



RDL[®]
Radio Design Labs

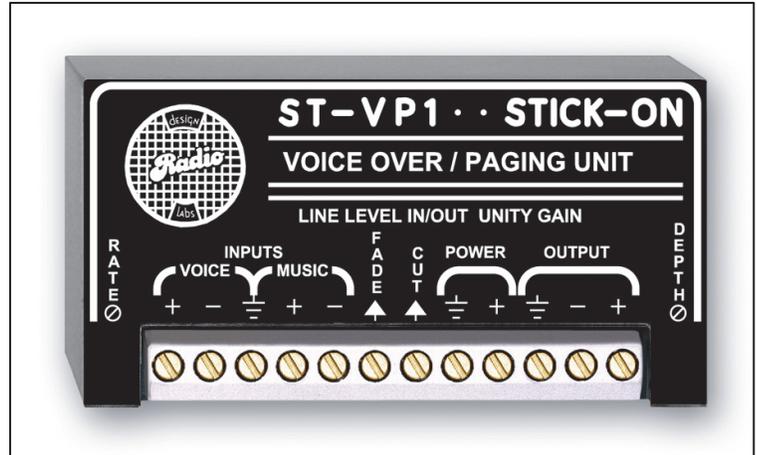
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES

Model ST-VP1

Voice-Over/Paging Module

- High Quality Voice-Over Mixing
- Noiseless Paging
- A Single Input Adapted for Paging or Voice-Over
- Selectable Fade-Under or Hard-Cut
- Adjustable Fade Depth and Rate
- Soft Audio Switching



The ST-VP1 is part of a group of products in the Stick-On series from Radio Design Labs. The durable bottom adhesive permits quick, permanent mounting nearly anywhere, or use it with RDL's racking accessories. The ST-VP1 offers the ultimate in quality preset mixing functions for voice-over and paging applications, with a big *plus*, you can put it right where you need it! STICK-ONS are designed, built and rated for continuous duty in professional A/V systems.

FUNCTIONAL DESCRIPTION: The exceptional audio quality together with the reasonable cost of the ST-VP1 makes it equally useful in voice-over studio recording applications and in paging installations. The module is a line-level device with two inputs; **MUSIC** and **VOICE**. The **MUSIC** input normally feeds the output when no control option is selected. Two control options are available; **FADE** and **CUT**. When **FADE** is externally selected (**FADE** terminal connected to ground), the **MUSIC** source is faded down, and the **VOICE** source is turned on. When the **FADE** terminal is released, the voice source is turned off and the music source fades back up. The fade rate, and fade depth are both adjustable on multi-turn trimpots. When the **CUT** terminal is selected (**CUT** terminal connected to ground), the music source is switched off and the voice source is switched on. When the **CUT** terminal is released, the voice source is switched off and the music source is restored. All switching and fading is accomplished electronically for noiseless operation.

PAGING APPLICATION: The ST-VP1 can be wired to constantly feed a line-level input of a paging amplifier. Line-level music and voice sources feed the module. The voice source may be a telephone paging signal at line level, or a microphone which has been preamplified up to line-level (See RDL STM-1, STM-2, STM-2X, STM-3 Microphone Preamplifiers). If the professional sound of music fading under the page is desired, the **FADE** terminal is used to select the page function. If a *hard-cut* is desired to get people's attention for emergency pages, the **CUT** terminal can be used. Innovative systems can be created by cascading modules for prioritized messages. A two-unit system would incorporate a ST-VP1 to operate the music fade for insertion of messages from a message repeater. The output of this module would feed a second ST-VP1 used in the *cut* paging. In this way, messages can be professionally mixed with background music, while attention-getting pages always take priority.

RECORDING APPLICATION: Many recording applications, such as narrations or commercial announcements, as well as on-air broadcast, use can be enhanced by uniform voice-over audio levels and fades. The superb audio clarity of the ST-VP1 makes it useful as the final mix device in this type studio. Using the ST-VP1 to mix the studio mic in after the studio mixer output can permit processing of the mic signal separate from the studio mixer. The ST-VP1 can be used together with other Stick-On modules for creative control. Microphone signals can be tailored and controlled with modules such as the STM-2 Mic Preamplifier, ST-EQ3 Equalizer and ST-CL2 Compressor/Limiter. Control of the ST-VP1 can be made convenient for announcers by using a lighted momentary pushbutton together with an ST-LCR2 alternate-action relay for control. The ST-VP1 can be the heart of many innovative systems in quality voice recording and broadcasting!

