

RANE



Audio Products for Professionals











2015 EU Products Catalog

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HAL System

Introduction

HAL is more than just another DSP drag-and-drop system. It has revolutionized system design and installation.

HAL is an expert in room combining, paging and distributed audio systems. This groundbreaking architecture is dimensions beyond any solution in any industry. HAL easily guides even novice users through what used to be complex tasks in just minutes. No intricate matrix mixing or presets are required for room combining and paging. No virtual wiring is required to distribute pages and background music to multiple, even hundreds of zones.

Seamlessly interface HAL to your application with web controls and/or a broad variety of peripheral devices including smart Digital Remotes, a 7-inch programmable touch-screen, Remote Audio Devices (RADs), portable or rack automixers, audio I/O, Dante, and logic expansion devices, wall sensors, ambient sensing mics, and an advanced Paging Station. Control HAL functions from a web browser in any smartphone, computer or tablet – including iPads, iPhones, Androids, Samsung, etc.

In addition, the HAL Multiprocessor and Halogen™ software check the status, location, CAT 5 wiring integrity, and that audio is flowing in all peripheral devices, so you know your system is properly connected and ready to go. Does your DSP troubleshoot the cable install for you and offer a "Get on the Plane" indicator that shows you that the installers have truly finished their job? It should.

Halogen software includes Ethernet control support for third-party control systems such as AMX®, Crestron® and Stardraw Control™, including well-documented examples. Standard TCP/IP set and get ASCII text messages control levels, selectors, presets and toggle software actions. Since the same Halogen software code runs on both Windows® and within HAL hardware, third-party control developers can test all their code using only the Halogen Windows software. Use only software for complete system design and validation. Buy the hardware only when the install date arrives and completely skip needing it early solely for control system programming verification.

Analog audio has always offered "plug it in, it works!" functionality. With HAL's modern DSP system, finally digital audio offers "plug it in, it works". Without IP anything, without DHCP servers, without unblocking ports, without firmware mismatches, without hours (or days?) of bad cable termination or swapped cable-pull troubleshooting, and other troubles caused by Ethernet and other supposedly modern digital audio and control transports.

Four HAL multiprocessors provide various audio I/O and control options for both large and small installations.

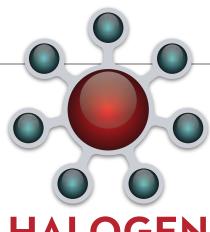
- HAL1x supports 16 in x 16 out audio, which may be increased up to 528 in x 528 out by adding up to 32 daisy-chained Expanders to a single HAL1x. Add a few to hundreds of more mic inputs with AM Automixers.
- HAL2 supports 18 in x 18 out audio, of which 2 x 2 are via AES3 on XLR connections.
- HAL3s supports 6 in x 10 out audio. The 2 "Mic/Line-Plus" Inputs accept balanced, or unbalanced left/right monoed.
- HAL4 supports 2 in x 2 out audio. The 2 "Mic/Line-Plus" Inputs accept balanced, or unbalanced left/right monoed.

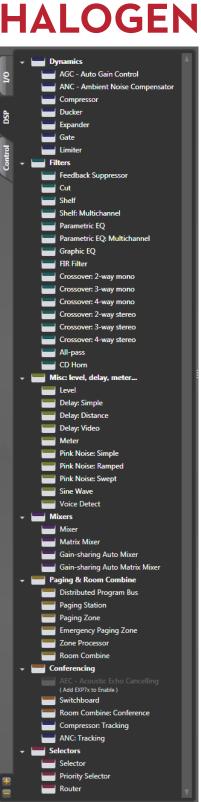
Download Halogen and design a system now!

rane.com/hal

Applications, installations and solutions are at

blog.rane.com







HAL Comparison

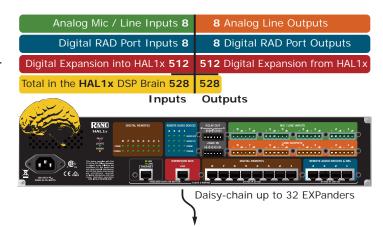


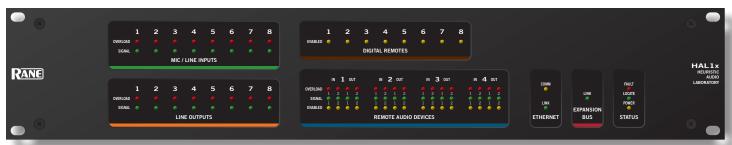
HAL1x Expansion Bus Supports 32 Daisy-chained EXPs in Any Combination

- Connects with shielded CAT 5e (or better) cable and RJ-45s; Maximum distance between units = 100 meters (300 feet).
- Supports Gigabit Ethernet Media Converters: Multimode max = 2 km (1.2 miles); Singlemode max = 12 km (7.5 miles).

HAL1x Multiprocessor

- 16 in x 16 out 8x8 analog & 8x8 digital (RAD ports).
- Up to 4 RADs (without EXP1x), up to 260 RADs (with 32 EXP1s).
- Up to 12 Digital Remotes (without EXPs), up to 268 (with EXPs).
- Four logic inputs, Two relay outputs (more with DR4 or DR5).







Daisy-chain up to 32 Expanders with the Expansion Bus (in red).



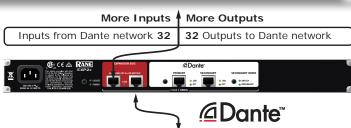
HAL Comparison





EXP2x Dante Expander for HAL1x

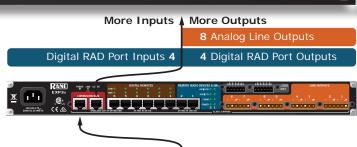
- Lets HAL1x send and receive 32 channels to a Dante network.
- Supports 44.1, 48, 88.2 or 96 kHz Dante network sample rates.
- Chain up to 16 EXP2x units to a HAL1x for 512 in x 512 out.





EXP3x Zone Output Expander for HAL1x

- Adds 8 analog line outputs and 8 logic outputs to a HAL1x.
- Adds 6 Digital Remote ports & 2 RAD ports to a HAL1x.
- Chain up to 32 EXP3x units to a HAL1x for 256 outputs.





