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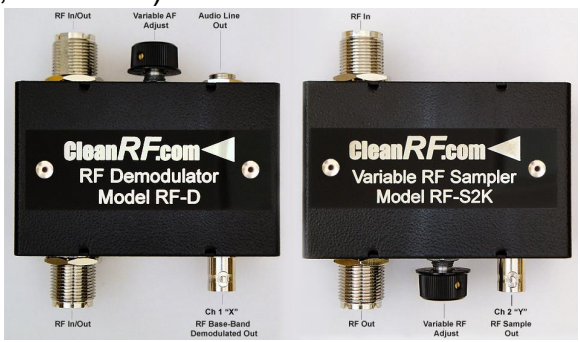
Splatter View 2K (RF-D & RF-S2K) (2,000 Watts)



Models RF-D and RF-S2K combo, for precise station monitoring of:

- Oscilloscope Horizontal "X" In Pre-Amplifier Reference Signal
  (RF-D)
- AM Audio Modulation via 1/4” TRS jack with volume control
  (RF-D)
- RF Envelope with Source Trigger Synchronization
  (RF-D)
- Oscilloscope Vertical "Y" In Post-Amplifier Reference Signal
  (RF-S2K)
- RF Modulation Envelope
  (RF-S2K)
- Pre-Distortion Sampling for use with Anan Pure Signal®
  (RF-S2K)
- Peak Envelope Power
  (RF-S2K)
- Spectral Analysis
  (RF-S2K)
- Trapezoidal X/Y pre/post Amplifier Signal Linearity
  (RF-D, RF-S2K)

The **Splatter View 2K** (model **RF-D/RF-S2K**) is made up of two independent plug-and-play passive solutions for exact monitoring of your stations RF performance, ensuring a low IMD splatter-free signal with maximum in-band talk-power. Achieving a true pre/post RF comparison has never been easier than plugging in the two BNC cables provided to your existing oscilloscope!

The idea behind the **Splatter View** series is simple. What goes into your amplifier, must be the same coming out -with the only added benefit of gain -period. Nothing else added to or taken away from your signal.

When you are truly linear, you will see crisp lines making up the sides of the trapezoid with no curves as shown in the images provided on our Applications page and movie demo near the bottom of our Applications page, showing a true trapezoidal pattern and those that are non-linear.

Our Product Info Sheet PDF below is a great reference for understanding the trapezoidal pattern as well. In addition, the system may be used in RF envelope monitoring mode with the benefit of the internal trigger. The trigger, is a wonderful signal that will lock the waveform as you speak.

Now monitoring in envelope mode is made much easier thanks to the filtered signal provided by our system into your oscilloscope. Independent product descriptions making up the Splatter View combo’s may be read above.

RF-D Specifications

- Frequency Response: 500 kHz ~ 60 MHz – Audio: 10 Hz ~ 16 kHz
- Rated Input: 1.5w ~ 200w PEP
- AM Dynamic Range: 60dBu
- Connectors In: SO-239
- Connectors Out: SO-239, BNC and ¼" TRS Audio Out
- Controls: Variable AF Output
- VSWR: < 1:1.1
- Insertion Loss: < 0.1 dB
- Cable and Adapter: 6 Ft. BNC Male-to-BNC Male and UHF Male-to-Male Adapter
- Applications:
  - Oscilloscope Horizontal "X" In (Pre-Amplifier Reference Signal)
  - AM Audio Modulation Monitor
  - RF Envelope Source Trigger Synchronization
- Dimensions: W 2 1/8" x L 3 ¼" x H 1 5/8"

