



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for RANE CATALOG. You'll find the answers to all your questions on the RANE CATALOG 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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The image shows a stylized table of contents for the RANE CATALOG 2010 Professional Audio Products. The background is green with a circuit-like pattern of orange lines. The RANE logo is at the top left. A list of products and their page numbers is on the right, connected to the circuit lines. At the bottom left, there are boxes for 'Professional Audio Products', '2010', and 'www rane com'.

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Manual abstract:

@@@ - Connect up to 8 RADs to a single Mongoose with CAT 5 up to 150 meters (492 feet) away. · 32 by 32 digital audio matrix router, supporting 32 digital audio channels from 8 RADs. · Multiple Mongoose units can be networked to provide more channels. · Use with, or without, CobraNet. Receive 2 and transmit 2 CobraNet Bundles. · Supports DHCP, Zeroconf (Link-local & mDNS) & Auto MDI/MDIX. MICROPHONE SIG / OL LINE OUTPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD9 The Mongoose's 32-by-32 digital audio matrix router receives its first 16 audio channels from up to eight RADs via the eight rear panel 8P8C (RJ-45) Remote Audio Device ports. The second 16 matrix input channels can come from two 8-channel CobraNet receive (Rx) Bundles via standard CobraNet Primary and Secondary/backup ports. The 32 matrix router outputs transmit 16 channels to eight RADs and 16 more channels to two CobraNet transmit (Tx) Bundles. RAD NETWORK CAT 5 CABLE CONTENTS Data communications (COMM) 2 digital audio channels (Rx) 2 digital audio channels (Tx) Power: 24 VDC & ground Mongoose Tracker setup software for PC is included.

It allows you to name each Mongoose, RAD and audio channel, then print matching custom labels to insert above each jack. With RADs connected, Zeroconf-based Discovery automatically finds devices without IP setup or special IP knowledge. A family of RAD models is shown on the next page. Each converts analog audio to or from 24-bit, 48 kHz digital audio. Standard CAT 5 cable and termination transport four digital audio channels two channels each direction as well as power, ground and a communications channel, with status indicators at each RAD, Mongoose, and the computer.

Light sensors dim the RAD indicators in dark rooms. Except for the RAD16, AM1 and AM2, all RADs mount in standard US electrical gang boxes. These RADs are available in white, ivory, or black, with a matched Decora™ plate cover included. www.rane.com/mongoose

· Download Mongoose Tracker (free) · Download Design and Installation Manuals · See System Examples MICROPHONE SIG / OL MICROPHONE SIG / OL MICROPHONE SIG / OL MICROPHONE SIG / OL MICROPHONE SIG / OL MICROPHONE SIG / OL POWER COMM AUDIO RX AUDIO TX POWER COMM AUDIO RX AUDIO TX POWER COMM AUDIO RX AUDIO TX RAD1 RAD1 RAD1 Mongoose RADs RAD1 Dual XLR Mic Inputs RADX RAD Port Extension (CAT 5 jack) MICROPHONE SIG / OL MICROPHONE SIG / OL RAD PORT POWER COMM AUDIO RX AUDIO TX RAD1 RADX MICROPHONE SIG / OL LINE INPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD2 RAD2 XLR Mic Input / Mini & RCA Mono'ed Line Input MICROPHONE SIG / OL LINE INPUT SIG / OL LINE OUTPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD11 RAD11 XLR Mic Input / Mini & RCA Mono'ed Line Input / Mini & RCA Stereo Line Output RAD12 Dual XLR Mic Inputs / Dual XLR Line Outputs RAD14 XLR Mic Input / Mini & RCA Mono'ed Line Input / Dual XLR Line Outputs RAD15 Dual XLR Line Inputs / Dual XLR Line Outputs RAD16 Dual MicLine Input / Dual Line Output Euroblocks in surface mount box RAD18 XLR Mic Input / 1/4" Balanced Line Input 3 LINE INPUT SIG / OL LINE INPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD3 Dual XLR Line Inputs MICROPHONE SIG / OL MICROPHONE SIG / OL LINE OUTPUT SIG / OL LINE OUTPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD3 RAD12 LINE OUTPUT LINE OUTPUT POWER COMM AUDIO RX AUDIO TX RAD4 Dual XLR Line Outputs MICROPHONE SIG / OL LINE INPUT SIG / OL LINE OUTPUT SIG / OL LINE OUTPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD4 RAD14 AES3 INPUT LOCK AES3 OUTPUT POWER COMM AUDIO RX AUDIO TX RAD5 AES3 Input / AES3 Output LINE INPUT SIG / OL LINE INPUT SIG / OL LINE OUTPUT SIG / OL LINE OUTPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD5 RAD15 LINE INPUT SIG / OL LINE OUTPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD6 RAD6 Mini & RCA Stereo Line Input / Stereo Line Output RAD PORT OUTPUTS 2 1 INPUT 2 LINE MIC INPUT 1 LINE MIC +- +- +- +- +- LINE INPUT SIG / OL LINE OUTPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD7 XLR Mic Input / XLR Line Input MICROPHONE SIG / OL LINE INPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD6 RAD18 MICROPHONE SIG / OL LINE OUTPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD8 RAD8 XLR Mic Input / Mini & RCA Stereo Line Output 1 MIC INPUTS 2 3 LINE INPUT SIG / OL LINE OUTPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD23 XLR Line Input / XLR Line Output MIX PHONES AUX 2 USB OUTPUT SOURCE AUX 1 MICS AUX 2 USB OUTPUT AUTOMIXER RAD23 4 MIC MIX AUX 1 AM1 MICROPHONE SIG / OL LINE OUTPUT SIG / OL POWER COMM AUDIO RX AUDIO TX RAD9 XLR Mic Input / XLR Line Output SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL LOCATE POWER MIC INPUTS 1 2 3 4 5 6 7 8 OUTPUT CASCADE IN AUDIO TX AUDIO RX COMM POWER OUT AUTOMIXER AM2 SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL SIG LEVEL OL RAD LOCATE POWER RAD9 AM1 and AM2 Automixers include RAD ports. Features are on the next page. Automixers MIC +48V MIC +0V LINE MIC +48V MIC +0V LINE MIC +48V MIC +0V LINE USB 100-240V 50/60 Hz 13 WATTS ACN 001 345 482 COMM POWER POWER RAD PORT MIC LINE MADE IN U.S.A. RANE CORP. LOCATE AUDIO RX 2 CLASS 2 WIRING AM1 FourChannel GainSharing Automixer 4 · · · · Automixer with four gain-sharing XLR line/mic/phantom switchable Inputs, RCA and 3.5 mm Aux Line Inputs, USB audio Input. XLR mic/line switchable Mix Output, RCA Record Output, USB audio Output. Cue mics or any input with Headphones from 1/4" or 3.

5 mm jacks. Add more gain-sharing mic/line inputs with up to seven Rane AM2 Automixers for a total of 52 gain-sharing mics. RAD Port connects to a Rane Mongoose system. MIC +48V MIC +0V LINE MIC +48V MIC +0V LINE MIC +48V MIC +0V LINE USB 100-240V 50/60 Hz 13 WATTS ACN 001 345 482 POWER RAD PORT OUT MIC LINE MADE IN U.S.A. RANE CORP. LOCATE CLASS 2 WIRING AM2 EightChannel GainSharing Cascadable Automixer · Automixer with eight gain-sharing XLR line/mic/phantom switchable Inputs; XLR mic/line switchable Mix Output. · Add more gain-sharing mic/line inputs with up to seven more AM2 Automixers for a total of 56 gain-sharing mics.



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· RAD Port connects to a Rane Mongoose system.

DVD Player MP3 Player MENU Simultaneously record to or playback from your computer on USB. THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. Powered Speaker Wireless Receiver CASCADE IN 24 VDC @ 100 mA MAIN OUTPUT RECORD MIC +48V MIC +0V LINE MIC +48V MIC +0V LINE MIC +48V MIC +0V LINE USB 100-240V 50/60 Hz 13 WATTS ACN 001 345 482 COMM POWER POWER RAD PORT MIC LINE MADE IN U.S.A.