EXP5x Input Expander for HAL1x

- Adds 12 analog mic / line / line-plus* inputs to a HAL1x.
- Adds 4 Digital Remote ports to a HAL1x.
- Chain up to 32 EXP5x units to a HAL1x for 384 analog outputs.



*"Mic / Line-Plus" Inputs accept a mic, balanced line, or mono left & right unbalanced lines.



EXP7x AEC Expander for HAL1x

- Adds 8 channels of Acoustic Echo Cancelling DSP to a HAL1x.
- Chain up to 32 EXP7x units to a HAL1x for 256 AEC channels.
- Preset recall can re-assign an AEC resource across inputs / rooms as required.

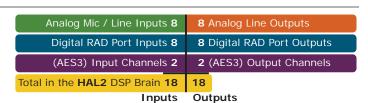


HAL Comparison



HAL2 Multiprocessor

- 18 in x 18 out 8x8 analog & 8x8 digital (RAD ports) & AES3 I/O.
- Up to 8 Digital Remotes.
- Four logic inputs (closure).
- Two relay outputs.







HAL3s Multiprocessor

- 6 line in x 10 line out 2x6 analog & 4x4 digital (2 RAD ports).
- Up to four Digital Remotes.
- Four logic inputs (closure).

Analog Line-Plus Inputs 2 6 Analog Line Outputs

Digital RAD Port Inputs 4 4 Digital RAD Port Outputs

Total in the HAL3s DSP Brain 6 10

Inputs Outputs

• Inputs are configured in Halogen: Mic with or without +48V, "+4 dBu balanced" or "-10 dBV unbalanced Left/Right Monoed."





HAL4 Multiprocessor

• 2 Mic / Line-Plus inputs x 2 line outputs.

C€®

- One Digital Remote port.
- Inputs are configured in Halogen: Mic with or without +48V, "+4 dBu balanced" or "-10 dBV unbalanced Left/Right Monoed."

Analog Mic/Line-Plus Inputs 2 2 Analog Line Outputs

Total in the HAL4 DSP Brain 2 2

Inputs Outputs



HAL Remotes



DR1 Digital Volume Remote



Level Control

Digital Remotes

Three Digital Remotes simplify end user control and eliminate installer brain fatigue. Use Digital Remotes for volume control, preset recall, source selection, or resetting or toggling system states. All offer customizable backlit LCD screens for intuitive end user labeling. Home run shielded CAT 5e (or better) connections to a HAL or EXP eliminate addressing, external power, and the need to test the cables, which can run up to 300 meters (1,000 feet).

The DR1 supports Level Control.

The DR2 offers Single Selector or List of Toggles/ Commands behavior.

The DR3 has three behaviors: Single Level & List of Toggles/Commands, List of Levels for either multizone volume control or input source mixing, and Single Level plus Selector.

DR2 Digital Selection Remote



Single Selector



List of Toggles / Commands

Drag the purple control chain icons atop one another to create links. This screen shows linking a DR1 volume onto the Meeting Room Output Level control. Four Control Link types and behaviors are supported: Level, Select, Toggle or Command. Activation and Priorities work together for incredible flexibility. Link simple analog remote level control pots by adding a DR4 Logic I/O Remote.

DR3 Digital Volume and Selection Remote



Single Level & List of Toggles / Commands



List of Levels



Single Level & Selector

HAL Remotes



DR4 Logic I/O Expander

The DR4 Digital Remote adds additional logic input and output ports to any HAL, enabling simple analog level and logic I/O controls plus IR2 remotes for wall sensing. The DR4

offers eight logic ins and outs, six IR ports and eight analog input ports for pot-on-a-wall level control. Multiple DR4's can connect to Digital Remote Ports on any HAL, up to 300 meters (1000 feet) away.





DR6 Touchscreen Remote Control

The DR6 is a fully customizable touchscreen remote for the HAL family. It supports multiple pages or tabs and any set of levels, toggles, selectors and/or commands. Drag, drop and resize controls any way that's desired. Use custom background images and logos in full-color on the 7-inch LC display.

Screw the included wall-mount bracket over U.S. or international electrical boxes, or flush mount the 2 cm thick DR6 with a 5 cm square hole in the wall to accommodate the cable. The optional DS1 desk stand accessory (shown) allows the DR6 to rest or mount on a horizontal surface. The optional RB2 rack bracket securely installs a DR6 into a 19" equipment rack with room to mount a 4" round speaker.

The included midspan power injector (not PoE) connects shielded CAT 5e (or better) cables between any HAL and the DR6 to deliver communications and the extra power needed for the display.

Optional, on-screen User Access logins secure management pages from public or staff use, and a programmable ambient light sensor automatically dims the backlight.

The Control Page Designer in Halogen allows you to create one set of pages and use them in a web control design, DR6 display or both.





DR6 with optional RB2 Rack Bracket (3U)



NEW! RAD26 One Room RAD Remote

Using one shielded category cable drop, the RAD26 provides any room with a dual 4-watt amp, end user control via a color custom LCD display & encoders, a dual universal audio I/O interface, plus headphone output and line-level input jacks for local needs. Three logic closure inputs and three active-low outputs add to the control capabilities. The amplifier permits a single channel option at 8 watts into 8Ω . Applications include:

- Presentation source & volume, projector & screen control.
- Meeting room with A/V teleconferencing and speakers.
- Spa with BGM, local music input and stereo speakers.
- Hotel or cruise ship room TV and local input sound system.

A RAD26 provides enough I/O and control to support one room in a HAL audio system which may require these features:

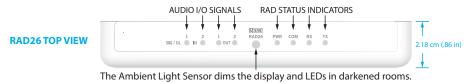
- Local audio line input (smartphone, laptop, MP3, DVD).
- One or two microphone or line-level inputs.
- Amplifier outputs for ceiling speakers.
- Level control and source selection.

