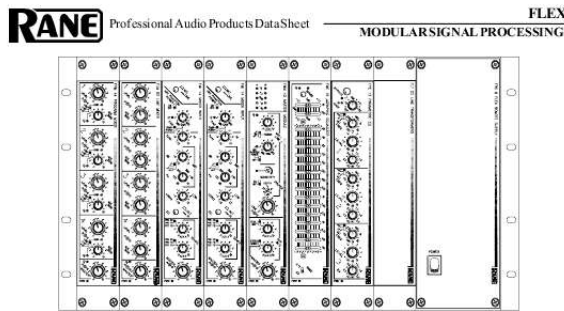




Your PDF Guides

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

User manual RANE FLEX
User guide RANE FLEX
Operating instructions RANE FLEX
Instructions for use RANE FLEX
Instruction manual RANE FLEX



Flex Series Modular Signal Processors

General Description

Rane's Flex Series of modular signal processors represents a milestone in system flexibility, quality and cost-effectiveness. Unlike previous modular approaches, the Flex Series requires no expensive mainframe in order to operate. Each module is self-contained and interfaces directly with other professional audio gear via 3-pin, screw terminals, 1/4" and DIN connectors. A multi-pin bus system on Flex mixer modules reduces interconnect wiring to a single short DIN cable (supplied), yet provides the kind of multiple program capability found on large, expensive mixing consoles.

Each Flex module conforms to the industry standard HR (Half Rack) mechanical specifications, allowing vertical or horizontal, recessed or flush mounting in to standard EIA equipment racks. Vertical mounting is achieved via a low-cost metal frame which holds 10 modules and occupies 6 rack spaces (10.5"). All active modules are powered externally by either the small RS 1, UL listed, CSA certified, IEC compatible power supply shipped with each unit, or by the vertical-mount FRS 8 Flex unit, or by the horizontal RAP 10 power supply. This low voltage external power supply system—also

being standardized by the pro audio industry—significantly improves signal quality, minimizes system grounding problems, and qualifies all Flex modules for Class 2 operation per the National Electrical Code. This means Flex systems carry automatic agency acceptance (UL, CSA, ETL, etc.) without the expensive approval process, allowing the timely development of top quality equipment at more competitive prices.

Flexibility is the key concept for the Flex Series. Each system can be custom tailored to its exact requirements, without the wasted costs of buying more than you need. And designed-in expandability means you can start with minimum outlay and increase system capability as the need and budget allow. This is particularly true when assembling a mixing system with Flex. Any size 4-bus mixer can be assembled with just the right number and type of inputs and equalization. Even a small start-up system offers features such as two separate source-selectable auxiliary buses, insert loops, phantom power and much more. Superlative quality, performance and flexibility distinguish the Flex Series.

Features

- SELF-CONTAINED MODULES
- MAINFRAME NOT REQUIRED
- REMOTE UL/CSA/ETL/AC POWER
- HIGHEST QUALITY PERFORMANCE
- BALANCED INPUTS AND OUTPUTS
- EXTREMELY LOW NOISE AND DISTORTION



[You're reading an excerpt. Click here to read official RANE FLEX user guide](http://yourpdfguides.com/dref/3395276)
<http://yourpdfguides.com/dref/3395276>

Manual abstract:

Unlike previous modular approaches, the Flex Series requires no expensive mainframe in order to operate. Each module is self-contained and interfaces directly with other professional audio gear via 3-pin, screw terminals, 1/4" and DIN connectors. @@@@All active modules are powered externally by either the small RS 1, UL listed, CSA certified, IEC compatible power supply shipped with each unit, or by the verticalmount FRS 8 Flex unit, or by the horizontal RAP 10 power supply. This low voltage external power supply systemalso General Description being standardized by the pro audio industry significantly improves signal quality, minimizes system grounding problems, and qualifies all Flex modules for Class 2 operation per the National Electrical Code. This means Flex systems carry automatic agency acceptance (UL, CSA, ETL, etc.) without the expensive approval process, allowing the timely development of top quality equipment at more competitive prices. Flexibility is the key concept for the Flex Series. Each system can be custom tailored to its exact requirements, without the wasted costs of buying more than you need. And designed-in expandability means you can start with minimum outlay and increase system capability as the need and budget allow. This is particularly true when assembling a mixing system with Flex.

Any size 4-bus mixer can be assembled with just the right number and type of inputs and equalization. Even a small start-up system offers features such as two separate source-selectable auxiliary buses, insert loops, phantom power and much more. Superlative quality, performance and flexibility distinguish the Flex Series. Features SELF-CONTAINED MODULES MAINFRAME NOT REQUIRED REMOTE UL/CSA/TUV AC POWER HIGHEST QUALITY PERFORMANCE BALANCED INPUTS AND OUTPUTS EXTREMELY LOW NOISE AND DISTORTION FLEX MODULAR SIGNAL PROCESSING Professional Audio Products Data Sheet Features and Specifications Parameter Input Impedance ..

.....

...Line

...Mic Max Input Level

..Line ...

.....

.Mic Input Design Input Connectors RFI Input Filters Max Output Level Output Impedance Output Design Output Connectors Frequency Response THD + Noise IM Distortion (SMPTE) Signal-to-Noise Ratio Overload LED Threshold Power Supply Input Power Supply Connector Remote Power Supply Safety Agency

.Classification

.Design

.....

.U.L. Listing

...C.S.A. Certification

.....

.CENELEC Unit

.....Construction

.....Size (typical)

.....

