

Extended Frequency Spectrum Analyzer

EVO-RSA-6070A

- Hybrid Swept-FFT Technology
- Frequency Range: 70MHz – 6 GHz
- Span up to 3 GHz
- Dynamic Range: 60 dB
- M & C: Web GUI, Avcom’s EVO-GUI, POSIX Compliant-C API
- 2 Inputs - Standard. Up to 16 Available



OPTIONS:

- External Reference Input
- GPS-Disciplined Reference
- DVB-S2 Demodulation

Rack Mount for Performance and Reliability

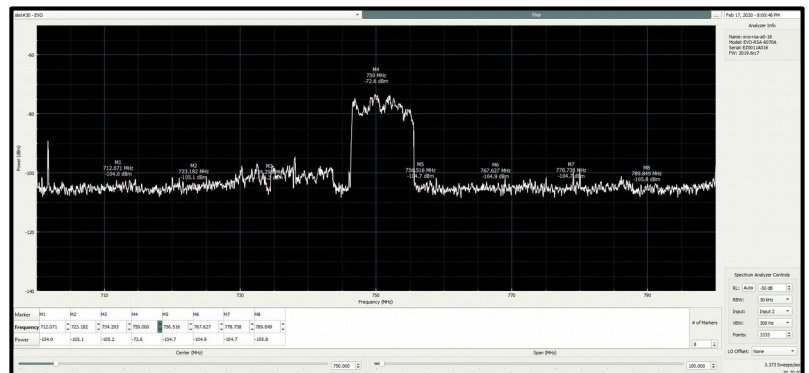
The EVO Series is built on Avcom’s completely new technology platform designed for higher performance, agility and growth in a world of ever-changing requirements.

Avcom has designed an SDR-style technology analyzer with a wide bandwidth receiver, employing FPGA, DSP, and high performance processors. The analyzer is based on a hybrid swept-FFT technology which provides extended frequency range and higher resolution. In addition to standard functional measurement, the EVO is available with optional DVB-S2 demodulation. This feature confirms channel symbol rate at the center frequency

Versatile Remote Control Software

The EVO-GUI (Graphical User Interface) is an excellent tool to access, monitor, and control the analyzer functions, alarm monitoring, and data logging features. The system can be accessed via ethernet. A POSIX-Compliant API is available.

“Following the Signal”, and listening to our customers, this series is perfectly suited to provide functionality in earthstations, teleports, and RF signal monitoring environments. The EVO Series of analyzers is an excellent addition to the Avcom family of products for demanding applications which require the extended performance characteristics, while still providing low cost-of-ownership and a highly cost-effective and reliable professional product.



TECHNICAL SPECIFICATIONS

FREQUENCY RANGE:	70 MHz to 6 GHz
SPAN WIDTH:	Up to 3000 MHz
RESOLUTION BANDWIDTH:	1kHz, 3kHz, 10kHz, 100kHz, 300kHz, 1MHz
REFERENCE LEVELS:	Selectable -10 dBm to -60dBm in 5 dB increments
SFDR:	60dB
AMPLITUDE ACCURACY:	± 1 dB typical
SCALE:	5 dB/Div & 2 dB/Div
USABLE RANGE:	-125 to -10 dBm
FREQUENCY ACCURACY:	± 1kHz typical
MAX RF INPUT:	25 VDC MAX (DC Blocked); +0 dBm
INPUT IMPEDANCE:	50 Ω
INPUT CONNECTOR:	SMA- 2-Inputs, standard
PORT-TO-PORT ISOLATION:	50dB typical
RETURN LOSS:	-15 dB
NOISE FLOOR (min atten)	-145 dBm/Hz
NOISE FLOOR (max atten)	-120 dBm/Hz
NOISE FIGURE (RL=-60dBm)	2.1 dB
PHASE NOISE @ 10 kHz (3 GHz)	-83 dBc/Hz
PHASE NOISE @ 100 kHz (3 GHz)	-85 dBc/Hz
PHASE NOISE @ 1 MHz (3 GHz)	-96 dBc/Hz
PHASE NOISE @ 10 kHz (6 GHz)	-79 dBc/Hz
PHASE NOISE @ 100 kHz (6 GHz)	-83 dBc/Hz
PHASE NOISE @ 1 MHz (6 GHz)	-91 dBc/Hz

TECHNICAL SPECIFICATIONS (cont.)

OPERATING TEMPERATURE RANGE:	0°C to +60°C
ENCLOSURE DIMENSIONS SIZE:	19" W x 18" L x 1.75" H
WEIGHT:	7.8lbs
POWER REQUIREMENTS:	+15 VDC/9W
OPTIONS:	- Attenuator
	- Additional Inputs; 4, 6, 8, 10, 12, 14 ,16
	- GPS Disciplined Reference
	- External Reference Input
	- Demodulation; DVB-S, DVB-S2
ACCESSORIES INCLUDED WITH ANALYZER : universal AC adaptor (100 to 240Vac) AC cord, EVO-GUI software for PC, RS-232 and Ethernet cables.	

Production Release. Specifications subject to change. ©2020 Avcom of Virginia, Inc. Rev 3 v0520