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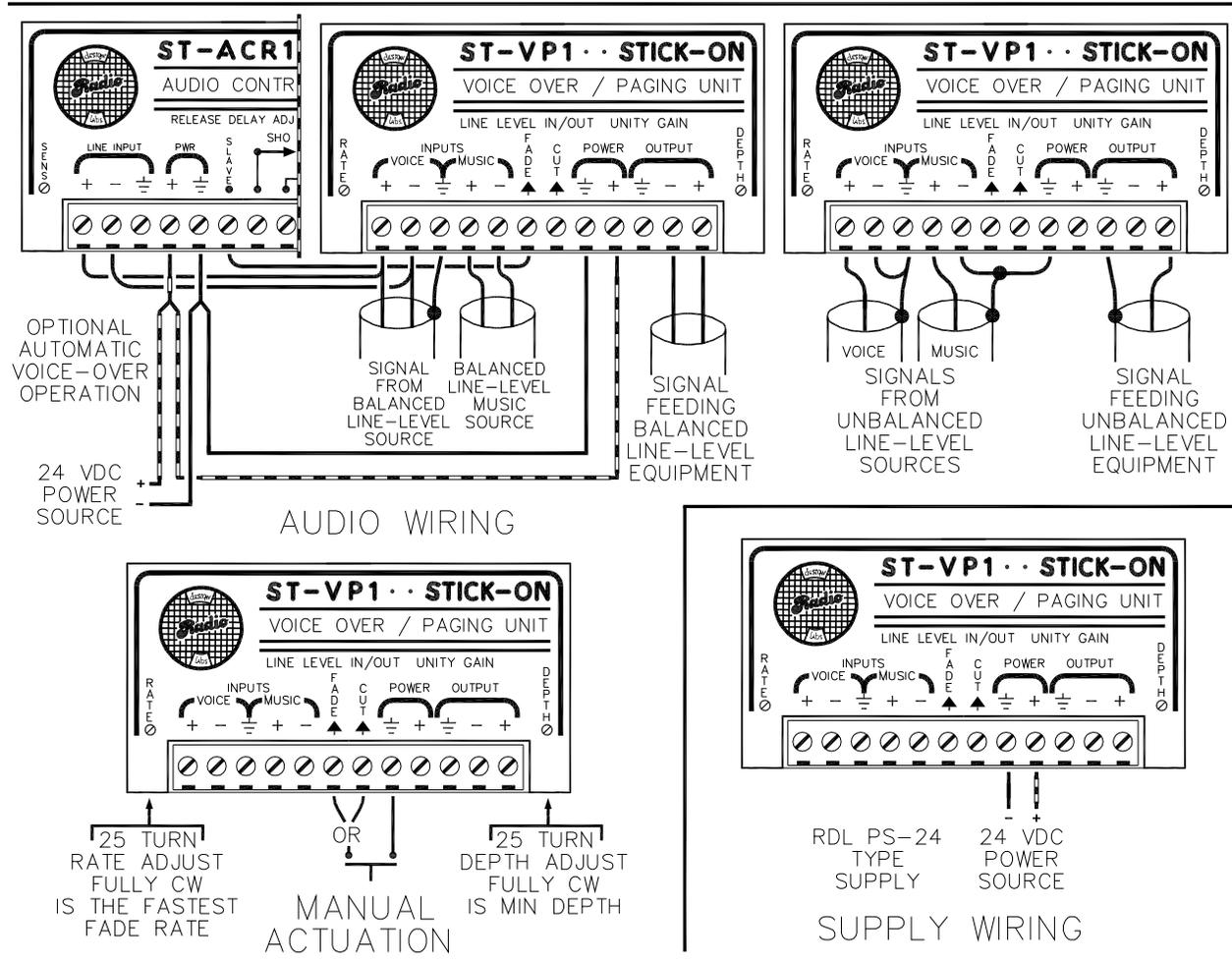
Model ST-VP1

Voice-Over/Paging Module



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

Installation/Operation



TYPICAL PERFORMANCE

COMMON:

Noise: < -85dB (below +4 dBu output)
 Input Level: +4dBu balanced (may be connected unbalanced)
 Headroom: > 18dBu above +4 dBu
 Output: +4 dBu balanced (may be connected unbalanced)
 Gain: Unity (balanced)
 Fade Rate: Adjustable 0.3 sec. to 1.3 sec. (for 20 dB fade)
 Adjustable 0.2 sec. to 1.0 sec. (for 12 dB fade)

Fade Depth:

MUSIC SOURCE:
 Frequency Response: 10 Hz to 20 kHz (+/- 0.25 dB)
 THD: < 0.010%
 Attenuation When Muted: > 65dB

VOICE SOURCE:

Frequency Response: 30 Hz to 20 kHz (+/- 0.25 dB)
 THD: < 0.010%
 Attenuation When Muted: > 80 dB

Power Requirement:

24 Vdc @ 45 mA, Ground-referenced

Radio Design Labs Technical Support Centers

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