.Size FSC 22 (only)

.....Weight (typical) Shipping

.....Size

.....

.Weight (typical)

.....Weight FBB 44

.....Weight FAC 28

.....

.Weight FLM 82

.....Weight FSC 22

.....Weight FHA 19

.....

.Weight FHL 2

.....Weight FHT 2

.....Weight FSB 1

.....

.Weight FSC 10

.....Weight FVR 10 Note: 0 dBu=0.775 Vrms Specification 20k 1k +20 +0 Active Balanced/Unbalanced 3-pin, 1/4" TRS, Screw Terminal Yes +20 +18 100 Active Balanced/Unbalanced 3-pin, 1/4" TRS, Screw Terminal 20-20 kHz .03 .03 106/90 (re +20 dBu / +4 dBu) +16 18 VAC w/center tap 6-pin mod plug Model RS 1 Included Class 2 Equipment Safety Extra-Low Voltage U.

L. 813 Exempt C22.2 No. 1 Exempt IEC 65 Exempt All Steel 8.5"H x 1.75"W x 8"D 8.5"H x 1.75"W x 9"D 4 lb 6" x 12.5" x 12.5" 6 lb (w/power supply) 5 lb 7 lb (w/power supply) 7 lb (w/power supply) 7 lb (w/power supply) 1 lb 1 lb 7 lb 1 lb 4 lb 6 lb Limit 1% 1% 1 1 Units Ohms Ohms dBu dBu True Instrumentation Amplifier Check Individual Data sheets 1 1 1% dBu dBu Ohms 2k Ohms or greater 600 Ohms or greater Each Leg to Ground Cross-Coupled or Differential Line Drivers Check Individual Data Sheets +4 dBu, 20-20 kHz +4 dBu Unity Gain, 20 kHz BW All critical nodes monitored

Conditions/Comments Each Leg to Ground Differential .

25 .01 .01 1 1 10% dB % dB dBu Vrms See RS 1 Data Sheet National Electrical Safety Code VDE SELV Class 2 Class 2 Harmonization Doc. HD 195.S4
HR Compatible (21.

6 cm x 4.4 cm x 20.3 cm) (21.6 cm x 4.4 cm x 23 cm) (1.
8 kg) (15.2 cm x 31.8 cm x 31.8 cm) (2.7 kg) (2.3 kg) (3.2 kg) (3.2 kg) (3.2 kg) (.5 kg) (.

5 kg) (3.2 kg) (.5 kg) (1.8 kg) (2.7 kg) Professional Audio Products Data Sheet FLEX MODULAR SIGNAL PROCESSING Flex module design allows both system and stand-alone applications. All modules are complete and functional without other Flex units, and may be used alone or in conjunction with other manufacturers products. Modules exist with or without bus facilities. @@@@Modules with buses fall into the mixer category. @@These are labeled Master A/B and Aux A/B. Tremendous flexibility exists when using the Flex bus system.

@@These are offered as an aid in designing systems. Important differences distinguish each type of module. @@@@Please note the assignable Aux Send feature. @@@@Each module shall have a provision for ground-lift. @@@@Each module in the system shall furnish a power-on LED. @@@@Each microphone input shall have an input impedance of 1k Ohms. Maximum line input levels shall be +20 dBu. Maximum microphone input levels shall be 0 dBu. Each module shall be provided with an RFI input filter. @@@@The unity gain signal-to-noise ratio of all modules shall be in excess of 90 dB, re +4 dB, 20 to 20 kHz.

The signal threshold of all overload LEDs shall be +16 dBu. The modular signal processing shall be Rane Corporation Flex Series. FLEX MODULAR SIGNAL PROCESSING Professional Audio Products Data Sheet Vertical Mounting Accessories FVR 10 Vertical Rack This 12 gauge steel frame mounts up to ten Flex modules in a 19" rack, occupying 10.5" (6U) of rack space. All mounting hardware is included. Rack ears are included with each Flex unit. This is the required rack for mounting the optional FRS 8 Power Supply. FSB 1 Security/Blank Panel For use only with the FVR 10. This not only covers unused blank spaces, but can serve as an individual security cover over any recess mounted module. FSC 10 Security Cover This completely covers the entire FVR 10 Rack when all modules are recess mounted.

Horizontal Mounting Accessories FHT 2 Horizontal Tray This 12 gauge steel tray is recommended for all mobile rack installations. Units mount from the top by four screws apeice, assuring a solid installation. An FHA 19 may fill the empty side when mounting only one Flex unit. FHL 2 Horizontal Link Kit This assembly fastens the two inside panels of two Flex units together. Side rack ears come with each Flex unit. This kit is recommended for non-mobile applications, when mounting Flex units next to other 19" rack units. FHA 19 Horizontal Adaptor This allows 19" rack mounting of only one Flex unit. It is a shallow metal box with an open back, and uses the rack ears enclosed with each Flex unit. Other Flex Accessories Mod Power Cables, 24" These are spares from the FRS 8 or RAP 10 Power Supplies. Four to a package.

@@Four to a package. @@@@Six feet long, three to a package. ©Rane Corporation, 10802 47th Avenue W., Mukilteo WA 98275-5098 TEL(206) 355-6000 FAX(206) 347-7757 Printed in the U.S.

A. on Recycled Paper All features & specifications subject to change without notice. 520-074 AUG95 .



[You're reading an excerpt. Click here to read official RANE FLEX user guide](http://yourpdfguides.com/dref/3395276)
<http://yourpdfguides.com/dref/3395276>