RF-S2K Specifications

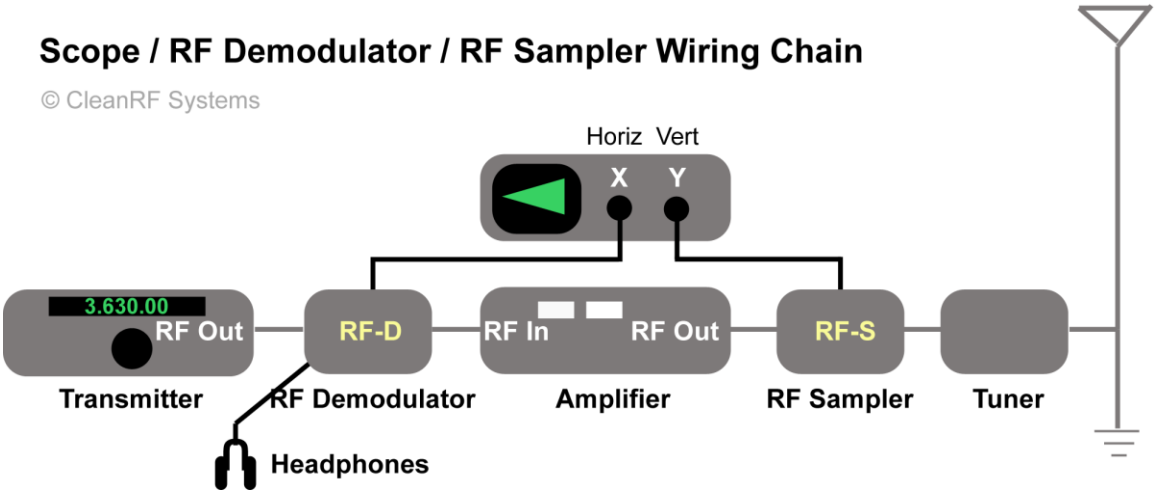
- Frequency Response:
  MF/HF: 500 kHz ~ 30 MHz
  6m: 40 ~ 60 MHz
  2m: 140 ~ 180 MHz
  70cm: 400 ~ 500 MHz

- Rated Input:
  MF/HF: 2,000w PEP
  6m: 1,500w PEP
  2m: 500w PEP
  70cm: 50w PEP

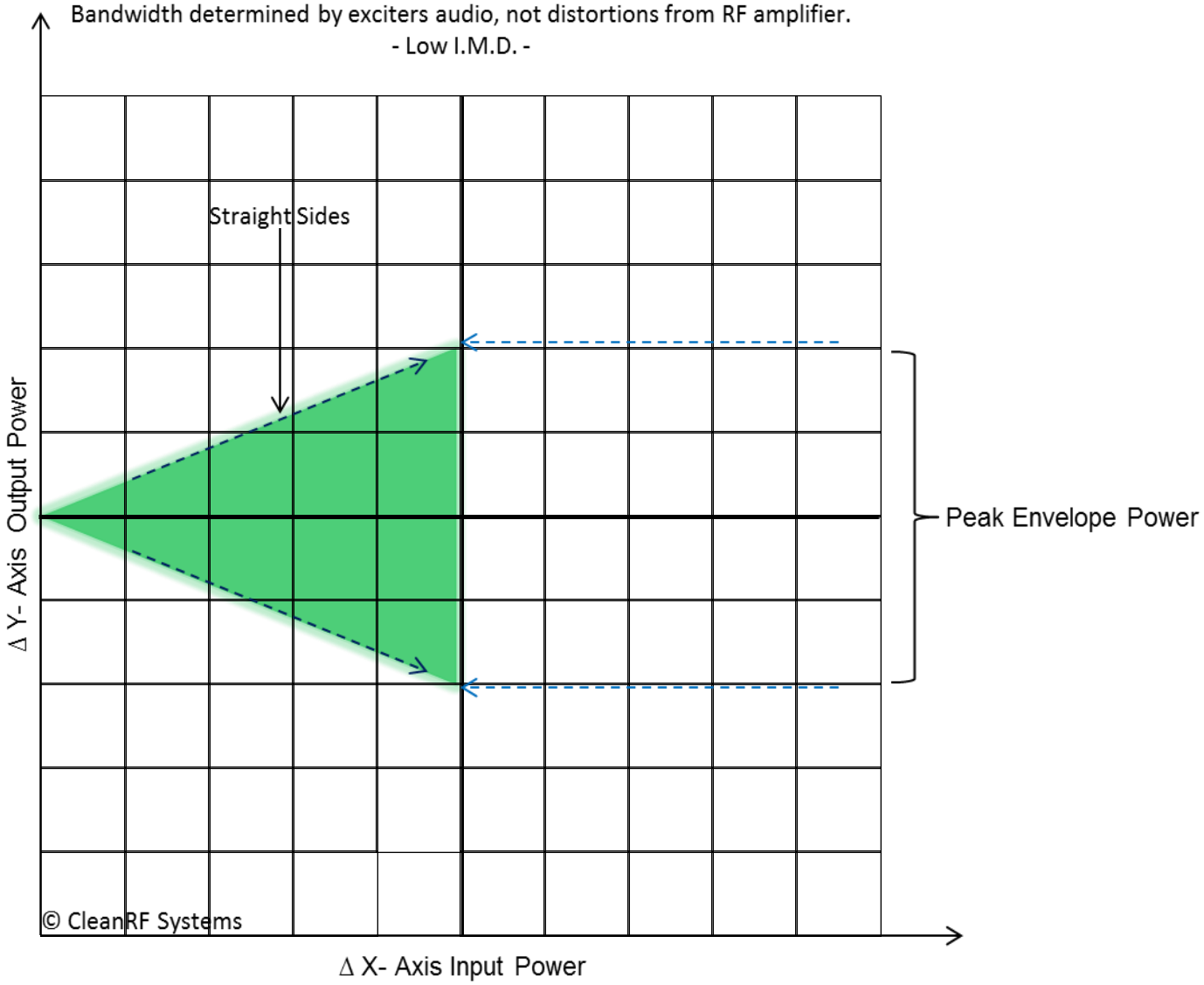
- Sampler Output:
  MF/HF: -60dBm @ 15MHz
  6m: -50dBm
  2m: -39dBm
  70cm: -29dBm