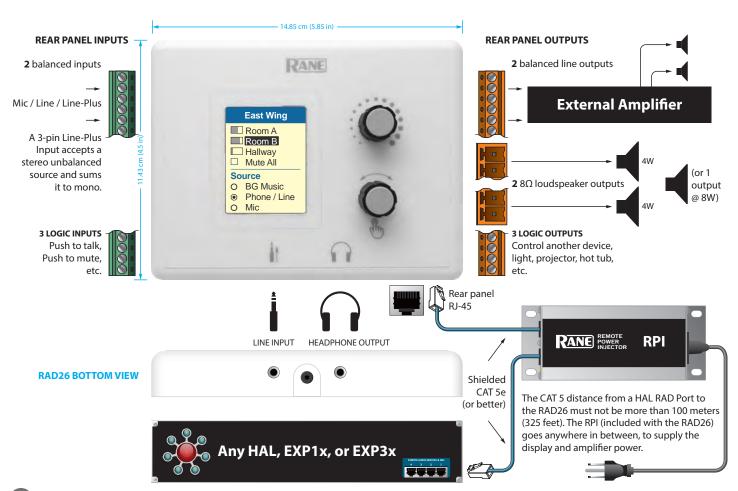
Each RAD26 may be installed onto a standard US 2-gang electrical box, 1-gang electrical box, or flush-mounted to a wall surface. The exterior finish is matte white.

Source and level behave like a DR3 remote, but with any combination of Levels, Toggles, Selections or Commands. On the back there are 2 balanced Euroblock Mic / Line / Line-Plus audio inputs with the mode set in Halogen software. The Line-Plus inputs accept unbalanced left and right signals and sums them to mono. 24V phantom power is available for condenser mics. For end users, there is a 3.5 mm Aux input on the underside of the front, accepting the output of a smartphone, laptop or other consumer device.

A built-in 4-watt stereo amplifier powers a small stereo pair of speakers, or this amp can be switched in software to power a single 8-watt speaker. Balanced line outputs can drive an external amplifier or powered subwoofer for more output.

Software logic senses an inserted connector at the Aux In or Headphone jacks to optionally override the rear connections.





RADs



The entire family of RAD models interface with HAL, for digital conversion at the wall. Each converts analog audio to and/or from 24-bit, 48 kHz digital audio.

RAD NETWORK
SHIELDED CAT 5e
CABLE CONTENTS



Data communications (COMM)
2 digital audio channels (Rx)
2 digital audio channels (Tx)
Power: 24 VDC & ground
Shield

Shielded CAT 5e (or better) 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, HAL or EXP unit, and in Halogen software. HAL auto-checks the CAT 5 crimp and verifies audio. All RADs (and DRs) are both "location-aware" and hot-swappable with 150-meter homerun connections (66% farther than Ethernet) [the RAD26 has a 100-meter limit]. Light sensors dim the RAD indicators in dark rooms. Except for the RAD16z, AM1, AM2, and PAGER1, all RADs mount in standard US electrical boxes. Most RADs are available in white, ivory, or black, with a matched Decora® plate cover included.

RAD2 XLR Mic Input / Mini & RCA Mono'ed Line Input

RAD3 Dual XLR Line Inputs

RAD4 Dual XLR Line Outputs

RAD5 AES3 Input / AES3 Output

RAD6 Mini & RCA Stereo Line Input / Stereo Line Output

RAD7 XLR Mic Input / XLR Line Input

RAD8 XLR Mic Input / Mini & RCA Stereo Line Output

RAD9 XLR Mic Input / XLR Line Output

RAD11 XLR Mic In / Mini & RCA Mono'ed Line In / Mini & RCA Stereo Line Out

RAD12 Dual XLR Mic Inputs / Dual XLR Line Outputs

RAD14 XLR Mic In / Mini & RCA Mono'ed Line In / Dual XLR Line Out

RAD15 Dual XLR Line Inputs / Dual XLR Line Outputs

RAD16z Dual Mic-Line-Plus Input / Dual Line Output / Dual Logic / Euroblocks

RAD17 Omnidirectional Boundary Layer Mic

RAD18 XLR Mic Input / 1/4" Balanced Line Input

RAD23 XLR Line Input / XLR Line Output

RAD26 Dual Input - Output - Logic - Amplifier / Source and Level Remote

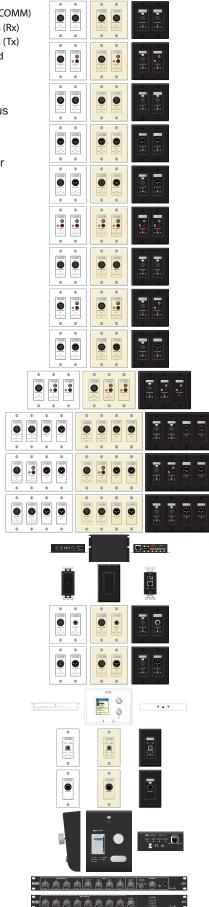
RAD27 USB Audio Sound Card

RADX RAD Port Extension (CAT 5 wall jack for portable RADs)

PAGER1 Mic Preamp with Push-to-Talk and Page Zone Selection

AM1 Four-Channel Gain-Sharing Automixer with extra Line & USB Inputs

AM2 Eight-Channel Gain-Sharing Cascadable Automixer





Halogen Web Controls

Control the Levels, Selectors, Toggles and Commands in any HAL System from **any device with a web browser**. Halogen's Web Controls feature allows creation of custom HTML GUI control screens. Define the quantity of control pages, and the layout, labeling and size of each control, and completely test them using your default web browser from within Halogen.

Access any control page from any browser-enabled device on the network with a HAL device. Just open a browser and type in the customizable IP/webpage address for the HTML page – and bookmark it for easy access. Type in an optional User Access code, and voilà, the trick, she is done! Control your HAL system wirelessly from one or more tablets, smart phones, laptops or desktop computers. The HAL web server is multi-client, allowing control across many devices and many rooms. You can link Rane's wired DR remote controls (DR1, DR2 & DR3) and wireless devices and they'll automatically track each other.