RANE CORP. LOCATE AUDIO RX 2 CLASS 2 WIRING AM1 Automixer To (optional) Rane Mongoose MIC +48V MIC +0V LINE MIC +48V MIC +0V LINE MIC +48V MIC +0V LINE USB 100-240V 50/60 Hz 13 WATTS ACN 001 345 482 POWER RAD PORT OUT MIC LINE MADE IN U.S.A. RANE CORP.

LOCATE CLASS 2 WIRING AM2 Automixer Up to seven more AM2 Automixers All additional mics are gain-sharing USB cable Ethernet (CAT 5) Audio cable The RPM Series of Multiprocessors also contain Automixer blocks. See them on pages 5-7. MIC +48V MIC +0V LINE FAULT USB DATA IN AM2 THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. 24 VDC @ 100 mA CASCADE OUTPUT 8 7 6 5 MIC INPUTS 4 3 2 MIC +48V MIC +0V LINE AM1 FAULT USB AUDIO TX 5 VDC @ 500 mA USB CHARGE ONLY AUX INPUTS 1 4 3 MIC INPUTS 2 MIC +48V MIC +0V LINE FAULT USB DATA IN AM2 THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. 24 VDC @ 100 mA CASCADE OUTPUT 8 7 6 5 MIC INPUTS 4 3 2 MIC +48V MIC +0V LINE FAULT USB AUDIO 24 VDC @ 100 mA AM1 AUDIO TX 5 VDC @ 500 mA USB CHARGE ONLY THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. CASCADE IN MAIN OUTPUT RECORD AUX INPUTS 1 4 3 MIC INPUTS 2 1 1 1 1 Drag Net incorporates familiar Windows file management tools and Fast Drag NetMEasily self-taught or factory trained over the internet in an hour. shortcuts. Drag Net offers the ultimate in signal processing Easy draw any system without signal flow restrictions. flexibility, allowing you to Rane's algorithms are the best in business, combining Awesome hardware DSPthe perfect system. Got onethe mind? Drag it togetherwith RPM for in yourself.

© Download and test-drive Drag Net software free at www.rane.com. Delay with Temperature Inputs: Up to 8 mic/line plus AES3 digital (depending on the RPM model). Daisy-chain more with AES3 I/O. Remotes: End-user Levels and Presets can be assigned to Remotes, installed near the source or inside the zone. Outputs: Up to 8 balanced line outputs plus an AES3 digital output (depending on the RPM model). 5 Mic / Line Inputs Rane RPM 88 Rane MA 4 multichannel amplifiers 10BaseT Ethernet Limiter Crossover: 2-Way or 3-Way Stereo Side-Chain Compressor Parametric Equalizer Everything is visible on one screen · On-the-fly DSP resource meter · Instant Auto-Compile. Clicking on any block brings up any of 18 dedicated detail blocks, some shown left and below. Ambient Noise Compensator Automatic Gain Control with Auto Mixer / Ducker with presets for speech and music, or tweak your own. 8 levels of priority and 4 types of input thresholds. Feedback Suppression with Autoseup. Accurately rejects feedback and not music. Graphic Equalization at its finest, with Perfect-Q or Proportional-Q. Drag Net Processors INPUT -4 -12 -48 1 2 3 4 5 6 7 8 AES3 A LOCK B -4 -12 -48 PRESET OUTPUT -4 -12 -48 1 2 3 4 5 6 7 8 A AES3 B -4 -12 -48 24 VIP/VOP RW 485 ETHERNET STATUS POWER PROGRAMMABLE MULTIPROCESSOR RPM 88 Peak dBFS COMMERCIAL AUDIO EQUIPMENT 24TJ RPM 88 MADE IN U.S.A. RANE CORP. + OUTPUTS 8 + INPUTS 4 3 + + R 7 + 6 + 5 + 2 + 1 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 ACN 001 345 482 + + + &s INPUT AES3 OUTPUT RPM 26z MADE IN U.S.

A. RANE CORP. COMMERCIAL AUDIO EQUIPMENT 24TJ 10Base-T AES3 INPUT VERSATILE INPUT PORT 0-5V +5V 100 mA 6 7 8 REF GND OUTPUTS 6 + 5 + 4 + 3 + 2 + 1 + INPUTS 2 + 1 + THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. 100-240V 50/60 Hz 20 WATTS FOR CONTINUED GROUNDING PROTECTION DO NOT REMOVE SCREW R 1 DEFAULT ACN 001 345 482 2 3 4 5 LAN LINK 1 2 3 4 5 6 7 8 REF GND + + + + + RPM 26z Drag Net Multiprocessor · 2 balanced line-level analog Inputs, 6 balanced analog Outputs, AES3 stereo digital Input (total of 4 in x 6 out). 1 2 1 2 A B 24 PRESET VIP ETHERNET STATUS POWER RPM 2m PROGRAMMABLE MULTIPROCESSOR INPUT OUTPUT AES3 7 INPUTS RPM 2m MADE IN U.S.A. RANE CORP. COMMERCIAL AUDIO EQUIPMENT 24TJ 10Base-T AES3 OUTPUT VERSATILE INPUT PORT 0-5V +5V 100 mA 6 7 8 REF GND OUTPUTS 100-240V 50/60 Hz 20 WATTS FOR CONTINUED GROUNDING PROTECTION DO NOT REMOVE SCREW R 2 + + 1 2 + + 1 1 DEFAULT ACN 001 345 482 2 3 4 5 LAN LINK 1 2 3 4 5 6 7 8 REF GND THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. + + + + RPM 2m Drag Net Multiprocessor · 2 balanced analog mic/line Inputs and line Outputs with AES3 digital Output (total of 2 in x 4 out).

1 2 1 2 24 PRESET VIP ETHERNET STATUS POWER PROGRAMMABLE MULTIPROCESSOR RPM 2 INPUT OUTPUT RPM 2 MADE IN U.S.A. RANE CORP. COMMERCIAL AUDIO EQUIPMENT 24TJ 10Base-T VERSATILE INPUT PORT 0-5V +5V 100 mA 6 7 8 REF GND OUTPUTS 2 + 1 + INPUTS 2 + 1 + THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. 100-240V 50/60 Hz 20 WATTS FOR CONTINUED GROUNDING PROTECTION DO NOT REMOVE SCREW R 1 DEFAULT ACN 001 345 482 2 3 4 5 LAN LINK 1 2 3 4 5 6 7 8 REF GND + + + + RPM 2 Drag Net Multiprocessor · 2 balanced analog line-level Inputs and Outputs (no AES3 digital). Smart Remotes connect to RPM 88 / 44 / 22 (RS-485), install in standard U.S. electrical boxes behind Decora™ plates (not included). Remote Controls SR 4 Smart Remote · Data encoder with integrated push switch. · Eight LED source selections. SR 2 Smart Remote · Data encoder with integrated push switch. · Two parameters: Level and 2nd-Level. SR 3 Smart Remote · Data encoder with integrated push switch.



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· Customizable backlit liquid crystal display.

MRS 4 Memory Recall Remote · Radio-button 4-way remote switch. · Connects to any RPM unit. VR 2 Volume Level Remote · Remote pot-on-a-wall level control. · For CP series, MA 4 or any RPM unit. (Use model VR 1 for MP 44 or DA 26S.

) LRS 4 Level Recall Remote · Switches 4 preset trimmed levels. · For CP series, MA 4, MP 44, DA 26S, any RPM unit. Paging Processors CP 64S 100-240 V 50/60 Hz 12 WATTS COMMERCIAL AUDIO EQUIPMENT 24TJ Z2 PGM Z2 LEVEL REMOTES WIRING MIN MAX Vr Vc ZONE 2 EXPAND OUT ZONE 1 EXPAND OUT OUTPUTS Z2 EXPAND Z2 MONO LIMITER ZONE 1 ZONE 2 +8 +8 PROGRAM INPUTS PRIORITY ASSIGN ZONE off 1 +20 REMOTE 1 REMOTE PAGE ZONE ASSIGN WIRING Z1 Z2 INPUT 1 PAGING INPUTS PAGE 2 TRIM PAGE 1 TRIM L L R 2 20 +20 20 RANE CORP. MADE IN U.S.A. ACN 001 345 482 D1 D0 Z1 PGM ZONE PAGE ZONE PAGE Z1 LEVEL 2 1 PGM PGM Vr Vc Z1 EXPAND Z1 RIGHT + + Z1 LEFT + THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. 1&2 R 3 2 R 1 +30 +60 PRIORITY PAGE 2 PAGE 1 DETECT THRESHOLD OL +30 MIC +60 REMOTE 2 Z2 Z1 INPUT 2 + MIC LINE LINE CP 64S Commercial Processor ···· 4 Stereo line inputs with priority and adjustable page ducking depth. 4-level priority; 2 expand outputs can select page-only, program-only or zone. 2 Mic/line page inputs independently assignable to 1 mono & 1 mono/stereo zone.

