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You can read the recommendations in the user guide, the technical guide or the installation guide for RANE FDA 28. You'll find the answers to all your questions on the RANE FDA 28 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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RANE Professional Audio Products Data Sheet **FDA 28**
STEREO DISTRIBUTION AMPLIFIER

General Description

The Rane FDA 28 Distribution Amplifier is a two-input, eight-output splitter/distribution amplifier capable of providing eight discrete balanced outputs from two balanced inputs (mic or line level). Each output's level may be adjusted individually via the concentric level controls on the front panel. Each Input has its own GAIN control. The MASTER control affects the level being delivered to the bus prior to any splits. This allows the user to achieve an overall level adjustment that is independent of the OUTPUT controls (lets you turn everything up or down at once).

Each Input is set to either mic or line level via a rear panel MIC/LINE pushbutton. PHANTOM POWER is available for individual mic use and is activated by rear panel push switches.

Located inside the FDA 28 are eight (8) Pre/Post switches allowing the user to determine which, if any, outputs should be controlled by the OUTPUT controls only, and not the MASTER control. (See Block Diagram on rear.)

The separate STEREO/MONO switches allow mixed stereo and mono applications.

Each output stage incorporates a fully balanced output line driver of the cross-coupled design. This allows long lines to be differentially driven with confidence.

As is true with all Rane Flex modules, the FDA 28 sports a ground lift switch to guarantee freedom from ground loop induced hum and noise. Signal and chassis ground are available at each output. Euroblock connectors are used for easy installation, and accept up to 12AWG wire.

Features

- TWO BALANCED INPUTS
- MIC/LINE INPUT SWITCH
- PHANTOM POWER SWITCH
- STUDIO NOISE PERFORMANCE
- MASTER LEVEL CONTROLS
- PRE/POST OUTPUT ASSIGNMENTS
- SEPARATE STEREO/MONO SWITCHES
- OVERLOAD INDICATORS
- 8 CROSS-COUPLED BALANCED OUTS
- EUROBLOCK CONNECTORS

Parameter	Specification	Limit	Units	Conditions/Comments
Mic Input Impedance	1k	1%	Ohms	Balanced 500 + 500
Line Input Impedance	20k	1%	Ohms	Balanced 10k + 10k
Mic Gain Range	+26 to +65	2	dB	Excludes Output Gain
Line Gain Range	-7 to +32	2	dB	Excludes Output Gain
Phantom Power	+15	4%	VDC	
Output Impedance	50	10%	Ohms	Balanced 25 + 25
Output Drive Level	+22	1	dBu	10 VRMS Across 600 Ohms
Output Cable Length	1000' (305m)	typical		Belden 8451 or equivalent
Output Gain Range	Off to +6	0.5	dB	
Mic Equivalent Input Noise	-128/-108 (Max/Min Gain)	2	dBu	20kHz Noise BW; 150 Ohm Source
Line Signal-To-Noise Ratio	85	2	dB	re +4dBu, 20kHz BW, Unity Out
THD+Noise	0.02	max	%	+4dBu, 20-20kHz, Any Gain
Output Pre/Post Switches	Yes: 8			Internal Slide Switches
Frequency Response	10-150kHz	3	dB	MIN to -90° Gain
	30-150kHz	3	dB	MAX Gain
Crosstalk	75@1kHz / 50@20kHz	2	dB	Any Input to Any Output
Maximum Current	650		mA	RMS Current From Remote Supply



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Manual abstract:

The MASTER control affects the level being delivered to the bus prior to any splits. This allows the user to achieve an overall level adjustment that is independent of the OUTPUT controls (lets you turn everything up or down at once). Each Input is set to either mic or line level via a rear panel MIC/LINE pushbutton. PHANTOM POWER is available for individual mic use and is activated by rear panel push switches. Located inside the FDA 28 are eight (8) Pre/ Post switches allowing the user to determine which, if any, outputs should be controlled by the OUTPUT controls only, and not the MASTER control. (See Block Diagram on rear.) The separate STEREO/MONO switches allow mixed stereo and mono applications. Each output stage incorporates a fully balanced output line driver of the cross-coupled design. This allows long lines to be differentially driven with confidence. As is true with all Rane Flex modules, the FDA 28 sports a ground lift switch to guarantee freedom from ground loop induced hum and noise.

Signal and chassis ground are available at each output. @@Wire the balanced inputs to the Euroblock connectors. @@The Euroblocks accept any 12 to 28 guage wire. @@The above diagram shows the uncomplicated nature of the FDA 28. @@@Keep an eye on the OL indicator when setting the Gain.

@@Occasional flickering is permitted. @@@@@@Mixed stereo and mono applications require setting the separate STEREO/MONO switches. By moving any of these switches you program any of the output pairs for mono use. Each Output of the FDA 28 uses high current cross-coupled balanced line drivers. Use of the cross-coupled design allows the same gain whether used balanced or unbalanced.

When used unbalanced, it is mandatory that you ground the unused output. Outputs may be paralleled for driving extremely long lines (a mile or more), or where extra current (greater than 60 mA) is necessary. ©Rane Corporation 10802 47th Ave. @@.



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