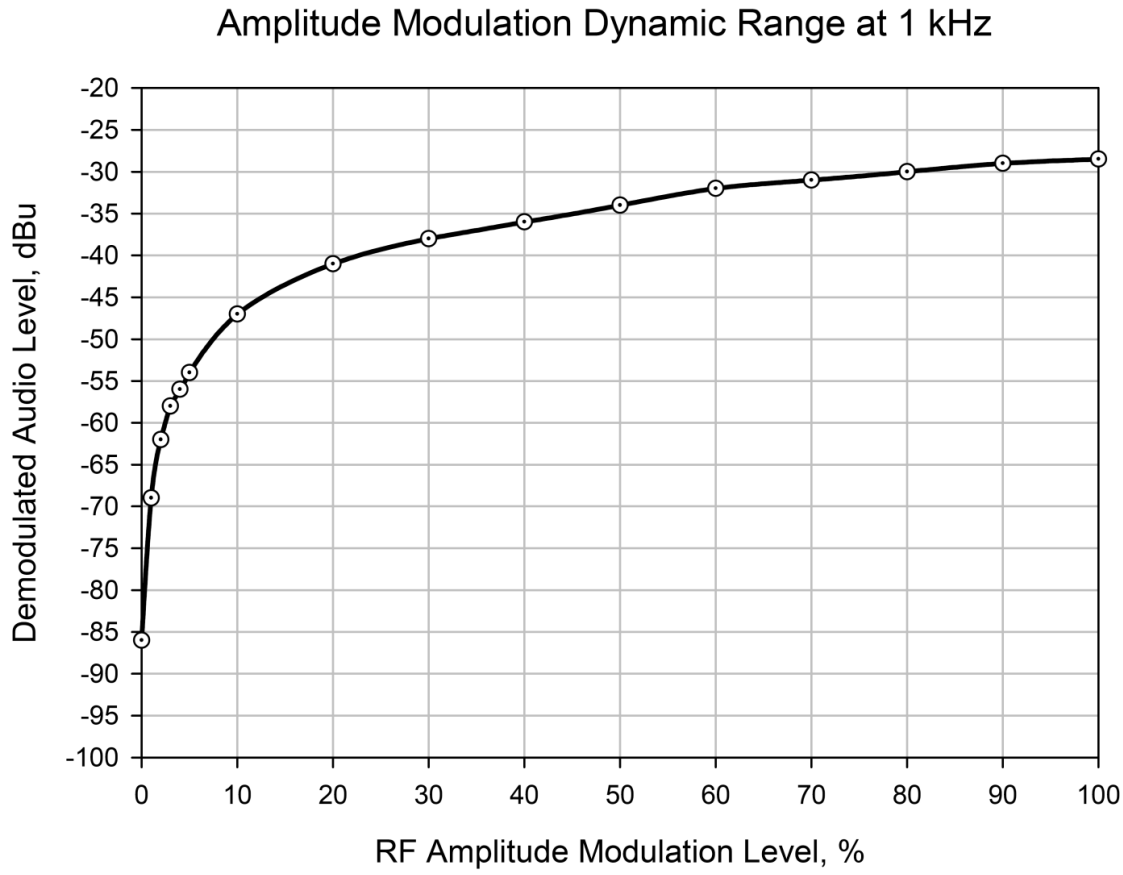
- Connectors In: SO-239
- Connectors Out: SO-239 and BNC
- Controls: Variable RF Output 6dB
- VSWR: < 1:1.1
- Insertion Loss: < 0.1 dB
- Cable and Adapter: 6 Ft. BNC Male-to-BNC Male and UHF Male-to-Male Adapter
- Applications:
  - Oscilloscope Vertical "Y" In (Post-Amplifier Reference Signal)
  - Pre-Distortion Sampling for use with Anan Pure Signal®
  - RF Modulation Envelope Monitor
  - Peak Envelope Power Monitor
- Dimensions: W 2 1/8" x L 3 ¼" x H 1 5/8"