Each Zone has independent 7-band EQ; Optional EQ-only security cover (SCP2S). Optional Remotes: for page assign (PR 2); for source selection & volume (ZR 1) SCP2S EQ Security Cover 8 PR 2 Paging Remote ZR 1 Zone Remote CP 52S EQUIPMENT 24TJ 100-240 V 50/60 Hz 12 WATTS R COMMERCIAL AUDIO ZONE REMOTE ZONE OUTPUT EXPAND OUTPUT THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. PROGRAM INPUTS L L PAGING INPUT PROGRAM D1 D0 LEVEL MIN MAX Vr Vc RIGHT + + LEFT MONO EXPAND + SOURCE LEVEL RELEASE DETECT THRESHOLD PAGE LEVEL TRACKS ZONE LEVEL OFF ON LOW / HIGH CUT FILTER OUT IN 100 Hz / 7 kHz MIC PHANTOM POWER OFF +15V ON INPUT + 5 ACN 001 345 482 SEC 20 R OFF ON R 3 2 1 ZONE PAGE D1 D0 Vr Vc + + + PROGRAM RANE CORP. MADE IN U.S.A. PRIORITY + CP 52S Commercial Processor ···· Mic/line page input assignable to 1 stereo (with mono switch) zone with 7-band EQ. Security Cover 4 Stereo line inputs with priority and adjustable page ducking depth. 3-level priority; Expand output selectable as page-only, program-only or zone. Optional Remote: for source selection & volume (ZR 1); Optional EQ-only security cover (SCP1S).

ZR 1 Zone SCP1S EQ Remote All Remotes fit in standard US electrical boxes, and may be finished with a Decora™ plate cover (not included). PRIORITY GAIN DETECT DUCKER TARGET LEVEL RATIO AGC CROSSOVER FREQUENCY OUTPUTS 1 -12 +12 -12 2 +12 -12 3 +12 -12 4 +12 -12 5 +12 -12 6 +12 POWER DA 26S MIN MAX OL ON +4 dBu ACTIVE -80 dB 0 -12 +12 dBu 1:1 :1 SLOW FAST -12 -6 -3 GAIN 0 3 6 12 DISTRIBUTION PROCESSOR 80 110 150 200 FULL HIGH LOW FULL HIGH LOW FULL HIGH LOW FULL HIGH LOW FULL HIGH LOW DA 26S 100-240 V 50/60 Hz 7 WATTS COMMERCIAL AUDIO EQUIPMENT 24TJ THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. RMT R 6 + OUT - RMT Vr Vc 5 + OUT - RMT Vr Vc 4 + OUT - RMT Vr Vc 3 + OUT - RMT Vr Vc 2 + OUT - RMT Vr Vc 1 + OUT - LINE INPUT + - PRIORITY ASSIGN Z1 Z2 Z3 Z4 Z5 Z6 ALL LINE PRIORITY INPUT + - Vr Vc MIC MADE IN U.S.A.

RANE CORP. ACN 001 345 482 Vr Vc + - Vr Vc + - Vr Vc + - Vr Vc + - Vr Vc + - Vr Vc + - - Z1 Z2 Z3 Z4 Z5 Z6 ALL + - DA 26S Distribution Processor with Paging ···· Balanced line input, Priority mic/line paging input with adjustable Gating and Ducking. 6 outputs with automatic gain control; 24 dB Crossover assignable to any output. Balanced Euroblock connectors for audio and remote connections. Optional Remotes: for volume presets (LRS 4) or volume control (VR 1).

LRS 4 Level Recall Switch VR 1 Volume Remote Distribution Amplifier DA 216S 100-240 V 50/60 Hz 7 WATTS 16 + COMMERCIAL AUDIO EQUIPMENT 24TJ +- 15 12 + - +- 11 8 +- +- 7 4 +- +- 3 INPUT INPUT RANE CORP. MADE IN U.S.A. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. B +- A +- R GAIN PAD 60 MIC 40 LINE 20 0 dB INPUT GAIN PAD 60 MIC 40 LINE 20 0 dB INPUT PHANTOM POWER 15V ACN 001 345 482 14 + - +- 13 10 + - +- 9 6 +- +- 5 2 +- +- 1 +- +- B A DA 216S Distribution Amplifier ···· 2 balanced mic/line inputs, 16 balanced outputs individually assignable to A, B, or both. Broad gain range with mic or line inputs. Switchable 15V phantom power works with most common condenser mics. Balanced Euroblock connectors; Internal universal power supply (100-240 VAC).

Stereo Line Mixers 9 SM 26S 100-240 V 50/60 Hz 7 WATTS COMMERCIAL AUDIO EQUIPMENT 24TJ LEFT THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. LEFT ALL INPUTS AND OUTPUTS ARE BALANCED -- TIP=POS(+) RING=NEG() SLEEVE=CHASSIS GROUND R 6 RIGHT 5 4 3 2 1 RIGHT 6 5 4 3 2 1 ACN 001 345 482 RANE CORP. MADE IN U.S.A. MIX OUTPUT MONO OUTPUTS EXPAND OUT MASTER IN MONO INPUTS SM 26S Line Splitter / Mixer ···· Combination 6 x 2 line mixer, 2 x 6 line splitter, or 6 x 6 line driver. Capable of 4-pair stereo line splitting or mixing. Mix, pan and level controls with 12 dB gain for level matching. Balanced 1/4" TRS connectors; Internal Universal Power Supply (100-240 VAC). SM 82S 100-240 V 50/60 Hz 7 WATTS COMMERCIAL AUDIO EQUIPMENT 24TJ LEFT MAIN EXPAND OUTPUT UNBALANCED RANE CORP.

MADE IN U.S.A. LEFT (MONO) LEFT (MONO) LEFT (MONO) LEFT (MONO) LEFT (MONO) LEFT (MONO) LEFT (MONO) LEFT (MONO) LEFT (MONO) ALL INPUTS ARE UNBALANCED MAIN EXPAND INPUT LOOP EXPAND INPUT R OUTPUT BALANCED LOOP RETURN UNBALANCED LOOP SEND UNBALANCED 8 RIGHT 7 RIGHT 6 RIGHT 5 RIGHT 4 RIGHT 3 RIGHT 2 RIGHT 1 RIGHT RIGHT ACN 001 345 482 TIP=L, RING=R LEFT (MONO) RIGHT LEFT (MONO) RIGHT TIP=L, RING=R SM 82S Stereo Line Mixer ···· 8 stereo (16 mono) line inputs in a single rack space.



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Can accept up to 10 stereo inputs using Expand In and Effects Return.

Level, stereo balance (mono pan) and stereo send controls for each input. Stereo expand in and out to additional mixers, stereo effects loop with return level and balance controls. Unbalanced 1/4" TS inputs, balanced 1/4" TRS outputs. Internal universal power supply (100-240 VAC). Mic / Line Mixers MADE IN U.S.A.

S.A. RANE CORP. 100-240 V 50/60 Hz 7 WATTS MLM 42S COMMERCIAL AUDIO EQUIPMENT 24TJ R OUTPUT THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. EFFECTS A INPUTS 4 RETURN SEND GAIN 3 GAIN 2 GAIN 1 GAIN B UNBALANCED UNBALANCED ACN 001 345 482 BALANCED LINE MIC BALANCED LINE OR ON MIC PHANTOM POWER BALANCED LINE OR ON MIC PHANTOM POWER BALANCED LINE OR ON MIC PHANTOM POWER BALANCED LINE OR ON MIC PHANTOM POWER MLM 42S Mic / Line Mixer 4 inputs with automatic recognition of mic or line level signals 3-band Accelerated Slope™ (off to +6 dB) tone controls, gain trims and selectable phantom power on each input. Post-mix 1/4" Effects loop with Wet/Dry pan control. RCA unbalanced outputs; XLR and TRS balanced outputs are mic or line level selectable; Internal universal power supply. 10 MLM 65 MADE IN U.S.A.

