




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for RANE DRAG NET 4. You'll find the answers to all your questions on the RANE DRAG NET 4 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

- User manual RANE DRAG NET 4
- User guide RANE DRAG NET 4
- Operating instructions RANE DRAG NET 4
- Instructions for use RANE DRAG NET 4
- Instruction manual RANE DRAG NET 4



Fast • Easy • Awesome
Drag Net™ incorporates familiar Windows® file management tools and shortcuts. Easily self-taught or factory trained over the internet in just an hour.

DSP audio solutions for:
Restaurants, Sport Clubs, Clubs, Retail Stores, Hotels, Offices, Churches, Conferencing, Schools, Theme Parks, Libraries, Malls

Version 4 Data Sheet

Drag Net SOFTWARE


The best customizable DSP solution for small to medium installations

- Drag Net™ drag and drop software is used to configure, control and monitor Rane's Programmable Multiprocessor (RPM) family of fully-configurable DSP products.
- Uses standard 10Base-T Ethernet connectivity for PC to RPM unit communication.
- Windows® 98, 2000 & XP compatibility. New algorithms downloadable via Ethernet.

Inputs: Up to 8 mic/line plus AES3 digital (depending on the RPM model). Delay-chain more with AES3 I/O.

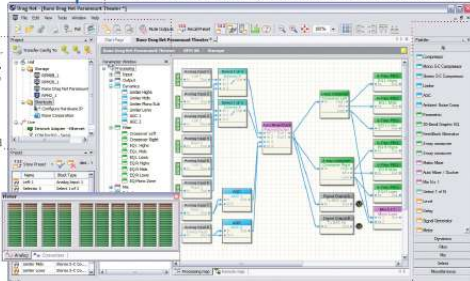
Remotes: End-user Levels and Presets can be assigned to Remotes, installed near the source or inside the zone.

Outputs: Up to 8 balanced line outputs plus an AES3 digital output (depending on the RPM model).



Device Configuration window

- What you see is what you get – If a control is shown and DSP usage <100%, use it!
- Multi-select/cut/copy/paste and block alignment tools.
- Remotely addressable Level & Preset recall controls.
- Tap on processing blocks display the last recalled preset.
- View the Preset elements from the Processing Map or from the Preset block list.



Project window

- Easy project management for Drag Net configurations, proposals, drawings and web links using the Show/Hide folder.
- Allows offline setup at the office for later download into live devices.

Meter Window

- Consolidates all input and outputs into a resizable and dockable meter bridge.

Preset window

- Preset overlay feature allows changing one, some, or all parameters.
- Settings can be stored in 24 internal, non-volatile Presets.
- Recall the first 8 Presets via remote contact closures (see Remote Mapping).

Parameter window

- Displays a tree structure view of all used signal processing and control blocks.
- Associates parameters to remote controls (Contact closures, Smart Remotes).
- Drag-and-drop into the Preset window to quickly build Presets.

Palette window

- Lists signal processing blocks used to create the audio flow.
- Drag and drop blocks from the Palette to the Device Configuration window to build your custom audio system.



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Manual abstract:

· Uses standard 10Base-T Ethernet connectivity for PC to RPM unit communication. · Windows® 98, 2000 & XP compatibility. New algorithms downloadable via Ethernet. Fast · Easy · Awesome Drag Net™ incorporates familiar Windows® file management tools and shortcuts. @@@@. Multi-select cut/copy/paste and block alignment tools. · Remotely addressable Level & Preset recall controls. · Tags on processing blocks display the last recalled preset. @@ · Allows offline setup at the office for later download into live devices. Meter Window · Consolidates all input and outputs into a resizable and dockable meter bridge. Preset window · Preset overlay feature allows changing one, some, or all parameters.

· Settings can be stored in 24 internal, non-volatile Presets. · Recall the first 8 Presets via remote contact closures (see Remote Mapping). Parameter window · Displays a tree structure view of all used signal processing and control blocks. · Associates parameters to remote controls (contact closures, Smart Remotes). · Drag-and-drop into the Preset window to quickly build Presets.

Palette window · Lists signal processing blocks used to create the audio flow. · Drag and drop blocks from the Palette to the Device Configuration window to build your custom audio system. Drag Net SOFTWARE Processing Blocks Inputs and Outputs · Input block features vary depending on RPM hardware. 0 RPM 88/44/22/2m: mic or line, +48V Phantom Power. 0 RPM 88/44/22: AES3 digital I/O with sample rate conversion.

