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RDL®
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES
Model ST-NG1
Random Noise Generator

- True *Random* Noise Source
- Masking Noise Sources
- Pink Noise
- White Noise
- Mic and/or Line Level Noise Signals



The ST-NG1 is part of the group of versatile STICK-ON products from Radio Design Labs. STICK-ONs feature the advanced circuitry for which RDL products are known, combined with unequalled versatility in mounting possibilities. The durable adhesives provided with the ST-NG1 permit permanent or removable mounting. Numerous available mounting accessories, brackets and rack-mount chassis are optionally available to facilitate any system design. STICK-ONs are designed, built and rated for continuous duty in professional A/V systems.

APPLICATION: The ST-NG1 is the ideal choice where random white or pink noise is needed. It is suitable either as a reference noise source for audio measurements; or as a masking noise source in engineered sound or counter-intelligence applications, particularly where true *random noise* is required.

Amplitude limiting circuitry in the ST-NG1 controls extreme peak excursions while preserving random variations of at least 20 dB. The noise generating circuitry in the ST-NG1 is truly random analog noise occupying the full bandwidth from 20 Hz to 20 kHz. This makes the ST-NG1 ideal in masking environments where secure, random noise is required. Unlike the typical digitally-generated pseudo-random noise generators, which can be decoded and removed by effective intelligence equipment, the ST-NG1 produces no repetitive frequency or amplitude pattern.

Four outputs are available on the ST-NG1. Both a mic-level and line-level output are provided from each noise source. A 25-turn gain-trimming potentiometer is provided for the white noise. A separate 25-turn gain-trimming potentiometer is provided to set the pink-noise level, independent of the white-noise setting. The gain trim for each noise source adjusts both the line and mic output for that source. Each output is balanced low-impedance, and may be wired either balanced or unbalanced. All outputs may be used simultaneously.

Wherever white or pink noise signals are needed, the ST-NG1 is the ideal choice. Use the ST-NG1 individually, or combine it with other RDL products as part of a complete audio/video system.

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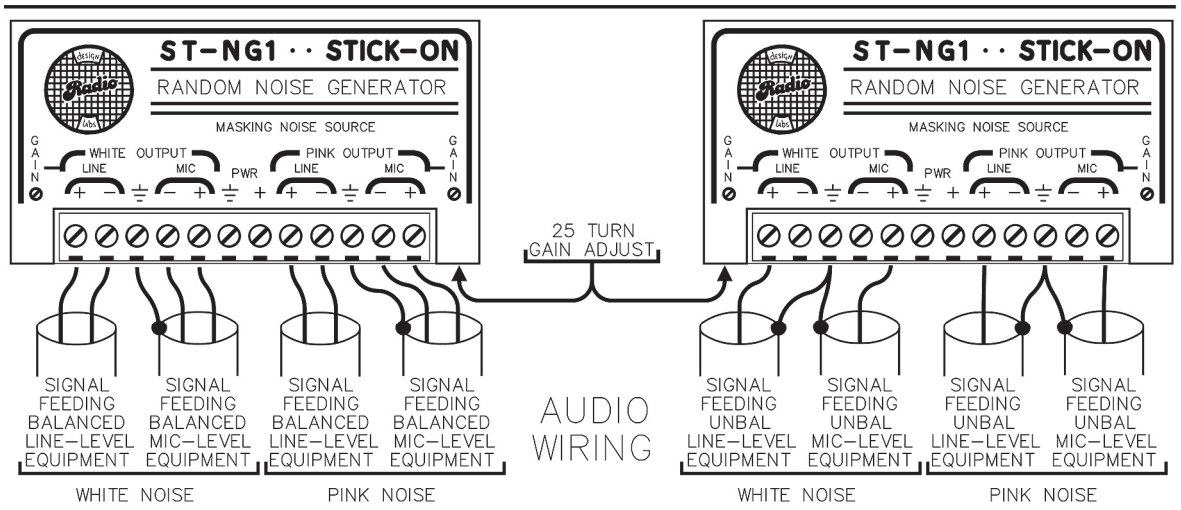
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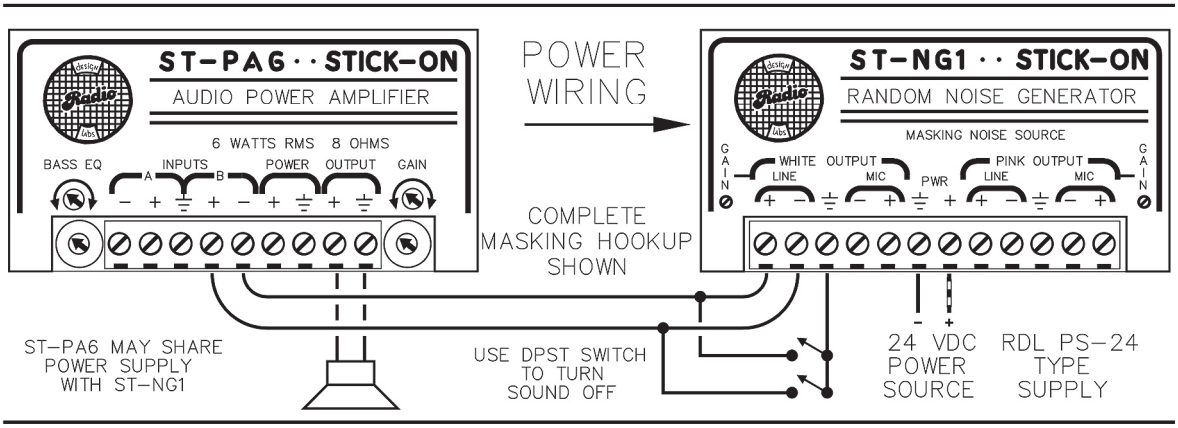
STICK-ON® SERIES

Model ST-NG1
Random Noise Generator

Installation/Operation

CE **Declaration of Conformity available from rdlnet.com.**
Sole EMC specifications provided on product package.
Specifications are subject to change without notice.





TYPICAL PERFORMANCE

Outputs (each source):	+4 dBu balanced line-level	Noise Band:	20 Hz to 20 kHz
	-45 dBu balanced mic level	Ambient Operating Environment:	0° C to 55° C
Output Level:	OFF to +8 dBu	Power Requirement:	GROUND-REFERENCED
	(line-level output adjustable)		24 Vdc @ 30 mA
	Off to -40 dBu	Dimensions:	Height: 1.55 in. 3.94 cm
	(mic-level output)		Width: 3.00 in. 7.62 cm
Spectral Distribution:	White and Pink Simultaneously		Depth: 0.65 in. 1.65 cm

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