

RIGOL
Beyond Measure



Hints for optimizing Demodulation with a Spectrum Analyzer

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Solution: The Rigol DSA1000 and DSA800 series spectrum analyzers have demodulation capabilities.

Here are some hints that can optimize the demodulation output.

1. Use an antenna matched for the frequencies of interest
2. Set the center frequency of the spectrum analyzer to the center frequency of the signal of interest. For example, if you wish to demodulate an FM signal with a carrier of 100MHz, set your spectrum analyzer center frequency to 100MHz.
3. Select the proper demodulation type (AM for AM signals, FM for FM)
4. Enable the earphone or speaker on the spectrum analyzer
5. Insert a 3.5mm stereo or mono earphone set into the 3.5mm headphone jack (DSA815)
6. Set the demodulation time to 1s
7. Set the RBW to 1MHz
8. Adjust the volume to a safe level. You can also tweak RBW to lock in signal.



Headquarters

RIGOL TECHNOLOGIES, INC.
No.156,Cai He Village,
Sha He Town,
Chang Ping District, Beijing,
102206 P.R.China
Tel:+86-10-80706688
Fax:+86-10-80705070
Email: support@rigol.com

USA

RIGOL TECHNOLOGIES,USA INC.
7401 First Place, Suite N
Oakwood Village
OH 44164, USA
Toll free: 877-4-RIGOL-1
Office: (440) 232-4488
Fax: (216)-754-8107
Email: info@rigol.com

EUROPE

RIGOL TECHNOLOGIES GmbH
Lindbergh str. 4
82178 Puchheim
Germany
Tel: 0049- 89/89418950
Email: info-europe@rigoltech.com