RANE CORP. MIC 6 GAIN PHANTOM POWER MIC GAIN MIC 5 GAIN PHANTOM POWER MIC MIC 4 GAIN PHANTOM POWER MIC MIC 3 GAIN PHANTOM POWER MIC MIC 2 GAIN PHANTOM POWER MIC MIC 1 PHANTOM POWER MIC OL 12V LINE OL 12V LINE OL 12V LINE OL 12V LINE OL 12V LINE OL AVIS Risque de choc electique -- Ne pas ouvrir 12V LINE PIN 2: POSITIVE PIN 3: NEGATIVE PIN 1: CHASSIS GND ACN 001 345 482 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. WARNING To reduce the risk of fire or electrical shock do not expose this equipment to rain or moisture. Do not remove cover. No user serviceable parts inside. Refer servicing to qualified personnel. DIGITAL OUTPUTS USB AUDIO IN / OUT S/PDIF TOSLINK MAIN OUTPUT RIGHT LEFT RECORD OUT AUX 5 IN AUX 4 IN LINE AUX 3 IN AUX 2 IN AUX 1 IN USB CHARGE ONLY 5 VDC @ 500 mA 0 0 MONO 12 100-240 V 50/60 Hz 15 WATTS CLASS 2 WIRING PHONO 0 0 0 0 12 +12 12 +12 12 +12 12 +12 12 +12 MLM 65 Mic / Line Mixer 6 studio-grade mic or line-level preamplifiers with phantom power and gain trim. 5 switchable stereo line-level inputs, one with a switchable phono preamp, one with a 3.5 mm jack and USB power for portables.

USB stereo audio input for computer playback, with simultaneous USB stereo audio output for recording to a computer. Cue any Input or the Main output to Headphones with either a 1/4" or 3.5 mm headphone jack. Outputs include balanced XLR with a mono switch, unbalanced RCA, USB audio, S/PDIF and TOSLINK. The AM1 and AM2 Automixers also mix mic and line inputs in expandable configurations.

See them on page 3. Mic / Line Mixers MADE IN U.S.A. RANE CORP.

100-240 V 50/60 Hz 7 WATTS MLM 82S COMMERCIAL AUDIO EQUIPMENT 24TJ R BALANCED: PIN 3 = (), PIN 2 = (+), PIN 1 = (G) B A A A A A THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. 8 B 7 B 6 B 5 B 4 LINE 3 LINE 2 LINE 1 LINE 15V PHANTOM POWER ACN 001 345 482 OUTPUTS LINE INPUTS MIC / LINE INPUTS MLM 82S Mic / Line Mixer 8 inputs, 2 outputs 4 balanced mic/line inputs, 4 balanced/unbalanced stereo or mono line inputs. Mic inputs have switchable phantom power, mic/line level, and output assignable. Outputs individually switchable to mic-level, line-level, stereo or mono. Balanced XLR mic/line inputs, 1/4" TRS line stereo/mono inputs, XLR outputs. Internal universal power supply (100-240 VAC). 11 MLM 103 MADE IN U.S.A. RANE CORP.

ACN 001 345 482 TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL. WARNING RISQUE DE CHOC ELECTRIQUE -- NE PAS OUVRIR AVIS STEREO LINE INPUTS 10 + + MIC/LINE INPUTS 7 6 PHANTOM POWER TRIM LINE 0-12 dB MIC 15-60 dB + + TRIM LINE 0-12 dB MIC 15-60 dB 9 + 8 + 5 PHANTOM POWER TRIM LINE 0-12 dB MIC 15-60 dB 4 + + 3 PHANTOM POWER TRIM LINE 0-12 dB MIC 15-60 dB TRIM LINE 0-12 dB MIC 15-60 dB 2 + + 1 + + + + + + + + + + TRIM LINE 0-12 dB MIC 15-60 dB OUTPUTS 100-240 V 50/60 Hz 20 WATTS ALL AUDIO IS CLASS 2 WIRING DIRECT OUTPUTS 4 3 + PRE MIX LEVEL AUX + B + + A 6 PRE MIX + LEVEL + 5 PRE MIX LEVEL 2 PRE MIX + LEVEL + 1 PRE MIX LEVEL PRE MIX + LEVEL + + + + + + + + + + MLM 103 Mic / Line Mixer 6 studio-grade mic or line-level preamplifiers with phantom power. 2 additional stereo line-level inputs with mono switches. All inputs have 3 assignable outs; Mic inputs have direct outs with pre/post switches. Euroblock inputs and outputs; Internal universal power supply (100-240 VAC); Includes security cover (below). Includes security cover for Input EQ and Assign switches Mic Preamplifiers ML 1 1 2 1 2 MIC / LINE PREAMP SIGNAL OVERLOAD POWER ML 1 100-240 V 50/60 Hz 7 WATTS COMMERCIAL AUDIO EQUIPMENT 24TJ DIGITAL OUTPUTS AES3 S/PDIF 2 OUTPUTS 1 2 GAIN 1 MIC LINE MIC LINE 2 INPUTS 1 THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES FOR A CLASS 'B' COMPUTING DEVICE. R 2 2 1 +- 1 +- 2 +- 1 +- 48V SIGNAL RANE CORP.

MADE IN U.S.A. ACN 001 345 482 COAXIAL OPTICAL OVERLOAD +- +- +- +- SIGNAL PHANTOM POWER ML 1 Mic / Line Preamp · Two separate mic / line inputs; Balanced analog outputs on XLR and Euroblocks; AES3, S/PDIF coaxial and optical digital outputs. · Rear panel gain trims with included security cover; Extremely low noise; Internal universal power supply (100-240 VAC).

12 NM 1 Network Mic Preamp Microphone Preamp with 48V phantom power puts audio over CobraNet. Power Over Ethernet (PoE); 1.



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7"H x 7.2"W x 4.9"D box.

SNMP software-controlled preamp gain. Audio power amplifier for loudspeaker. Switch / LED interface. Selectable address. Connectors L to R: CobraNet Primary; Activity/Conductor LEDs; CobraNet Secondary; Switches/Lights; Speaker Output; Mic Input. MS 1S Microphone Preamp · Ultra low-noise, low distortion preamp with a variable Gain control. · 48 volt Phantom Power switch; Phase Polarity switch. · Balanced XLR input and output; Internal universal power supply (100-240 VAC). Dynamic Control C4 Quad Compressor / Limiter / Dynamic EQ · Independent Compressor, Dynamic EQ and Limiter per channel; Auto mode for fast setup of Attack and Release.

· External side-chain includes a parametric EQ with Compress, Dynamic EQ and Listen modes. · Independent Metering: Side-chain level, Threshold indicator, Gain reduction & Limiter headroom. 13 The G4 has the same rear panel connections and appearance as the C4. G4 Quad Gate / Ducker / Expander · Independent Quad Gate / Expander / Ducker with look-ahead peak detector; Expand mode uses rms detection. · Side chain switch selects external input or internal High & Low Cut Filters; Side-chain metering. · DSP with familiar analog controls; Balanced 1/4" TRS & XLR connectors. COMMERCIAL AUDIO EQUIPMENT 24TJ MADE IN U.S.A. RANE CORP.

DC 22S WIRING 3-PIN XLR: · PIN 2 = (+), · PIN 3 = (-), · PIN 1 = CHASSIS (SHIELD) OUTPUT INPUT OUTPUT This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. INPUT 2 -10 dBV +4 dBu 1 -10 dBV +4 dBu R 1/4" PHONE, BALANCED: ACN 001 345 482 · TIP = (+), · RING = (-), · SLEEVE = CHASSIS (SHIELD) 100-240 V 50/60 Hz 7 WATTS 1/4" PHONE, UNBALANCED: · SEE THE RANENOTE: SOUND SYSTEM INTERCONNECTION BALANCED BAL/UNBAL BALANCED BAL/UNBAL BALANCED BAL/UNBAL BALANCED BAL/UNBAL DC 22S Stereo Gate / Compressor · Two independent gates and compressors with output level controls; Gate acts as a downward expander, so quiet parts get quieter. · True master/slave operation in Link mode for stereo program compression without image shifts. · Balanced 1/4" TRS & XLR connectors; Internal universal power supply (100-240 VAC).

