



# DA216S

## 2-Input 16-Output Distribution Amplifier

The Rane DA216S Distribution Amplifier is a two-input, sixteen-output splitter/distribution amplifier. The DA216S can provide sixteen discrete balanced outputs from one or two balanced mic-level or line-level inputs. The level of each output is individually adjusted via one of the sixteen screwdriver Output Level controls on the front panel.

The Master A and B Level controls affect the overall level of each input. In other words, they allow all assigned outputs to be turned up or down at once. LEDs indicate an Overload (OL) at either the inputs or at the internal gain stages.

Each input is set to either Mic or Line level via the rear panel Input Pad push button. The separate Input Gain push button switches provide a microphone input with +60 or +40 dB of gain, or a line input with +20 or 0 dB of gain. With Input Gain, Master Levels and Output Levels, any reasonable input signal may be adjusted to a nominal +4 dBu and still have 17 dB of headroom.

Each output stage incorporates a high-current balanced output line driver for driving long lines with optimal performance. Euroblock wire range is #14 to #26 stranded or solid. The DA216S incorporates a 100-240 VAC internal universal voltage power supply, operable nearly anywhere in the world.

### Features

#### Inputs

- (2) low-noise balanced inputs with overload indicators
- Mic/Line input and gain switches; 40/60dB Mic, 0/20dB Line
- Mic phantom power switch
- Master input level controls

#### Outputs

- A, B, A&B output assign switches
- (16) balanced (terminal) outputs, individually assignable
- Individual output level controls
- Stable, high-current line drivers capable of driving 600Ω loads
- Euroblock connectors included

Parameter	Specification	Limit	Units	Conditions / Comments
Mic Input Impedance	1.82k	1%	W	Balanced 909 + 909
Line Input Impedance	17.9k	1%	W	Balanced 8.97k + 8.97k
Mic Gain Control	+40 & +60	± 2	dB	2-position switch
Mic Pad	20	± 2	dB	2-position switch
Line Gain Range	0 & +20	± 2	dB	2-position switch
Overall Mic Gain	+56 & +76	± 4	dB	All controls maximum
Overall Line Gain	+16 & +36	± 4	dB	All controls maximum
Max Mic Input Level	-20	typ	dBu	Gain at 40 dB
Max Line Input Level	+21	typ	dBu	Gain at 0 dB
Overload LED	3 dB below clip	typ		Clip defined as 1% THD+N
Phantom Power	+15	+0.5	V DC	Phantom Power Switch Active
Output Impedance	200	1%	W	Balanced 100+100
Output Drive Level	+24	typ	dBu	600W load
Output Cable Length	1500	max	feet	Belden 8451 or equivalent
Mic Equivalent Input Noise	-128	typ	dBu	Rs=150, gain =60dB
Line Signal-To-Noise Ratio	100	min	dBV	Gain=0 dB, re +4dBu, 22 kHz BW
THD+Noise (Line Input)	0.005	typ	%	Gain=0 dB, +4dBu@1 kHz, 80 kHz BW
Frequency Response, Line	15-50 kHz	+0, -3	Hz	0dB Gain, 0 dBu Output
Frequency Response, Mic	15-50 kHz	+0, -3	Hz	40dB Gain, 0 dBu Output
Frequency Response, Line	30-50 kHz	+0, -3	Hz	60dB Gain, 0 dBu Output
Crosstalk	80	typ	dB	+4 dBu Output, 1kHz
Power Supply Requirement	100 to 240	10%	V AC	50/60 Hz, 7W
Connectors	(2) Euroblock zone inputs (+, -, ground) (16) Euroblock zone outputs (+, -, ground) (1) IEC power inlet			
Dimensions (wxdxh)	19.0" x 5.3" x 1.75" 48.3 x 13.3 x 4.4 cm			
Weight	4.0 lbs. 1.9 kg			