

SPECTRAN®

RF spectrum analyzers

Exclusive North American Distributor: Kaltman Creations LLC

651 Amberton Crossing Suwanee, Georgia 30024 USA Tel:678-714-2000 www.RFAnalyzer.net



SPECIFICATIONS base unit*	GENERAL		PROFESSIONAL		ENGINEERING	
Frequency range Min	700MHz	700MHz	10MHz	10MHz	1MHz	1MHz
Frequency range Max	2,5GHz	2,5GHz	4GHz	6GHz	6GHz	7GHz*
Optional Power-Detector (Maximum usable frequency)***	-	2,5GHz	4GHz	6GHz	6GHz	10GHz
Level [dBm] range (typical) Min	-80dBm	-80dBm	-90dBm	-90dBm	-90dBm	-90dBm
Level [dBm] range (typical) Max	0dBm	0dBm	0dBm	0dBm	0dBm	30dBm**
Power flux density [W/m²] Range Min	10nW/m²	10pW/m²	10pW/m²	10pW/m²	10pW/m²	10fW/m²
Power flux density [W/m²] Range Max	1W/m²	1W/m²	10W/m²	10W/m²	10W/m²	100W/m²
Filter bandwidth Min	1MHz	1MHz	100kHz	100kHz	100kHz	100kHz
Filter bandwidth Max	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz
Accuracy Base unit (typical)	+/-4dB	+/-4dB	+/-3dB	+/-3dB	+/-3dB	+/-3dB
Vector power measurement (I/Q) and True RMS	-	-	✓	✓	✓	✓

FEATURES

"Aliases free sweep" (RBW 300kHz-3MHz)***	-	✓	✓	✓	✓	✓
Standards-conformant exposure limits (ICNIRP, BGV B11, BlmSchV etc.)	-	✓	✓	✓	✓	✓
Extended full ICNIRP range	-	-	-	-	-	✓
Fast ZERO-SPAN sweep	-	-	✓	✓	✓	✓
PULSE mode (PEAK)	✓	✓	✓	✓	✓	✓
ADVANCED HOLD mode (HOLD function)	-	-	✓	✓	✓	✓
INTERNAL data logger (long-term measurements)	-	-	✓	✓	✓	✓
FLASH memory including firmware update (over the Internet)	-	16K	16K	64K(1MB)	64K(1MB)	64K(1MB)
"Clear text" signal identification with direct frequency display	-	✓	✓	✓	✓	✓
TIME-SLOT-ANALYZER	-	✓	✓	✓	✓	✓
Internal speaker	Piezo	Piezo	✓	✓	✓	✓
Configurable antenna and cable calibration data	-	-	✓	✓	✓	✓
Audio demodulation	AM	AM	AM&FM	AM&FM	AM&FM	AM&FM

DISPLAY

DIRECT RF spectrum display	-	✓	✓	✓	✓	✓
Exposure limits display with simultaneous percentage display	✓	✓	✓	✓	✓	✓
Main display in dBm, V/m, A/m or dBµV (switchable)	-	✓	✓	✓	✓	✓
ADDITIONAL display in W/m² with AUTORANGE (pW, µW etc.)	-	✓	✓	✓	✓	✓
High-resolution 50 segment bargraph (trend display)	-	✓	✓	✓	✓	✓
Peak marker display (3 strongest frequencies & levels at once)	-	✓	✓	✓	✓	✓

INTERFACES / CONNECTORS

Fast USB 2.0 Interface (PC connection)	✓	✓	✓	✓	✓	✓
Audio output	✓	✓	✓	✓	✓	✓
DC input (max. 15V) for external power supply	✓	✓	✓	✓	✓	✓
SMA RF input (F)	✓	✓	✓	✓	✓	✓
Jog Dial (multi-function dial) for "one-hand operation"	-	✓	✓	✓	✓	✓

OPTIONS (extra charge)

Option 001 (1MB memory expansion)	-	-	-	✓	✓	✓
Option 002 (5ppm time base / offers higher accuracy)	-	-	-	-	✓	✓
Option 201-205 (REALTIME broad band power-detector)	-	✓	✓	✓	✓	✓

INCLUDED ACCESSORIES in addition to the base unit

Miniature SMA rod antenna	✓	✓	✓	✓	✓	✓
HyperLOG EMV directional LogPer antenna (model) & SMA-cable	7025	7025	7040	7060	7060	6080
Aaronia 7,2V high-performance battery (1300mAh) + charger	✓	✓	✓	✓	✓	✓
Professional PC analysis software (Windows)	✓	✓	✓	✓	✓	✓
Aluminum design transport case	✓	✓	✓	✓	✓	✓

* Further spectrum analysers up to 9GHz are already in development. Please contact us for further details! Range, sensitivity and accuracy can change depending on frequency and used parameters. Precision values are based on Aaronia calibration-reference under specific test conditions. Unless otherwise stated, these specifications apply for the reference condition: ambient temperature 22±3°C, relative air humidity 40% to 60%, continuous wave signal (CW), RMS detection.

** Internal: +10dBm. External (with optional 20dB precision attenuator): **+30dBm**

*** Depending on frequency the optional power detector offers sensitivity up to -50dBm and max. +10dBm input power with an extremely fast reaction time.

The NEW Revision3 offers a "crystal clear" display without "20MHz aliases" (RBW 300kHz-3MHz), lower noise floor and a optional REAL TIME power detector.

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Specifications subject to change without notice, errors excepted. Subject to our most current terms and conditions..

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