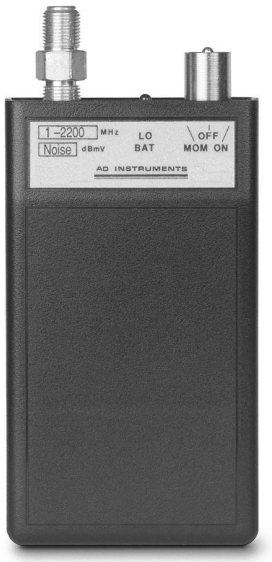
"AD2200"

Broadband RF Noise
Generator
User Instructions



DEFINITIONS

Network: An arrangement of coaxial cable and devices connected in such a manner to allow the transport of RF, video, audio and data.

DUT: Device-Under-Test

RF: Radio frequency signals

Cable: 75 Ohm coaxial cable

INTRODUCTION

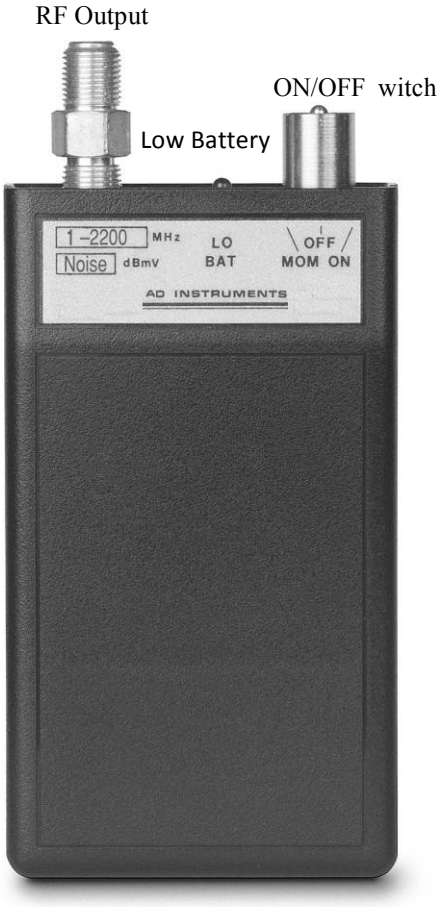
The AD2200 is a handheld broadband noise generator. It generates a wide, even RF noise signal that is used
for testing network components and aligning a building's coaxial cable network.

By injecting the AD2200's signal into the network or DUT at Point A, a technician can determine the network's or DUT's frequency response by connecting a spectrum analyzer or signal level meter (such as AD Instrument's DTVLINK series, at Point B. This frequency response measurement indicates the network's or DUT's flatness or ability to conduct RF signal at any specific measured frequency between 5-2150 MHz.

Each AD2200 package
contains:

- AD2200 Broadband RF Noise Generator
- Padded carrying case with belt clip
- Spare 9V battery
- Instruction page

OPERATION



NOTE: Do not connect this noise source to a system that contains active carriers (such as TV channels, data, etc.) This noise source will cause disruption to those services.

Connect a coaxial cable from the RF OUTPUT port of the AD2200 to your receiving device. Turn the AD2200's power on. Using your receiving device, note the level of the frequency range you are testing. This is your reference level.

Next, connect the coaxial cable from the RF OUTPUT port of the AD2200 to your network or DUT. Connect your receiving device to the output point of your network or DUT. Using your receiving device, measure and note the level. Subtract this level from your reference level to obtain the unflatness of your measurement.

BATTERY REPLACEMENT

If the LO BAT light does not flash once when the unit is turned on, or the LO BAT light flashes continuously, you may need to replace the battery.

1) Remove the AD2200 from its padded case.
2) Remove the battery cover from the rear of the AD2200.
3) Replace the low battery with a new, fresh alkaline battery.
4) Install the battery cover.
5) Re-insert the AD2200 back into its carrying case
6) Place a new, fresh alkaline battery in the battery holder of the case for future use.

SPECIFICATIONS

RF Signal Type ..... White Noise energy, Constant Spectral Density
Frequency Range ..... 1 to 2200 MHz
Amplitude Output Level (at least)

- dBm/Hz ..... -100
- Total measured with power meter
  ……. -6.7dBm, (+42 dBmV, +102 dBµV)
- Received through a 280 kHz
  Receiver……... -3 dBmV (+56 dBµV)
- Received through a 24 MHz
  receiver like typical DBS
  satellite tuners…….. -26 dBm (+22 dBmV) (+87 dBµV)
- Received through a 6 MHz
  Receiver..... -32 dBm (+17 dBmV) (+77 dBµV)

Amplitude Output Flatness
1 to 46 MHz ..... ±1.0 dB
46 to 860 MHZ..... ±1.0 dB
1 to 1450 MHz ..... ±1.0 dB
1550 to 2000 MHz ..... ±2.0 dB
5 to 2150 MHz ..... ±2.5 db

Output Impedance..... 75 Ω
Operating Temperature ..... 0° to 120°F (-18°C to +50°C)
DC Power..... 9V alkaline battery
Operation Time per Battery ..... 15 hours continuous
Low Battery Indicator ..... LED flashes during last 10% of battery life
Low Battery Cutoff..... Turns off signal when battery is insufficient
Enclosure Type, Size, Weight ... ABS Plastic, 2.4”W x 4.7”H x 0.9”D, 4 oz.
(6.1 cm) x (11.9 cm) x (2.3 cm), 113 g

Specifications subject to change without notice.

WARRANTY

The AD Instruments AD2200 has a limited warranty against defects in materials and workmanship for a period of twelve months. AD Instruments agrees to repair or replace any assembly or component (except F-connectors, battery, and carrying case) found to be defective under normal use during this period. AD Instruments' obligation under this warranty is limited solely to repairing the instrument proved to be defective within the scope of the warranty when returned to the factory. Transportation to the factory is to be arranged and prepaid by the customer. Authorization by AD Instruments is required prior to shipment.

AD Instruments assumes no liability for secondary charges or consequential damages and, in any event, AD Instruments' liability for breach of warranty under any contract shall not exceed the purchase price of the instrument shipped, and against which a claim is made.

Any application recommendations made by AD Instruments for the use of its products are based upon tests believed to be reliable, but AD Instruments makes no warranty of the results to be obtained. This warranty is in lieu of all other warranties, expressed or implied, and no representative or person is authorized to represent or assume for AD Instruments, any liability in connection with the sale of AD Instruments products other than that set forth herein.

Please keep your receipt of purchase to verify purchase date.

If it becomes necessary to have your AD2200 serviced,

contact:

AD Instruments, SL.
Cardeña 9
28053 Madrid, Spain
Tel. (+34) 916613037
Fax (+34) 916623037
www.adinstruments.es

Revised 05/2014