RF In/Out
Variable AF Adjust
Audio Line Out
CleanRF.com
RF Demodulator
Model RF-D
RF In/Out
Ch 1 "X"
RF Base-Band Demodulated Out
RF In
CleanRF.com
Variable RF Sampler
Model RF-S2K
RF Out
Variable RF Adjust
Ch 2 "Y"
RF Sample Out


Scope / RF Demodulator / RF Sampler Wiring Chain
© CleanRF Systems
Horiz Vert
X
Y
3.630.00
RF Out
RF-D
RF In
RF Out
RF-S
Transmitter
RF Demodulator
Amplifier
RF Sampler
Tuner
Headphones

Trapezoidal Linear RF Pattern Provided by CleanRF Systems Splatter View.
Note sides of Trapezoid are straight with distinct angles.
Bandwidth determined by exciters audio, not distortions from RF amplifier.
- Low I.M.D. -





Sampling: 96000 Hz
FFT size: 65536
Averaging: 1
Window: Hanning

CleanRF.com RF Demodulator
RF at +7.1dBm, AM sweep 80% depth

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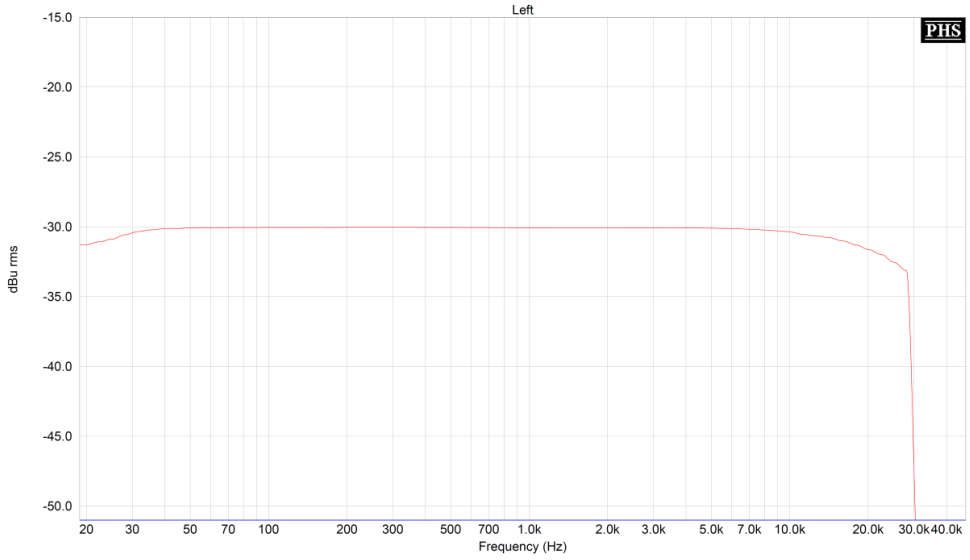

RF signal generated by HP2920A Comm Test Set = 7 MHz at +7.1 dBm carrier and 80% AM level.
RF Demodulator BNC output to M-Audio Delta 1010LT soundcard calibrated with Fluke 289 True RMS Meter at 1kHz.