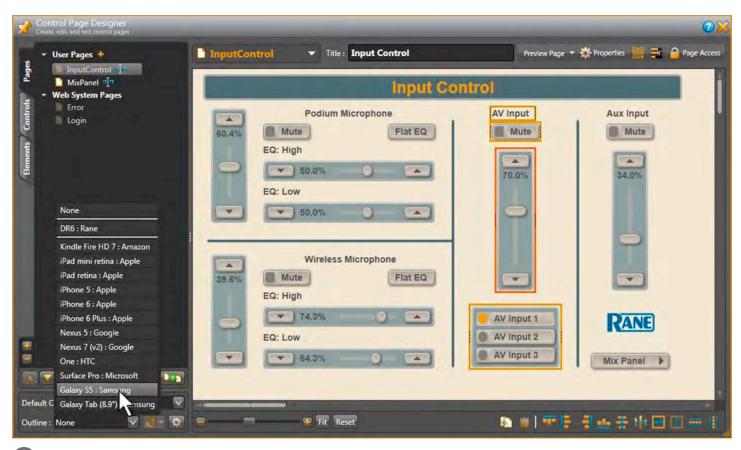
Customers from almost every audio application are asking

for "iPad control" and Halogen's Web Controls is the solution. It is not Apple®-centric — no iTunes® store or app installs required. We'll save a lot of ink not listing all the possible devices.











PAGER1 Paging Station

The PAGER1 is a RAD with a mic preamp, paging zone(s) [Scenario] selector and an integrated push-to-talk switch. It sits on or can fasten to a tabletop, and accepts any gooseneck microphone (not included).



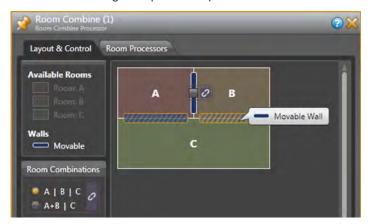
IR2 Infrared Wall Sensors

The Rane IR2 provides an automatic way to sense the position of a movable wall or door. Mounting brackets and screws are included. A single CAT 5e cable for each door connects the IR2 pair to a



dedicated IR Remote port on the rear of a HAL2 or a DR4.

Halogen's Room Combine Processor supports custom wall layouts and auto-activation of independent room processors for each possible physical room as walls open and close. Control links to Digital Remotes also combine and separate automatically as wall states change. No presets required.



Logic Inputs

These inputs are found on the **HAL1x**, **HAL2** and **HAL3s**. More can be added with the **DR4** or **DR5** connectable to any HAL. You can configure each of the Logic Input ports in one of three ways: toggle, command, or selector.

- The Toggle configuration allows a Toggle command with an on/off switch. You can configure each port type to be either Momentary or Latching.
- The Command configuration allows triggering a Command control from an on/off switch, which can link to one or more Command controls such as a Command preset or a linkable button in a processing block property dialog.
- The Selector configuration uses either a multi-position switch or a binary switch. You can connect a physical device to any or all of the Logic In ports and configure the ports in Halogen so they make the desired selection according to the state of the physical device. Wiring details are in the Halogen Software Help. The Selector configuration is not supported by the DR5.

Analog Control Inputs

These inputs are found on the **DR4** that can connect to any HAL. Each port allows an analog voltage source to control the value of a Level control in the Halogen Control palette. The input range for the port is from 0 V to 5 V, where 0 V corresponds to 0% on the associated Level control and 5 V corresponds to 100%. Connect a physical linear-taper potentiometer; the Vc wiper provides the control voltage to the DR4. As you adjust the pot the voltage changes, which in turn changes any linked Level control in Halogen.

Logic Outputs

These outputs are found on the **EXP3x** Output Expander for the **HAL1x**, or on a **DR4** that can connect to any HAL. You can configure each of the 8 output ports in one of 2 ways:

- Toggle: When a toggle control in the Halogen Control palette is unchecked, HAL sets the corresponding DR4 Logic Out port to logic high (5 V), and when the toggle is checked, it sets the port to logic low (0 V).
- Selector: When a selector control in the Halogen Control
 palette is set to the first selection, HAL sets the corresponding
 DR4 Logic Out port to logic high (5 V). Conversely, when the
 selector control is in the second position, HAL sets the port to
 logic low (0 V).

Relay Outputs

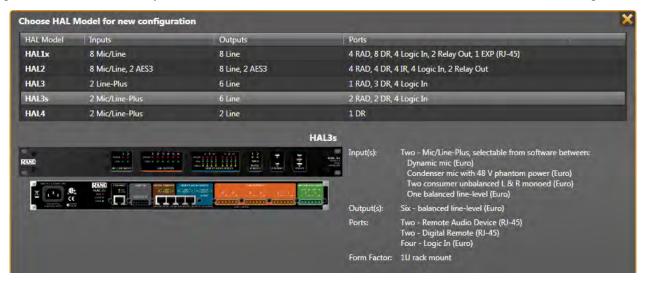
These reed relay ports are found on the **HAL1x** and **HAL2** to signal other devices. A common implementation is to link a relay port to a Toggle control so an end user can change its value. Halogen software contains a checkbox for each relay port. Its value can be included in a preset or link to another control, making it possible to use a preset or control to turn the relay port on or off.

Halogen Software



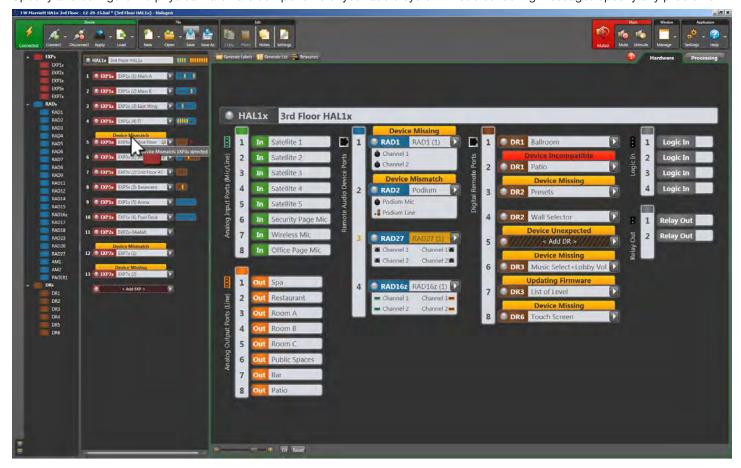
The Halogen software application is your home for designing, configuring, and controlling your HAL audio system. Halogen's easy-to-use graphic user interface simplifies the design and configuration process so much that your only concern will be deciding how to use the extra time you have!

The Halogen software manages global tasks such as discovering, connecting to, and applying configurations to HAL devices. The interface is divided into two main sections: the Hardware Workspace and the Processing Workspace. Halogen helps you choose the best HAL Model to start a new configuration.