0 RPM 26z: line-level only, analog gain trim. 0 RPM 2: line-level only. · Software controlled mic/line Inputs (RPM 88/44/22/2m): 0 -128 dBu EIN (mic) with +48 VDC Phantom Power. 0 Coarse Gain from +15 to +60 dB in 15 dB steps. 0 Fine Trim from +16 to -20 dB in 1 dB steps. · Line-level Balanced Output Trim maintains highest signal-to-noise for all gain settings. · Intuitive gain structure GUI. Priority Auto Mixer / Ducker · Advanced music and paging processor, with all the elements for multi-zone paging and priority program management. · A variety of In/Out combinations are available, up to 8 x 8. · Automatic detection of input signal with noise immunity.

· Push-to-Talk operation from VIP Port contact closure. · Forced on from properties window. · Cross-point assignment of any input to any output. · Eight priority levels for each input, arbitrated at each crosspoint. · Priority based Ducking at each crosspoint. · Priority dependent NOM mode preserves gain-before-feedback. Applications: · Automatic, priority paging with auto detection or Push-to-Talk. · Automatic, priority based program selection. · Simple, priority based ducking. · NOM-based automatic mixing.

More Select and Mix Blocks Mix N x 1 Select 1 of N Matrix Mixer J Up to 10 inputs / 10 outputs! Deluxe Stereo or Mono Side-Chain Compressor · Smooths out program dynamics, with soft knee adjustment. · Uses true rms level detection. A side-chain allows filters in the detector path as well as an input for ducking applications. · Provides initial default settings for music and speech. Ambient Noise Compensator · Automatically boosts program levels to match changes in background noise level.

@@@ · Allows transparent control of both speech and music levels. @@@@Up to 15 filters can be added to each PEQ block. @@@@Tab display of all filter parameters in list form. @@ · Fixed, floating and user-adjustable PEQ filter types. · Reset floating filters on power up or user-defined timeout.

· Speech and music modes. · Auto-setup mode with limiter for fast setup. · Dynamic level control. @@@@Filters may be linked and adjusted simultaneously. @@@@All remotes mount in a standard U.S. @@@@The various modes and parameters (e.g., Backlight Timer) are set directly when connected to a live device. Configurations can be created offline and saved as Storage files or user templates for subsequent upload to the remote at the job site.

It is possible to assign a single remote to one or more parameters to control a mono or stereo zone level, for example. It is also possible to assign multiple remotes to control the same parameter, as in a primary/secondary arrangement. Remotes linked in this manner automatically track each other's changes, remaining in synch at all times. Smart Remotes require shielded CAT 5 cable with two Smart Remote with LEDs twisted pairs. SR 2 Smart Remote Smart Remote with LCD SR 3 SR 4 Office Small Dogs Medium Dogs Big Dogs Chicken Coop Pig Sty Horse Barn Goat Pen 3 2 1 LEVEL 4 2 0 10 6 8 Volume Remote Level Recall Switch MRS 4 LRS 4 4 VIP Remotes Using any of the RPM series Versatile Input Port (VIP) voltagecontrolled level inputs, the VR 2 provides a simple "pot-on-a-wall" solution, and the LRS 4 and MRS 4 provide 4-way radio button "switch-on-a-wall" solutions. Only three wires are required for connection. VR 2 Memory Recall Switch Drag Net SOFTWARE Specifications Parameter Compressor

.Threshold Range

.Ratio Range

.Attack TimeRelease Time

.Gain reduction meter LimiterThreshold Range

.Attack Time

.Release Time Parametric EQ

.Frequency Range Band-pass (Presence)Filter Level Range

.Bandwidth Range ShelvingFilter Level Range High cut & low cut

.Filter type All-pass 1st-order

.Phase shift All-pass 2nd-order

.Bandwidth Range CD Horn EQ Frequency Range Crossover Filter TypesBessel Corner FrequencyAttenuation

.2nd-order3rd-order

.4th-order

.Butterworth corner frequency. ...

..Butterworth ordersLinkwitz-Riley corner frequency. ..

...Linkwitz-Riley ordersCrossover frequency range ..

...Crossover freq. step size Mix .

....Input Range .

....Output Range LevelInput Range Delay .

....Delay RangeMinimum Step Size .

....Temperature Range Sine Wave Generator Pink Noise: Type .

....Period .

....Crest Factor Meter: Range Specification +0 to -40 1:1 to 20:1 plus infinity:1 0.5 to 100 1 msec to 5.0 sec Inverted peak response +0 to -40 0.5 to 100 1 msec to 5.0 sec 20 to 20,000 +12 to -15 0.025 to 2.

