

# NS-1

NOISE GENERATOR (1-2150 MHZ)



## OVERVIEW

The NS-1 is a handheld broadband noise generator. It generates a wide, even, RF noise signal. The NS-1 is popular for testing network components and aligning a building's coaxial cable network.

The NS-1's signal is injected into the network at point A. Using a signal receiver, such as a spectrum analyzer or a signal level meter (i.e. Applied Instruments Super Buddy or XR-3), the NS-1's signal is received at point B.

The frequency response of the network, between points A and B, is obtained. This measurement allows the user to verify the RF integrity of cabling and its associated connections at all frequencies between 5 and 2150 MHz.

## NS-1 RF Noise Generator for Testing and Aligning



### BENEFITS

- Cost effective
- Compact and convenient handheld design
- Field replaceable "F" connector
- Signal drops out with low battery (no sagging)

### STANDARD ACCESSORIES

- Padded carrying case with belt clip
- Spare 9V battery

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## SPECIFICATIONS

- **RF Signal Type**
  - White Noise energy, Constant Spectral Density
- **Frequency Range**
  - 1 to 2150 MHz

## Maximum Output Level (at least)

- **Total**
  - -101.572 dBm/Hz, -8.3 dBm, +40.5 dBmV, +100.5 dBμV
- **280 kHz bandwidth**
  - -47 dBm, -2 dBmV, +58 dBμV
- **24 MHz bandwidth**
  - -28 dBm, +21 dBmV, +81 dBμV
- **6 MHz bandwidth**
  - -34 dBm, +15 dBmV, +75 dBμV

## Amplitude Output Flatness

- **5 to 46 MHz**
  - ±0.5 dB
- **46 to 860 MHz**
  - ±1.0 dB
- **950 to 1450 MHz**
  - ±1.0 dB
- **1550 to 2000 MHz**
  - ±2.0 dB
- **5 to 2150 MHz**
  - ±2.5 dB
- **Output Impedance**
  - 75Ω
- **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
- **Warranty**
  - 12 month limited
    - *Specifications subject to change without notice.*