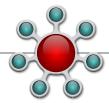


Hardware Workspace

Specify and configure the physical hardware components of your audio system. Troubleshooting messages specify any problems.



Halogen Software





Processing Workspace

Wire together the audio processing components of your system, adding and configuring standard processing blocks such as equalizers, matrix mixers, compressors, limiters, and so on.

Manage and configure control links and presets here. Halogen also provides innovative processing blocks that simplify complex multizone background music, paging and room combine scenarios.

Notice that Halogen separates the hardware view from the processing view of your audio system. A key benefit of this separation is the flexibility it provides when configuring the system's various inputs and outputs. For example, suppose you have a RAD2 in your audio system. You drag the RAD2 device into the Hardware Workspace but then go to the Processing Workspace to configure the RAD2's line input and mic input. This separation of hardware from processing allows you to work with each input and output individually instead of having to work with the hardware device as a single entity. It also allows you to focus on hardware in one place and audio flow and processing in another place—simplifying your job as a result. Brilliant!

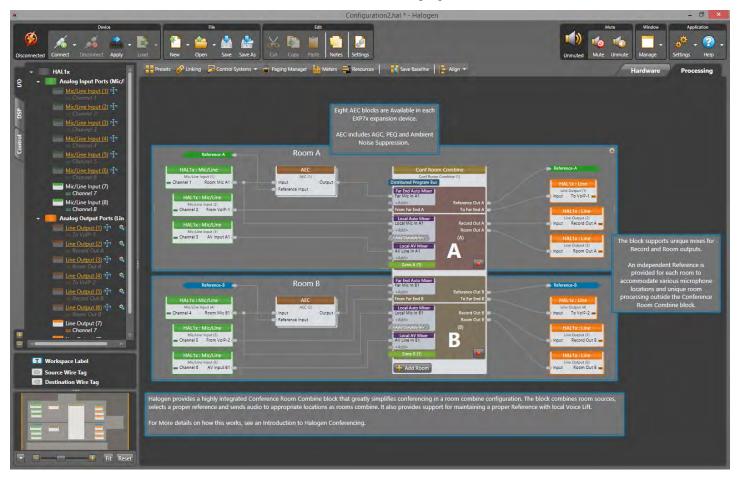
Workspace Layout

As you may have noticed, the Hardware Workspace and the Processing Workspace have similar layouts. On the right is the actual workspace itself in which you create your system. Associated with each workspace is a palette of objects on the left, and at the top a toolbar specific to the workspace. To add an entity to your audio system, you drag one or more objects from the palette to the workspace.

A simple way to think of the Halogen workspaces is that you use the Hardware Workspace to create, connect and trouble-shoot all of your physical hardware, while you use the Processing Workspace to select, configure, and connect the processing blocks and controls.

Wire Management

- Distributed Program Bus
- Paging Manager
- Orthogonal Wires
- Wire Tags
- Highlight Wires



Automixers





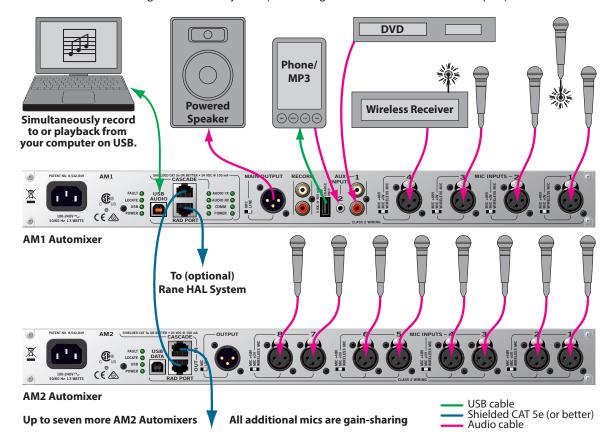
AM1 Four-Channel Gain-Sharing Automixer

- 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 60 gain-sharing mics.
- RAD Port connects to a Rane Mongoose or HAL system.



AM2 Eight-Channel Gain-Sharing Cascadable Automixer

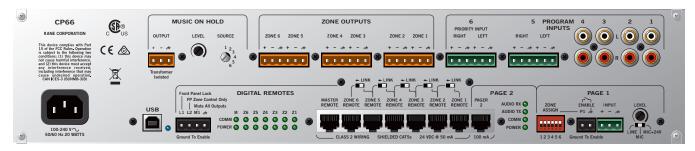
- Automixer with eight gain-sharing XLR line/mic/phantom switchable Inputs; XLR mic/line switchable Mix Output.
- Add more gain-sharing mic/line inputs with up to seven more AM2 Automixers for a total of 64 gain-sharing mics.
- RAD Port connects to a Rane Mongoose or HAL system (that's 64 gain-shared mics on one RAD port).



Paging Processors







CP66 Commercial Processor

- Six Program Inputs assignable to Six independent and linkable Zones; One gated Priority Input.
- Paging Inputs with Priority assign; Recommend the optional PAGER2 Smart Paging Station with Mic input.
- Independent 3-Band EQ, Limiter, Ducker depth, Filter Cutoff, Priority Enable and Page Level per Zone.
- Music-on-Hold Output (Transformer isolated); Front Panel lockout switch; Includes PC software for easy naming and setup.
- Optional Remote Controls connect via shielded CAT 5e cable (see below).

PAGER2 Paging Station

Specific to the CP66, this unit lets you decide which combination of the six Zones to Page into. The unit accepts any gooseneck mic (not included) and has selectable 24 V Phantom Power. It normally sits on a desk or table with lockdown capability. It connects to and is powered by the CP66 via shielded CAT 5e cable up to 150 meters (500 feet) in length. Labels for custom Zone and Group names may be inserted into the protective faceplate.



DR1 Remote Level Control

The LCD display shows the name of the Zone or Group that it is connected to, customizable in the CP66 Software to anything you like. The Level value is also shown, and updated dynamically when it is changed elsewhere, such as in a linked group with multiple Remotes connected. The display has a backlight for readability that turns on when used, then dims after a short time period. The DR1 may be installed in a standard electrical box with a minimum depth of 5.7 cm (2.25"). Connection to the CP66 is via shielded CAT 5e cable up to 300 meters (1,000 feet) in length. Available in white, ivory and black, the DR1 includes a matching Decora® plate cover.







