Features

- Balanced line input (background music)
  - Automatic Gain Control
    - Target Level - Ratio - Attack/Decay - Gain meter
  - Adjustable 24 dB per octave Linkwitz-Riley Crossover
    - 80 – 110 – 150 – 200 Hz
- 6 Balanced outputs
  - Full-range, high-pass and low-pass source selection
  - Loudness compensation for low-pass outputs
  - Front panel Level control for each output
  - Wired DC Level Remote Control port
  - Optional VR 1 Remote Level Control
- Priority mic/line paging input
  - Remote assignment of priority input to any outputs
  - Automatic gating with adjustable threshold
  - Page ducker range of 0 to –80 dB
    - Mic-line mixing
    - Paging talks over music
    - Priority replaces music
- Optional SC 1.7 security cover
- European-style terminal block connectors (Euroblocks)

General Description

Do you have a paging and background music application that would benefit from a low cost, one-box solution? The DA 26 provides all of the tools needed to serve up to six zones. For even greater flexibility in source selection and zone distribution, combine the DA 26 with a Rane CP 52 or CP 64 music and paging preamplifier. Many existing solutions require installers to employ separate paging preamplifier, dynamics processor, crossover, distribution amplifier and remote-level-control devices. These systems are expensive and require a lot of wiring, yet fail to meet all of the requirements. The DA 26 provides all of the required features in one compact package.

The DA 26 routes a mono program source and priority/page source to as many as six zones. The mono program source is processed by an Automatic Gain Control (AGC) circuit featuring adjustable target level, ratio and attack/decay.

The priority/page input features automatic signal detection and remote zone assignment. A means of automatically attenuating program music over a range of 0 dB to –80 dB during a page allows mic/line mixing, talk-over or priority replaces-program operation.

Each of the six outputs distributes full-range, high-pass or low-pass program music. Small bookshelf or hanging speakers frequently require bass enhancement. Bass enhancement is achieved by adding bass to the full range response or by employing a true bi-amp system. The DA 26 provides a 24 dB per octave Linkwitz-Riley crossover that supports both bass enhancement schemes. Wired remote level control ports allow independent control of music amplitude in each zone. Loudness compensation is automatic when a remote is used. Remote level controls do not influence the priority/page level. It is possible to control multiple remote level ports with a single remote device. This allows one remote device to control the level in multiple zones or both high-pass and low-pass outputs in a single zone.
### Priority Input:
- **Input Impedance (mic/line):** 511 / 14.5k ohms
- **Max Input (mic/line):** -10 / +20 dBu
- **Gain Range (mic/line):** 30 to 60 dB
- **Frequency Response:** 10 Hz to 20 kHz
- **Equiv. Input Noise (mic):** -116 dBu
- **Noise (line):** -80 dBu
- **CMRR:** 40 dB
- **Overload Indicator:** 4 dB
- **Detect Threshold:** 0 to -80 dBu
- **Priority Assign Inputs:** 5V TTL active low or simple switch closure to ground

### Program Line Input:
- **Input Impedance:** 10k ohms
- **Gain:** 0 dB
- **CMRR:** 40 dB

### Automatic Gain Control:
- **Target Range:** -12 to +12 dBu
- **Threshold:** 26 dB below target
- **Gain Reduction Time Constant:** 230/11 ms
- **Gain Increase Time Constant:** 1100 ms
- **Gain Meter:** 0 to -80 dB

### Crossover:
- **Frequency:** 80, 110, 150, 200 Hz

### Outputs:
- **Output Impedance:** 100 ohms
- **Frequency Response:** 20 Hz to 20 kHz
- **Noise:** 88 dB
- **THD+N:** 0.05%
- **Maximum Output:** 22 dBu

### Remote Level Ports:
- **Voltage Range:** 0 to 5 VDC
- **Gain Control Law:** 50 mV per dB
- **Gain Range:** 0 to -80 dB

### Agency Listing:
- **Class 2 Equipment**
- **120 VAC model:** UL / CSA exempt
- **230 VAC model:** CE-EMC, CE-Safety Exempt
- **Power Supply: 120 VAC unit:** UL / CSA
- **230 VAC model:** CE-EMC, CE-Safety

### Power Supply Requirement:
- **Unit: Construction:** All Steel
- **Size:** 1.75"H x 19"W x 5.3"D (1U)
- **Weight:** 4 lb
- **Shipping: Size:** 4.25" x 20.3" x 13.75"
- **Weight:** 8 lb

*Note: 0 dBu=0.775 Vrms*
Architectural Specifications

The DA 26 shall provide a balanced, line-level, music input with automatic gain control featuring adjustable target level, ratio and response time. A seven-segment meter shall indicate the amount of gain modification over a range of -12 dB to +12 dB.

A 4th-order Linkwitz-Riley crossover shall provide three music signal outputs: full-range, high-pass and low-pass. The crossover shall have the ability to select any of four crossover points: 80, 110, 150 or 200 Hz.

The unit shall have six balanced outputs. Each output shall have the ability to select the full-range, high-pass or low-pass crossover signal as its source. A means to adjust each output level over a range of ±12 dB shall be provided on the front panel. The unit shall provide a remote level control port for each of the six outputs. The range of control shall be 0 to -80 dB. The remote port topology shall allow ganging any number of ports to a single remote device. Remote level control of low-pass outputs shall include Loudness compensation.

Priority/Page input shall be provided. This input shall accommodate microphone or line-level signals. Line-level gain shall have a range of 0 dB to 30 dB. Microphone gain shall have a range of 30 dB to 60 dB. Automatic threshold detection shall have a sensitivity adjustment range of +4 dBu to ON. A priority assign port shall provide a means of routing the priority input to any combination of zone outputs. When the Page/Priority signal exceeds the set threshold, an “active” indicator lights, the input signal routes to selected zone(s) and the music ducking circuit is enabled for selected zone(s). Automatic music attenuation shall be adjustable from 0 to -80 dB. Front panel and remote output level controls shall not influence the Priority/Page signal.

The unit shall mount in a standard 19-inch rack and occupy 1U. The unit shall accommodate an optional SC 1.7 single space security cover. All input and output connections shall be made via European-style terminal blocks. The unit shall be powered by an external RS 1 power supply. The power supply shall be UL listed, CSA certified and CE certified. The unit shall be CE certified.

The unit shall be a Rane DA 26 Distribution Amplifier.

Available Accessories

- VR 1 Remote Control: Linear Log remote level control
- SC 1.7 Single Space Security Cover