The RPM Series of Multiprocessors also contain compressors, limiters and gates. See them on pages 4-6 Equalizers 100-240 V 50/60 Hz 7 WATTS COMMERCIAL AUDIO EQUIPMENT 24TJ MADE IN U.S.A. RANE CORP.

ME 15S CHANNEL 2 OUTPUT INPUT WIRING TIP / PIN 2 = POSITIVE RING / PIN 3 = NEGATIVE SLEEVE = SIGNAL GROUND PIN 1 = CHASSIS GROUND ALL AUDIO IS CLASS 2 WIRING R ACN 001 345 482 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. CHANNEL 1 OUTPUT INPUT ME 15S Stereo 2/3Octave microGraphic Equalizer · · · · Proven constant-Q filters for precise feedback control and reduced interaction. ±6 or ±12 dB boost/cut range switchable; 20 mm sliders with grounded center detents and dust dams. Input level controls; Overload indicators; Bypass switches. Balanced XLR and 1/4" TRS connectors; Internal universal power supply (100-240 VAC). 100-240 V 50/60 Hz 7 WATTS COMMERCIAL AUDIO EQUIPMENT 24TJ R This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. MADE IN U.S.

A. RANE CORP. ME 30S WIRING TIP / PIN 2 = POSITIVE RING / PIN 3 = NEGATIVE SLEEVE = SIGNAL GROUND PIN 1 = CHASSIS GROUND OUTPUT INPUT CLASS 2 WIRING ACN 001 345 482 ME 30S Mono 1/3Octave microGraphic Equalizer · · · · Proven constant-Q filters for precise feedback control and reduced interaction. ±6 or ±12 dB boost/cut range switchable; 20 mm sliders with grounded center detents and dust dams. Input level control; Overload indicator; Bypass switch. Balanced XLR and 1/4" TRS connectors; Internal universal power supply (100-240 VAC). 14 MADE IN U.S.A. RANE CORP.

ME 60S CHANNEL 1 COMMERCIAL AUDIO EQUIPMENT 24TJ OUTPUT This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. INPUT R 100-240 V 50/60 Hz 12 WATTS TIP / PIN 2 = POSITIVE RING / PIN 3 = NEGATIVE SLEEVE = SIGNAL GROUND PIN 1 = CHASSIS GROUND WIRING CLASS 2 WIRING ACN 001 345 482 CHANNEL 2 OUTPUT INPUT ME 60S Stereo 1/3Octave microGraphic Equalizer · · · · 2 channels x 30 bands of constant-Q filters; Sweepable high-cut and low-cut filters. ±6 or ±12 dB boost/cut range switchable; 20 mm sliders with grounded center detents and dust dams. Input level controls; Overload indicators; Bypass switches. Balanced XLR and 1/4" TRS connectors; Internal universal power supply (100-240 VAC). Equalizers OUTPUT B OUTPUT A INPUT B INPUT A DEQ 60L MADE IN U.S.A. RANE CORP.

TIP / PIN 2 = POSITIVE RING / PIN 3 = NEGATIVE SLEEVE = SIGNAL GROUND PIN 1 = CHASSIS GROUND WIRING +- +- +- +- ACN 001 345 482 U.S. PATENT 7,266,205 +- +- +- +- FOR CONTINUED GROUNDING PROTECTION DO NOT REMOVE SCREW COMMERCIAL AUDIO EQUIPMENT 24TJ BYPASS ALL FILTERS R 100-240V 50/60 Hz 20 WATTS This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. DEQ 60L Stereo 1/3Octave Graphic Equalizer · · · · · 2 x 30 bands of switchable Perfect-Q (no filter interaction, true WYSIWYG) or Proportional-Q (broad adjustment) digital filters. 45 mm sliders with switchable ±6 or ±12 dB boost/cut range each channel; Switchable high-resolution -12 dB Cut-Only mode. Input and Output Level controls; Input and Output meters; Channel Bypass switches. Sweepable high-cut and low-cut filters; Separate Accelerated-Slope™ Low / Mid / High full-cut Tone controls. A/B curve comparison switches provide stereo linking with two memories; Balanced XLR, TRS and Euroblock connectors.



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"Perfect-QTM, the Next Step in Graphic EQ Design" RaneNote is available at www.rane.com.

The RPM Series of Drag Net Multiprocessors also contain graphic equalizers with Perfect-Q. See them on pages 5-7. 15 Delay COMMERCIAL AUDIO EQUIPMENT 24TJ AD 22S MADE IN U.S.A. RANE CORP. R ACN 001 345 482 100-240 V 50/60 Hz 7 WATTS This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FRONT PANEL CONTROL LOCKS DELAY BYPASS CH 2 REMOTE BYPASS RECALL CH 1 REMOTE BYPASS RECALL CH REMOTE WIRING CH 2 OUTPUT CH 2 INPUT CH 1 OUTPUT CH 1 INPUT USB OPEN RECALLS "A" CLOSED RECALLS "B" CLOSED = BYPASS CH PIN 2: POSITIVE PIN 3: NEGATIVE PIN 1: CHASSIS GND AD 22S Dual Channel Audio Delay · 2 independent channels, 1.50 to 999.99 ms delay range per channel, adjustable in 10 µs and 1 ms increments. · Displays and converts between milliseconds, feet, and meters. · 2 memories; Remote contact closure memory recall with switchable front panel lockout; Fail-safe bypass for each channel.

The RPM Series of Drag Net Multiprocessors also contain digital delays. See them on pages 5-7. Crossovers COMMERCIAL AUDIO 100-240 V EQUIPMENT 24TJ 50/60 Hz 7 WATTS R MADE IN U.S.A.

RANE CORP. AC 22S HIGH OUT LOW OUT CH 2 IN STEREO 2-WAY HIGH OUT LOW OUT CH 1 IN This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. SUBWOOFER SWITCH MUST BE SET TO 2- CHANNEL FOR MONO 3-WAY PIN 2: POSITIVE PIN 3: NEGATIVE PIN 1: CHASSIS GND ACN 001 345 482 MODE MONO SUB: OMIT SUBWOOFER MONO SUB 2-CHANNEL OMIT MONO HIGH OUT MID OUT OMIT MONO MONO 3-WAY MONO SUB OUT LOW OUT MONO 3-WAY IN AC 22S Active Crossover · Stereo 2-way or Mono 3-way configurable; Master input level and individual driver output level controls with mute switches. · 24 dB per octave Linkwitz-Riley filters with adjustable driver alignment delays guarantee in-phase outputs. · Balanced XLR connectors; Internal universal power supply (100-240 VAC). 100-240 V 50/60 Hz 7 WATTS COMMERCIAL AUDIO EQUIPMENT 24TJ MADE IN U.S.A. RANE CORP.

AC 23S PIN 2: POSITIVE PIN 3: NEGATIVE PIN 1: CHASSIS GND HIGH OUT 3W: MID OUT 2W: LOW 3W: LOW OUT 2W: OMIT CHANNEL 2 IN STEREO 3W / 2W SET TO 5W CHANNEL 2 STEREO 3W 2W STEREO CHANNEL 1 STEREO 3W 2W HIGH OUT 3W: MID OUT 2W: LOW 3W: LOW OUT 2W: OMIT CHANNEL 1 IN R ACN 001 345 482 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. MONO 4W 5W HIGH OUT 5W: HIGH MID OUT 4W: OMIT LOW OUT MONO: OMIT MONO: SET SWITCHES AS SHOWN MONO: OMIT MID OUT SUB OUT MONO 4W / 5W IN AC 23S Active Crossover · Stereo 2-way or 3-way or mono 4-way or 5-way configurable; Master input level; Driver output level controls with mute switches. · 24 dB per octave Linkwitz-Riley filters with adjustable driver alignment delays guarantee in-phase outputs. · Balanced XLR connectors; Internal universal power supply (100-240 VAC). The RPM Series of Drag Net Multiprocessors also contain crossovers. See them on pages 5-7. 16 Headphone Amplifier COMMERCIAL AUDIO 100-240 V 50/60 Hz 12 WATTS EQUIPMENT 24TJ R MASTER INPUTS RIGHT LEFT 6 IN OUT IN 5 OUT IN 4 OUT IN 3 OUT IN 2 OUT IN 1 OUT MADE IN U.S.A.