DR3 Selection & Level Control

The DR3 provides Level control with added Input Source selection. This lets you select the audio source for a room from within the room itself, or anywhere else you need remote control. The DR3 can also be used as the Master Remote for the CP66, displaying the Volume Level for all Zones and Groups and allowing you to change each of them dynamically from a single location. The DR3 may be installed in a standard 2-gang electrical box with a minimum depth of 5.7 cm (2.25"). Connection to the CP66 is via shielded CAT 5e cable up to 300 meters (1,000 feet) in length. Available in white, ivory and black, the DR3 includes a matching Decora® plate cover.







Paging Processors





CP64S 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 ZR1 Remote for source selection & volume.

The ZR1 Remote fits in a standard US electrical box, and may be finished with a Decora™ plate cover (not included).





CP52S Commercial Processor

- Mic/line page input assignable to 1 stereo (with mono switch) zone with 7-band EQ.
- 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 ZR1 Remote for source selection & volume; Optional SCP1S EQ-only security cover.



Distribution Amplifier



DA216S 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. May be configured as a 16-zone paging / background music system.
- Switchable 15V phantom power works with most common condenser mics.
- Balanced Euroblock connectors; Internal universal power supply (100-240 VAC).

Line Splitter / Mixer





SM26S 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).

Mic & Line Mixers



MLM42S 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.



MLM82S 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).

Dynamic Control





DC22S 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).

Delay



AD22S Dual Channel Audio Delay for Distance or Video

- Distance Mode: 2 to 999.99 ms delay range, converts between milliseconds / feet / meters with temperature compensation.
- Video Mode: up to 1 second delay in .5 frame increments in frames or milliseconds in all NTSC and PAL / SECAM frame rates.
- · 2 memories; Remote contact closure memory recall with switchable front panel lockout; Fail-safe bypass for each channel.

Headphone Amplifier



HC6S 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)

RANE





Simply Silky-Smooth



The MP2014 represents the perfect marriage of a high-quality rotary control-surface, with state-of-the-art digital signal processing and dual 16-channel USB sound cards. An essential assortment of analog and digital I/O supports mixing vinyl, CDs and USB streaming audio in any combination. Simple, elegant and easy to master.





Different music genres require different filter and EQ configurations to properly deal with song content. The MP2014 allows DJs to adjust Filters, EQs and the Isolator to personalize the music. Channel and Isolator Filters can be stacked for truly amazing isolation and manipulation of musical elements.

be switched to Phono level or CD deck level. An AUX input on each mixer channel is also available.

Two USB ports can connect two computers, each supporting 3 stereo playback and 7 stereo record channels. Play tracks to each input channel and the USB Aux. Simultaneously record each Deck pre-fader, post-fader, the Session In, the Mic, and the Main mix.

The Isolator EQ on the Main mix has powerful 3-band +10 dB to full-cut 24 dB per octave filters with fully adjustable crossover points.

The Session Output goes to S/PDIF and RCA outputs for recording or chaining mixers together.

The Mic input can switch to mic-level or wireless-mic line-level. The DUCK switch temporarily lowers the mix by 10 dB while turning the mic on.

The Session In source may be RCA, S/PDIF or USB AUX playback channels 9-10.

A sweepable Low-pass, Low/High-pass, or High-pass 24 dB per octave filter can activate on each input channel, along with a central Resonance control.

Real wood side panels make this mixer an instrument of beauty.

*The user control panel supports MP2014 options and status with a USB 2.0 computer connection. Class compliant MIDI and Audio means no driver is required for Mac OSX. A high performance universal ASIO driver is included to run most DJ and DAW software in Windows.

Each PH/CD input can

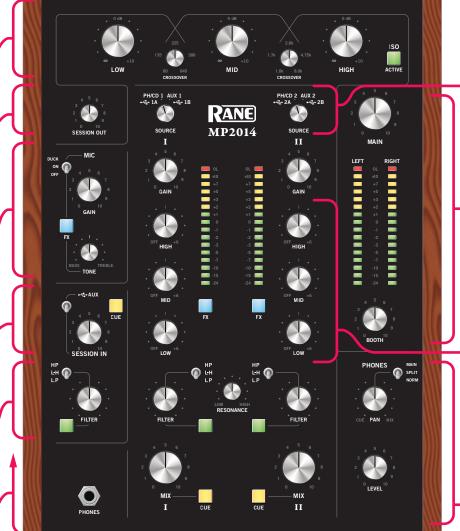
Each input channel selects USB-A, USB-B, a PH/CD deck, or a stereo line AUX.

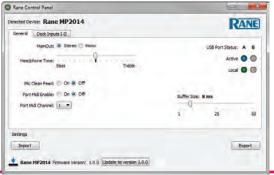
- Deck 1 USB playback channels 1-2.
- Deck 2 USB playback channels 3-4.

The Main Mix has a 16-segment stereo Meter, XLR Main Outputs with a Level control and TRS Booth Outputs with a Level control.

3-band +6 dB to full-cut 12 dB per octave tone filters on each input channel (with selectable 300 / 3k or 150 / 6k Hz crossover points in the user control panel*).

Cue any input channels or the Session Input with the CUE switches and the Headphone monitor. Pan adjusts the Cue/Main Mono Split or Stereo Cueing. 1/4" jacks are on both top plate and front panel with an additional 3.5 mm jack on the front.







The bottom line: this mixer sounds fantastic with vinyl, CDs and music files. The dynamic range is 116 dB from line in to digital/USB out or digital/USB in to line out. THD+N is only 0.001%. All audio processing is 32-bit floating point with supported sample rates of 44.1 kHz, 48 kHz or 96 kHz.

Unit size: 14" H x 11" W x 4.3" D [35.5 cm x 27.9 cm x 8.3 cm](includes knobs). An EARS accessory is available to mount the MP2014 in a desk or portable coffin.





RANE MP2015



VIRTUAL DJ
NATIVE SUPPORT

Different music genres often require different filter and EQ configurations to properly deal with song content. The MP2015 allows performers to adjust Filters, EQs and the Isolator to suit their needs. Channel, Submix and Isolator Filters can be stacked for truly amazing isolation and manipulation of musical elements.