025 +12 to -15 Butterworth 2nd-order Limit 1 typ typ typ Units Conditions/Comments dB msec rms detector 1/2 dB steps 29 steps between 1:1 & 20:1 16 steps 15 steps indicates instantaneous minimum gain setting peak detector 1/2 dB steps; Ratio fixed at infinity 16 steps 15 steps all except CD Horn EQ Minimum step size 1 Hz Bandwidth ref. to 3 dB from peak/notch level 1/4 dB steps Q of 57.71 to 0.66; 80 steps total 1/4 dB steps; ±3 dB slope 1 typ typ typ dB msec Hz dB oct. dB unity gain magnitude response -90 Deg. at center frequency Bandwidth refers to frequencies where the phase is +90 and -90 degrees with respect to the center frequency. Maximum phase shift is ±180 degrees. 0.025 to 2.025 oct.
Q of 57.



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71 to 0.66; 80 steps total 2k to 5k typ Hz +3 dB corner freq.; 6 dB/octave slope -4.5 dB -6.

25 dB -7.5 dB -3 dB 2nd, 3rd & 4th -6 dB 2nd & 4th 20 to 20,000 1 Hz -30 to 0 dB 30 to +16 dB -30 to +16 dB 0 to 500 0.02083 msec -20° to 120° F 20 to 20,000 Pseudo Random (average) 167 4.9 60 at selected frequency at selected frequency 12, 18 & 24 dB/octave, respectively 12 & 24 dB/octave, respectively Hz typ ½ dB steps plus Mute ½ dB steps plus Mute ½ dB steps plus Mute msec deg. Hz ½ dB error typ typ sec dB Peak Response 48 kHz sampling rate -29 to 49 C; 1° F minimum step size 1 Hz steps The phase between individual generators is likely to be uncorrelated, but not guaranteed.

Minimum System: Pentium 2 PC (266 MHz), 30 MB available disk space, 128 MB RAM, Windows 98(SE), 2000, XP, Vista or 7, Internet Explorer 6 or higher, 10Base-T capable Ethernet Network Interface Card (NIC) Recommended System: Pentium 4 PC (>1.5 GHz), 512 MB RAM, Windows XP, Vista or 7. Basic Church System Rane SR 4 Remote at Pulpit to change Levels and Presets Lavalier Only Pulpit Only Lav anFOR A CLASS 'B' COMPUTING DEVICE. +5V 100 mA 6 7 8 REF GND 1 DEFAULT ACN 001 345 482 2 3 4 5 LAN LINK 1 2 3 4 5 6 7 8 REF GND 100-240V 50/60 Hz 20 WATTS + + + + + + + INPUT -4 -12 -48 1 2 AES3 A LOCK B -4 -12 -48 PRESET RPM 22 OUTPUT -4 -12 -48 1 2 A AES3 B -4 -12 -48 Peak dBFS 24 VIP/VOP RW 485 ETHERNET STATUS POWER PROGRAMMABLE MULTIPROCESSOR RPM 22 2 mic/line analog inputs, 2 analog outputs, AES3 input/output COMMERCIAL AUDIO EQUIPMENT 24TJ RPM 22 MADE IN U.S.A. RANE CORP. OUTPUTS 2 1 INPUTS 2 1 R ACN 001 345 482 + + + + 10Base-T FOR CONTINUED GROUNDING PROTECTION DO NOT REMOVE SCREW AES3 OUT AES3 IN REMOTE INTERFACE PORT (RW 485) A B +V -V 1 VERSATILE OUTPUT PORT CLASS 2 WIRING OPEN COLLECTOR +40 VDC / 100 mA MAX 2 3 4 5 6 7 +12 VDC / 100 mA MAX 8 +12 GND 1 VERSATILE INPUT PORT 0-5V 2 3 4 5 6 7 +5 VDC / 100 mA 8 REF GND DEFAULT LAN LINK 100-240V 50/60 Hz 55 WATTS CLASS 2 WIRING A B +V -V 1 2 3 4 5 6 7 8 +12 GND 1 2 3 4 5 6 7 8 REF GND This device complies with Part 15 of the FCC Rules. @@@@RANE CORP. @@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.

CLASS 2 WIRING 108359 ©Rane Corporation 10802 47th Ave. W., Mukilteo WA 98275-5098 USA TEL 425-355-6000 FAX 425-347-7757 WEB www.rane.com For hardware details, see the Data Sheets and Manuals for any of these products, all available at www.rane.com RPM 26z RPM 2m All RPM units have Ethernet 10Base-T, 8 logic inputs, balanced Euroblock connectors. .



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