RANE CORP. HC 6S BALANCED TIP = POSITIVE (+), RING = NEGATIVE (-), SLEEVE = SHIELD UNBALANCED LINE INPUTS: TIP = LEFT, RING = RIGHT, SLEEVE = GROUND ALL AUDIO JACKS ARE CLASS 2 WIRING This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. ACN 001 345 482 HC 6S Six Channel Headphone Console · · · Six stereo amplifiers with both master and individual level controls. Each stage can be driven from the master stereo input or individual channel inputs.

Drives stereo 1/4" headphone outputs on both front and rear panels. Balanced 1/4" TRS inputs; Internal universal power supply (100-240 VAC) Personal Monitor Processor MM 42 Personal Monitor Processor · · · Process a single stereo or two independent mono in-ear mixes; Pre- or post-processing monitoring. 4 independent and mixable line inputs, 2 outputs plus crossover to a sub or tactile transducer output. Independent High/Low/Shelf/Cut Filters, 3-band rms Compressor, 5-band Parametric EQ, 3-band Peak Limiter on each mix. 16 user-programmable nameable memories with MIDI recall; Cue outputs; Direct outputs; Cue bus to other MM 42's.

Sound System Setup RaneGain Setup Tool · 400 Hz sine wave generator and matching piezo transducer. · Helps to set optimum levels through the entire audio system signal path. · See the RaneNote "Setting Sound System Level Controls" at www.rane.com/note135.html. Isolation & Balancing Transformers 12 +4 dBu INPUTS BALANCED WIRING: PIN 2 = POSITIVE PIN 3 = NEGATIVE PIN 1 = CHASSIS GROUND 1 -10 dBV OUT 3 -10 dBV IN 34 +4 dBu OUTPUTS MADE IN U.S.A. RANE CORP.

BB 44X 56 +4 dBu INPUTS 5 -10 dBV OUT 7 -10 dBV IN 78 +4 dBu OUTPUTS BALANCED 2 UNBALANCED 4 BALANCED ACN 001 345 482 BALANCED 6 UNBALANCED 8 BALANCED BB 44X Balance Buddy · 2 channels: +4 dBu balanced to -10 dBV unbalanced (XLR to RCA). · 2 channels: -10 dBV unbalanced to +4 dBu balanced (RCA to XLR). · No front panel controls; Nickel-core transformers; Expandable to 8 channels with Option 88 Accessory (above). 17 BB 22 Balance Buddy · 2 channels: -10 dBV (RCA) to +4 dBu (XLR) conversion. · Nickel core transformers; No power supply required. · Wide bandwidth; Low distortion. LT 22 Line Transformers · 2 channels 1:1; Balanced Euroblock connectors. · Nickel core transformers; No power supply required. · Wide bandwidth; Low distortion. Multichannel Amplifiers MADE IN U.S.A.

S.A. RANE CORP. ACN 001 345 482 MA 3 WARNING TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.



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DO NOT REMOVE COVER.

NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL. OUTPUT POWER PER CHANNEL 40 WATTS / 8 60 WATTS / 4 AVIS RISQUE DE CHOC ELECTRIQUE -- NE PAS OUVRIR OUTPUTS CH 3 +- INPUTS CH 1 +- CH 2 +- CHANNEL 3 +0 10 CHANNEL 2 +0 10 CHANNEL 1 +0 10 COMMERCIAL AUDIO EQUIPMENT 24TJ 12-18 AWG -- USE CLASS 2 WIRING R 120 V 50/60 Hz 360 WATTS +- +- +- +- LEVEL +- LEVEL +- LEVEL MA 3 Multichannel Amplifier . . . 3 independent channels @ 40 W rms into 8; 60 W rms into 4, 20 Hz-20 kHz all channels, all day. Dynamic limiters handle 20 dB of overdrive; 80 Hz high-pass filter selection; Sealed heat tunnel forced-air cooling. Balanced Euroblock inputs; Euroblock speaker connectors handle up to 12 gauge wire.

Optional distribution transformers: 40 W 70.7 V (model TF 407) or 40 W 100 V (model TF 410) mount on MT 6 rack panel (2U). MADE IN U.S.A. RANE CORP. MA 4 COMMERCIAL AUDIO EQUIPMENT 24TJ 4 R INT EXT 3 Class 2 Wiring INT EXT INT EXT OUTPUTS 2 1 INT EXT ACN 001 345 482 LOAD LOAD LOAD LOAD 4 FAULT FLAG Active Low 321 +++++ +++++ HIGH-PASS 20Hz 40Hz 60Hz 80Hz MASTER COMP SLAVE ON ON ON MODE INPUTS 4 Vr Vc REMOTE LEVEL 3 2 Use Rane VR 2 or 20 k pot Vr Vc Vr Vc 1 Vr Vc 4 SENSITIVITY 3 SENSITIVITY 13 2 SENSITIVITY 13 1 SENSITIVITY 13 + + + + + 4 13 22 100-240V 50/60 Hz 500 WATTS FOR CONTINUED GROUNDING PROTECTION DO NOT REMOVE THIS SCREW. 1 2 3 4 1 2 3 4 22 22 22 4 dBu Vr Vc Vr Vc Vr Vc Vr Vc dBu dBu dBu +++++ +++++ 4 3 2 1 1 2 3 4 EXP ON + + + + MA 4 Multichannel Amplifier . . . 4 independent channels @ 100 W rms into 8 or 4 , with built-in load monitoring, in just one rack space. Universal voltage, power-factor-corrected power supply with low inrush current. Advanced dynamics control adjusts for sensitivity setting, temperature & load Z.

Remote fault reporting & redundancy switching; Adjustable high-pass filters; Optional remote level controls. VR 2 Volume Remote MULTICHANNEL TRANSFORMER MT 4 18 MT 4 MADE IN U.S.A. RANE CORP. IN + 4 OUT IN + 100V 70V COM 3 OUT IN + 100V 70V COM 2 OUT IN + 100V 70V COM 1 OUT 100V 70V COM + 100V 70V COM IN OUT + 100V 70V COM IN OUT + 100V 70V COM IN OUT + 100V 70V COM IN OUT MT 4 Multichannel Transformer · 4-channel 70.7/100 volt transformers for the MA 4 in a 1U rack chassis. · Input 8, 100 watts; Euroblock strain-relief connectors; Frequency response 40 Hz to 20 kHz +0, -1 dB · Separate mounting tray and individual transformers available: KT 4 rackmount tray only; TF 4 individual transformers Rackmount DJ Mixer MP 2S Compact DJ Mixer The MP 2S is the answer anywhere rack space is a premium or mobility is a must: Mobile DJ, remote broadcasting or post production. · 2 Phono/Line and 2 Line (total of 4) inputs to 2 crossfader buses, each with its own ±12 dB Low and High tone controls. · Each Program bus selects any of the four stereo Inputs, so any Input can appear on either side of the Crossfader. · Long-lasting 60 mm VCA Active Crossfader™ · Versatile and easy headphone cueing. · Balanced 1/4" TRS Mic Input with front panel volume control. · RCA Tape outputs are switchable Pre- or Post Mic. · House and Aux are balanced 1/4" TRS outputs. · Internal 100-240 VAC power supply works anywhere in the world.

· Unit size: 1.75"H x 19"W x 5.3"D (4.4 cm x 48.3 cm x 13.

5 cm) EXAMPLE SySTEM LEFT MAIN RIGHT MAIN LEFT AUX or BOOTH RIGHT AUX or BOOTH COMPUTER AUDIO INPUT, TAPE RECORDER, ETC. RACK DUAL CD PHONO 2 PHONO 1 MP 2S MIXER 100-240 V 50/60 Hz 7 WATTS MIC This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. 19 MP 2S COMMERCIAL AUDIO EQUIPMENT 24TJ HOUSE BALANCED OUTPUTS: TIP = , RING = AUX , SLEEVE = SIGNAL GROUND L R MIC TO TAPE NO YES L PHONO GROUND L R P2 LINE PHONO BALANCED MIC INPUT R ACN 001 345 482 LEVEL RIGHT LEFT RIGHT LEFT R L2 L1 RANE CORP. MADE IN U.S.A. TAPE OUTPUT P1 LINE PHONO MIC Club DJ Mixers MIC 2 MP 2016S MADE IN U.S.A.