Each PH/CD input can be switched to Phono level, CD deck level, or S/PDIF with 128 dB dynamic range. An AUX input from RCA jacks can be assigned to any input channel. Two USB ports can connect two computers, each supporting 5 stereo playback and 7 stereo record channels. Play tracks into input channels 1-4 and the Session In. Simultaneously record decks 1-4, Submix, Session In and the Main mix.

The Isolator EQ on the Main mix has powerful 3-band +10 dB to full-cut 24 dB per octave filters with fully adjustable crossover points.

Each input channel selects USB-A, USB-B, PH/CD (1-4) or a stereo line AUX.

- Deck 1 USB playback channels 1-2.
- Deck 2 USB playback channels 3-4.
- Deck 3 USB playback channels 5-6.
- Deck 4 USB playback channels 7-8.

3-band +6 dB to full-cut 12 dB per octave tone filters on each input channel and the Submix (with selectable 300 / 3k or 150 / 6k Hz crossover points in the user control panel*).

A sweepable
Low-pass, Low/Highpass, or High-pass 24
dB per octave filter
can activate on each
input channel and the
Submix channel, along
with a top panel
Resonance control.

PH/CD 4 AUX TTT FX LOOP 40 SESSION OUT MIC П Ш IV SUBMIX PHONES

The Main Mix has a 16-segment stereo Meter, XLR Main Outputs with a Level control and TRS Booth Outputs with a Level control.

The Session Output goes to S/PDIF and RCA outputs for recording or chaining mixers together. The Session In source may be RCA, S/PDIF or USB AUX playback channels 9-10. Send it to the Submix channel or the Main Mix with the SUB button.

The Mic input switches for line-level, mic-level, and 48V phantom.
The DUCK button temporarily lowers the mix by 10 dB while turning the mic on.

Cue any input channels or the Submix with the CUE switches and the Headphone monitor. Pan adjusts the Cue/Main Mono Split or Stereo Cueing. Conveniently located 3.5 mm and 1/4" jacks are on the top plate and front panel.

*The user control panel supports MP2015 options and status with a USB 2.0 computer connection. Class compliant MIDI and audio means no driver is required for Mac OS X. A high performance universal ASIO driver is included to run most DJ and DAW software in Windows.



The unique Submix feature allows grouping any number of inputs for easy multi-source mixing. Control EQ, volume, gain, filtering and effects of multiple channels with one set of controls vs. having to deal with multiple knobs and buttons on multiple channels. This can also be a 5th input channel by activating SUB on the Session In.

The bottom line: this mixer sounds fantastic with vinyl, CDs and music files.

The dynamic range is 116 dB from line in to digital/USB out or digital/USB in

The dynamic range is 116 dB from line in to digital/USB out or digital/USB in to line out. THD+N is only 0.0009%. All audio processing is 32-bit floating point with supported sample rates of 44.1 kHz, 48 kHz or 96 kHz.

Unit size: 14" H x 13.1" W x 4.3" D [35.5 cm x 33.3 cm x 8.3 cm](includes knobs). An EARS accessory is available to mount the MP2015 in a desk or portable coffin.

RANE TTM57mkII

classic reborn!

The Rane TTM57mkll Mixer is a plug-and-play package supporting one or two computers, with two-deck digital vinyl simulation (DVS), Serato DJ with the SP-6 sample player, software effects and all the record and playback channels you need. Both USB ports connect to computers running Serato DJ and most DJ and DAW audio programs, using Native Core Audio support for Mac and an ASIO driver for Windows. Class-compliant audio and MIDI means no driver installation on a Mac, and a unified ASIO Rane driver is provided for Windows. Dual USB ports let DJs change over seamlessly between sets, even when they use different software. The TTM57mkII has so many improvements over the TTM57SL, it's truly a new mixer with a lot more creative power.

UNIQUE FEATURES

- Durable Lexan faceplate (no paint to wear off)
- · Channel High, Mid, and Low Kill switches
- Filter Resonance adjustment
- · MIDI-mappable footswitch jack to any parameter
- Headphone Split Cue Mode (Cue: left, Main: right)
- · Changeable EQ crossover points
- · Transform Joysticks with extra functions
- Easy access to Serato INT mode and Slip ON/OFF
- Session Output with a Level control
- External effects processor loop
- Up-fader Channel Swap switch

TTM57MKII SPECIFICATIONS

- Each USB 2.0 port supports 10 record and 10 playback channels.
- Great-sounding 32-bit floating-point audio processing sampled at 44.1, 48 and 96 kHz.
- Deck controls include source selection, Gain trim, 3-band full-cut isolator tone controls and a High/Low-pass sweep Filter.

-G- ALIX

- Independent USB FX Inserts for each deck support post-fader iZotope software FX.
- A dedicated USB Aux Input for SP-6 sample playback with Gain Trim, sweepable High/Low-pass Filter and a Headphone Cue.

serato

- Magnetic crossfader and channel faders with reverse and contour controls (all faders are interchangeable).
- All controls are MIDI-mappable.

A typical setup includes two Serato DVS decks, software FX through independent USB digital inserts for each Deck, and the SP-6 sample player on its own USB Aux input.

Unit size: 14" x 10" x 4" (35.6 x 25.4 x 10.2 cm). An EARS accessory is available to mount the TTM57mkII in a desk or portable coffin.







The TTM57mkII includes Serato DJ with 2 Serato Control Vinyl and 2 Serato Control CDs.

RANE TTM57MKI



RANE TTM57MK Mixer Controls



The Mic input can be switched for a regular dynamic mic or to line-level for a wireless mic. It has its own meter, Level and a one-knob tone control. Two Program buses with Gain trim and meters:

- Select USB Port A or B computer playback.
- Select Two Phono / CD deck Inputs.
- Select Two Aux line-level Inputs.
- 3-band full-cut tone controls with kill switches.
- Sweepable Low / High-pass effect Filter.

Level control for each Output:

- Main Outputs on XLR
- Booth Outputs on TRS
- · Session Outputs on RCA

The FlexFX external FX Loop can assign the Left Deck, Right Deck or Both to an external analog FX Loop, independent of USB software FX inserts.

