carrier	3.579 MHz
	energy dispersal	29.97 Hz/0.6 MHz pp
	nominal video frequency deviation	17 MHz/V
	sound, mono	
	vision/sound carrier frequency spacing	6.5 MHz
	sound modulation	frequency modulation (FM), mono
	audio carrier AF	400 Hz
nominal frequency deviation	±85 kHz	
sound/vision carrier level	-17.8 dB	
DVB-S K363_DVB-S_4PSK_24_5MS_ORIGINAL.wv	digital TV signal	
	channel scenario	one-channel scenario
	one-channel scenario	
	modulation	4PSK
	data rate	24.5 Msymbol/s
	roll-off	0.35
data	random test signal	
DVB-S K363_DVB-S_4PSK_27_5MS_ORIGINAL.wv	digital TV signal	
	channel scenario	one-channel scenario
	one-channel scenario	
	modulation	4PSK
	data rate	27.5 Msymbol/s
	roll-off	0.35
data	random test signal	
Waveform support	R&S®SFU	full support of all satellite interferers
	R&S®SFE	full support of all satellite interferers
	R&S®SFE100	full support of all satellite interferers

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