RANE CORP. U.S. PATENT 7,043,032 MIC 1 BASS TREBLE 0 0 BASS 0 TREBLE 0 4 L 3 INPUTS L R 2 L R 1 L R LINE PHONO GAIN MIC LINE -12 GAIN MIC LINE R -12 ACN 001 345 482 +12 -12 +12 +12 -12 +12 XLR WIRING PIN 2 = POSITIVE PIN 3 = NEGATIVE PIN 1 = CHASSIS GROUND COMMERCIAL AUDIO EQUIPMENT 24TJ This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. -- PHONO GROUND -- R HOUSE OUTPUTS RIGHT LEFT BOOTH OUTPUTS EFFECTS LOOP RETURN L SEND TAPE OUTPUTS POST PRE EFFECTS EFFECTS LEVEL XP 2016S EXTERNAL PROCESSOR AUX INPUTS 5 L R 4 L R 3 L R 2 L R 1 L R 100-240 V 50/60 Hz 12 WATTS LEFT L R R L R RIGHT MP 2016S Rotary Mixer · 6 stereo input buses with 4 phono preamps, 2 mic/line preamps and 5 aux line inputs. @@The headphone amplifier features split master/cueing. · The Booth output is switchable master or cue. @@@@RANE CORP. U.

S. @@ -Adds Accelerated Slope™ 3-band tone control to each input bus. · Master/cue meters follow the headphone split cue selection.

· Singleribbon cable connects XP 2016S to MP 2016S (included). @@@@DO NOT REMOVE COVER.

NO USER SERVICEABLE PARTS INSIDE. @@The TTM 56S is flexible, durable, and feature packed. @@· Mic input with EQ and mic effects loop. · Faders and Crossfader have Contour and Reverse controls. · Stereo Aux Input for session mix, iPod® or keyboard. · Stereo Aux Output for session mix, booth or recording. @@@@· Both 1/4" and 3.5 mm headphone jacks are on the front. · Transform switches are now Kill switches. · Operation is simplified by putting all the controls on top. @@@@Unlike optical non-contact faders, the magnetic fader is impervious to smoke, moisture, temperature and age. The electrical performance is unaffected by use. No noise, no bleed -- ever! 4 turntables, 4 CD decks or any combination. 22 Empath mixers combine the vision of Grandmaster Flash and Rane technology.



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The name implies understanding, awareness and sensitivity to the needs of DJs.

The top plate is durable Lexan™ available in four different colors, and all have these features: · 3 phono/line switchable inputs plus a mic input and a stereo Aux input. · 3 mixing buses, each with 3-band Accelerated Slope™ full-cut EQ (+6 dB to off). · Switchable Auto-Gain prevents program level jumps when changing sources. · Post-fader FlexFX™ lets external reverb and echo decay tails respond to fader action. · Contour controls for Fader 1, Fader 3 and the Crossfader. · Headphone outputs include tone controls with both 1/4" & 3.5 mm jacks. · Universal internal power supply works anywhere in the world (100-240 VAC). · Unit size: 13.3"H x 10"W x 3"D (33.

8 cm x 25.4 cm x 7.7 cm) Empath Blue · Original blue and silver Lexan finish. Empath Black · Black Lexan finish. Empath Rotary · Black Lexan finish. · Rotary channel faders. Empath Signature · Black and gold Lexan finish. · Signature by Grandmaster Flash. · Includes deluxe road case. 23 Rane SixtyEight Club Mixer for Serato Scratch Live Two COMPuTERS, Two uSB PORTS, uP TO FOuR DECKs AND A RANGE OF EFFECTS.

Introducing the first Scratch Live compatible DJ mixer that allows two computers to be connected simultaneously. Using two USB ports, the Sixty-Eight mixer lets two DJs play Scratch Live at the same time, allowing for seamless handover from one DJ to another. You can also control up to four decks with a single laptop. Armed with studio-grade phono preamps, USB and S/PDIF inputs, the Sixty-Eight can allow a blend of analog and digital audio sources like never before. It features easy internal digital effects with on-beat effect switching, external analog insert support for legacy hardware effects, and USB insert support for computer-based effects. · Two independent USB 2.0 high speed ports, each supporting 22 floating point 32-bit audio channels at 48 kHz. · Direct control of over 30 Library, Cue and Loop functions. · Support for two, three or four Virtual Decks in Scratch Live. · Flexible USB recording options, record from any input or output.

· 3-band, full cut EQ with new High-pass / Low pass Filter. · Unique FlexFX bus with six internal effects plus USB and analog insert support for computer-based effects. · Input Channels: · Four stereo Phono / CD inputs of Phono / Line or S/PDIF. · Four stereo Auxiliary inputs. · Four stereo USB playback options. · Two independent microphone inputs: one with phantom power and one with line-level input switches. 24 SIXTYEIGHT MIXER CONTROLS Mic 1 allows +48 volt switchable phantom power. Mic 2 allows switchable Mic or Line-level input. Both Mics have 2-band full-cut tone controls. Either Mic can route to FlexFX or record to USB.

The outer strips directly control Serato Scratch Live functions such as Cue Points, Loops, Track Library, and recalling custom Groups. In Auto mode, Loop buttons use the Scratch Live autoloop, lighting the buttons green. In Manual mode, Loop buttons use manual looping features, lighting the buttons orange.

Select knob adjusts the loop length. FlexFX are stackable: · Six internal effects with seamless on-beat switching between effects.

· External Insert engages the external analog Effects Loop. · 5 Insert engages software effects through USB. Four Program buses, each includes: · Four Phono - Line - S/PDIF Inputs. · Four Aux Line Inputs. · Four USB playback Inputs.

Two USB ports, each with six stereo record channels and five stereo playback channels simultaneously available, allows two DJs with their own laptops to share the mixer. The Control Point button selects the USB port in control of the control strips. PH/CD 2 12 1 2 AUX PH/CD 2 12 1 2 AUX PH/CD 4 34 3 4 AUX PH/CD 4 34 A 3 4 AUX 2 0 10 4 6 8 B LAYER / SHIFT MIC 1 4 2 6 8 0 2 0 1 1 3 3 CONTROL POINT MIC 2 4 6 8 PGM 1 SOURCE 4 2 0 10 6 8 PGM 2 SOURCE 4 2 0 10 6 8 PGM 3 SOURCE 4 2 0 10 6 8 PGM 4 SOURCE 4 2 0 10 6 8 MAIN LEVEL OL +6 +3 0 -3 -6 -12 -18 BACK SCROLL LEVEL 10 LEVEL 10 BACK SCROLL Back buttons shift between crates & tracks. Scroll knob scrolls crates & tracks, click it to load the track to a deck. Program buses include 3-band full-cut tone controls plus sweepable Low-pass / Highpass cut lters. Level controls on each Output: · Main Output on XLR jacks · Booth Output on 1/4" TRS · Session Output on RCA True Split Cue for any Program bus or the FlexFX submix with effects to the front panel 1/4" and 3.5 mm headphone jacks. LEVEL LEVEL LEVEL LEVEL LOAD A MANUAL AUTO LEFT PAN RIGHT LEFT PAN RIGHT LOAD B MANUAL AUTO OFF OFF +6 OFF +6 HIGH +6 OFF HIGH +6 OFF HIGH +6 OFF HIGH +6 HIGH HIGH LOOPS OFF OFF +6 OFF +6 LOOPS MID +6 OFF MID +6 OFF MID +6 OFF MID +6 MONO SELECT LEFT SELECT IN LOOP OUT ROLL LOOP SAVE LOW LOW FLEXFX FLEXFX OFF LOW +6 OFF LOW +6 OFF LOW +6 OFF LOW +6 BALANCE 4 6 RIGHT IN LOOP 2 8 0 10 6 8 0 4 10 6 8 OUT ROLL LOOP SAVE EXT. INSERT 5 INSERT LOW BOOTH BPM: 120 TIME: 125MS BEAT: 1/4 [-----] FILTER HIGH LOW FILTER HIGH LOW FILTER HIGH LOW FILTER HIGH 2 4 FLEXFX POST POST POST POST A B CROSSFADER DELETE FILTER 1 ECHO ROBOT REVERB CUE 2 BEAT BEAT 10 10 9 8 7 6 5 4 3 2 1 0 10 9 8 7 6 5 4 3 2 1 0 A B CROSSFADER A B CROSSFADER A B CROSSFADER 2 SESSION OUT FLANGER PHASER FLEXFX FLEXFX FLEXFX FLEXFX DELETE SESSION IN 1 0 10 CUE CUE CUE SPLIT CUE 2 10 9 8 7 6 5 4 3 2 1 0 10 9 8 7 6 5 4 3 2 1 0 10 9 8 7 6 5 4 3 2 1 0 10 9 8 7 6 5 4 3 2 1 0 3 9 TIME LEVEL / DEPTH MIN MAX 8 7 6 CUE 4 2 0 PAN MAIN 6 8 10 3 Recall Cue Points with "Hot Cue" behavior supported in Scratch Live. 5 4 4 3 4 TAP 5 FLEXFX ON 2 1 0 LEVEL 5 The FlexFx Loop can create a sub-mix with any combination of the four Program buses and two Mics, and then add internal or external effects.

This submix may be recorded via the USB Send, or output by the analog FlexFx Loop Send. CUE CUE POINTS PGM 1 PGM 2 PGM 3 PGM 4 HEADPHONES CUE POINTS A B SIXTY-EIGHT Controls the level of the FlexFx signal to the Main Mix. Supports 2, 3 or 4 Virtual Decks in Serato Scratch Live on one or two computers. Contour controls adjust faders and the Crossfader for a smooth transistion or a fast cut. The Crossfader is a no-noise, no-bleed magnetic fader. Record to USB from any Program bus, any Mic or the Main Output.



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25 See "Minimum System Requirements for Serato Scratch Live" on page 27. Unit size: 14.3"H x 12"W x 4"D (36.4 cm x 30.5 cm x 10.2 cm) Rane TTM 57SL Performance Mixer for Serato Scratch Live SCRATCH LIVE CONTROL SuRFACE "Soft" controls have multiple functions for controlling Serato Scratch Live from the matched physical controls in the red outlined area on the TTM 57SL. They also assign the internal digital effects when the mixer is operated stand-alone without a computer. Six different preset groups optimize common controls for playback, cue/looping, effects, recording and library, or customize any control with a right-click. See the "Minimum System Requirements for Serato Scratch Live" on the next page. SIMuLTANEOuSLy: · Play a combination of digital and analog sources. · Play two files controlled by vinyl or CD while recording the mix. · Or, digitize two vinyl records or analog sources simultaneously. · Cue both analog and digital sources. · Operate standalone as a no-compromise performance mixer. HARDwARE FEATuRES · 4 switchable phono/line inputs, plus a stereo aux input. · Two input buses, each selects 2 analog & 2 digital sources. · Input Gain, Left / Right Pans, and 3-band full-cut EQ with kills. · Mic input with Level and Tone controls. · Rane's FlexFX effects loop system, plus built-in effects. · Independent Contour & Reverse controls with Channel Swap. · Both 1/4" and 3.5 mm headphone output jacks. · RCA, TRS & XLR outputs, each with dedicated level control. · USB 1.

1 with 8 channels of streaming 16 bit / 44.1 kHz audio. · Programmable foot switch input (up to 3 buttons; not included). · Unit size: 13.3"H x 10"W x 3"D (33.8 cm x 25.4 cm x 7.7 cm) EFFECTS 24-bit effects using Rane and Serato's award-winning studio and Live sound software technologies, with BPM-synched echo, swept filter, flanger, phaser and desecrator effects. MAGNETIC FADERS Rane's patented magnetic faders are the fastest, most accurate, and longest-lasting on the planet. No travel noise or bleed ever! 26 4 turntables or 4 CD decks or any combination.

Serato VideoSL Plugin Video-SL is an optional software plug-in for Scratch Live which adds the ability to play and mix video files. Manage a variety of video clips from within the Scratch Live library and load them onto a virtual deck for control with either vinyl or CD. The controls allow you to mix clips with a variety of transitions, as well as apply exciting effects to each clip. The mixed output is sent to your computer's second display output, connecting to external monitors or projectors. · Add video clips to your Scratch Live performance.

· Use built-in transitions including text and image effects. · Audio Responsive effects let the music control a variety of live video effects, controlled by analyzing the music signal. · Videos can be previewed in the Scratch Live offline player. · MIDI control enables use of 3rd-party controllers with Video-SL. · Effects are stored with each video file for instant recall.

· Linked Audio-Effects that follow Scratch Live's DJ FX and the TTM 57SL's audio effects and does the same thing to the video. · The boxed retail version includes overlays for the TTM 57SL. · Works with the Rane SL 1, SL 3, TTM 57SL and Sixty-Eight. Minimum System Requirements for Serato Scratch Live PLEASE NOTE: These are the minimum requirements to run Scratch Live. For best performance and for use in professional situations we recommend you buy a higher spec computer. We also recommend Intel processors. MAC · 1 GHz G4 · 1 GB RAM* · 1024 x 768 screen resolution · OSX 10.3.9 or higher · Intel Macs require Scratch Live version 1.5 or higher · Available USB port (USB 2.

0 required for SL 3 and Sixty-Eight) WINDOWS · Intel processor, 1.5 GHz or better · 1 GB RAM* · 1024 x 768 screen resolution · Windows XP with Service Pack 2 or higher · Windows Vista with Service Pack 2 or higher · Windows 7 · Available USB port (USB 2.0 required for SL 3 and Sixty-Eight) *If you have a large library, you will benefit from having more RAM. NOTE: If you are using Scratch Live's more system intensive features such as DJ FX or AUX Deck plug-ins, you may need a higher spec computer or an optimized system. Read the Computer Optimization Guide at www.serato.com. NOTE: The optional Video-SL plug-in scales its performance based on the capabilities of your graphics card. 2 GHz minimum processor speed is required. Please read the FAQ at

www.serato.com before purchasing. PGM 1 1D 4 2 0 10 6 8 PGM 2 4 2 6 8 0 10 2 0 10 4 6 8 2 1D A 2 A OUTPUT LEVELS 4 6 8 0 4 10 6 8 0 4 10 6 8 0 4 10 6 8 0 10 INPUT HIGH GAIN GAIN HIGH INPUT 2 AUX IN MAIN L -12 +12 PAN R OFF +6 OFF +6 L PAN R 2 MIC HIGH FlexFX MID MID FlexFX BOOTH OFF -12 +12 +6 OFF +6 2 MIC LOW 4 2 0 10 6 8 OL LOW LOW AUX OUT P1 OFF +6 OFF +6 P2 2 MIC LEVEL MIC ON PHONES DECK 1 B1 B2 2 B3 B4 B5 B6 PGM 1 GROUP CUE PGM 2 METER STEREO HOUSE 27 J1 SLOW FAST SLOW FAST SLOW J2 FAST MASTER CUE CHANNEL SWAP FADER 1 CONTOUR REVERSE CROSSFADE CONTOUR REVERSE FADER 2 CONTOUR REVERSE OL +8 +4 +2 0 2 4 8 16 24 A B PERFORMANCE MIXER TTM 57SL Serato Video-SL setup using a Rane TTM 57SL Rane SL 1 for Serato Scratch Live The Rane SL 1 combined with Serato Scratch Live sets the standard for vinyl emulation, giving you the freedom to take your entire digital music collection on the road and equipping you with advanced features that add extra creativity to your DJing. This intuitive system replicates the traditional DJing experience for "real feel" usability. With unparalleled performance and stability, you'll know why thousands of DJs worldwide choose the Rane SL 1 and Serato Scratch Live. The SL 1 is praised for its very low latency, this means the response time from touching the decks to hearing an audio signal is extremely fast. Serato engineers developed system level audio drivers SETTING THE STANDARD FOR PROFESSIONAL DJS · DJwithmusicfilesonyourcomputerusingControlVinyl,ControlCDorMIDI. · CreativeDJingfeatures:cueing,looping,keylock,sampleplayerandDJ-FX. · Compactandultra-ruggedhardwareforportabilityandsimplesetup. · Intuitivefilemanagementwithcrates. · EasyfileandiTunesplaybackmigration. · Multipledisplaymodesforoptimalibrarybrowsing. · Advancedvisualfeedbackforquickmixing. · Dedicatedmicinputforrecording/liveplaybackandscratchingofthemicsignal. · Built-inrecordinginterfaceforarchivingvinyl.



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