The USB Aux Input is usually from the Serato SP-6 Sample Player, with it's own Level control, Low / High-pass sweep Filter and headphone cue. The USB Cue overrides the Deck Cue when on.

Channel Swap switches the left or right fader between Deck 1 and Deck 2. Contour controls adjust the faders and crossfader for a smooth transistion or a fast cut. Faders can be individually reversed.

The three Crossfader and channel faders are Rane's famous and dependable no-noise, no-bleed, no-contact magnetic faders. Easy to clean and interchangeable.

The front panel accepts either
3.5mm or 1/4" headphone plugs.
A footswitch (optional) can be connected

A footswitch (optional) can be connect to access learned MIDI functions.

MIC

HIGH AUX

SOURCE

GAIN

SOURCE

GAIN

SOURCE

MAIN

SESSION IN

FILTER

HIGH

FILTER

HIGH

FILTER

HIGH

FILTER

HIGH

FILTER

HIGH

FILTER

HIGH

FILTER

FILTER

FILTER

HIGH

FILTER

Session Input (opposite side) can connect an output from another mixer, or use it as another auxiliary input.

Session Output connects to an input of another mixer, to connect two mixers together.

True Split Cue or Stereo Cue with classic Left Deck and Right Deck slide control.

Direct control of Serato DJ Decks:

- Software FX on/off button.
- FX knob parameter adjustment:
- · Press to select the FX.
- Hold SHIFT to change the Beats multiplier.
- LOOP knob selects loop length.
- Press it to engage Auto Loop.
- Hold ROLL for Loop Roll.
- LIBRARY knob scrolls songs or crates, press to load.
- Hold SHIFT to tab between song and crate selection.
- TRANSFORM joystick:
- Press for Transform on/off.
- Transform on: any direction cuts the audio.
- Transform off: multifunction software control (gray text).

Direct control of Serato DJ Cues and Samples:

RANE TTM57mkII

- CUES / SAMPLES button toggles between Cues (red) and Samples (green).
- Cue 1-4 or 5-8 for each Deck. The active USB follows the Deck source selection.
 - Lit button colors match the Cue colors in Serato DJ software.
 - Press an un-lit button to create a new Cue. Hold SHIFT to delete a Cue.
- Six Sample triggers with Bank up (A-B-C-D) and Bank down (D-C-B-A) selectors.
- Lit button (purple) indicates a ready-to-play sample in Serato DJ.

USB SERATO DJ IZOTOPE EFFECTS

Serato DJ includes FX powered by industry leader iZotope, enabling you to manipulate your songs and add another dimension to your mix. Additional iZotope FX Expansion packs can be purchased to grow your arsenal of FX. Enable and control the FX in Serato DJ and apply individual effects to each Deck.

serato

MIDI CONTROL

MIDI mapping is done for you as the TTM57mkII is plug-andplay with Serato DJ. Advanced users can custom map most mixer controls to many other third-party audio programs. The MIDI control assignments are in the TTM57mkII Manual.

RANE SIXTY-TWO



RANE SIXTY-TWO RIGHT LEFT WITH SERVICE SIXTY-TWO RIGHT LEFT WITH SELECT RESET LEFT RESET



The Sixty-Two is a plug-and-play package supporting one or two computers, with two-deck digital vinyl simulation (DVS), the Serato SP-6 sample player, software plus hardware effects and plenty of record and playback channels. Control Library, Cues, Loops and Samples, with direct control of more than 40 software parameters, laid out for fast and intuitive access.

Both of the USB ports connect to computers running Serato DJ, Scratch Live, and most DJ and DAW audio programs, supporting 6 stereo record and 4 stereo playback channels each. Two laptops can connect at once for easy DJ handover, with great-sounding 48 kHz 32-bit floating-point audio.

The Sixty-Two goes deep in effects. An internal Effects Engine has Filter (low- or high-pass), Flanger (+ or – feedback), Phaser, Echo (4 sync and filter modes), Robot and Reverb. MIDI beat clock in and out allow BPM sync'ed effects. Software FX from Serato DJ or other programs route through the USB effects insert. Rear FlexFX Loop jacks connect an external effects processor.

A typical setup includes operation with two Serato DVS channels, SP-6 sample player on an independent USB Aux playback channel and software effects enabled on the USB digital insert in the FlexFx loop. Record Deck 1 post-fader, Deck 2 post-fader or the Main mix to your laptop, with or without the Mic input.

- Deck controls include a Level trim, 3-band full-cut isolator tone controls, Left/Right Pan, and a High/Low-pass sweep Filter with variable resonance.
- The XLR/TRS Mic/line input features a Level trim, two-band tone controls, and FlexFx assign.
- The USB Aux Input for SP-6 sample playback includes a High/Low-pass sweep Filter.
- Long-life dependable magnetic crossfader and channel faders have reverse and contour controls on the front panel.
- All controls are MIDI-mappable.
- Durable Lexan faceplate (no paint to wear off)
- Unit size: 14.25" x 10.5" x 4"
 (36.2 cm x 26.7 cm x 10.2 cm)











The Sixty-Two includes Serato DJ with 2 Serato Control Vinyl and 2 Serato Control CDs.

RANE SIXTY-TWO Mixer Controls

DECK 1



Mic Input has switchable Mic or Line-level with 2-band full-cut tone and pan controls.

The Mic can route to FlexFX or record to USB. Mic Over ducks Deck sources by 12 dB. Clean Feed sends the Mic only to the Main Out. Two Program buses:

- Select either USB port for playback and MIDI.
- Four Phono / Line Inputs.
- Left / Right Pan.
- 3-band full-cut tone controls.
- Sweepable Low / High-pass filter.

Two USB ports, each with six stereo record channels and four stereo playback channels simultaneously available, allows two DJs with their own laptops to share the mixer. The button assigns the SP-6 sample player to the indicated USB port.

In Auto mode, Loop buttons use the Serato DJ Auto Loop, lighting the buttons orange. In Manual mode. Loop buttons use manual looping features, lighting the buttons green. 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.
- - 4nsert engages software effects through USB.
- playback stereo pair 5-6, usually from the SP-6 sample player. You can sweep the Low-pass / High-pass filter and use FlexFX on samples.

The FlexFx Loop can create a sub-mix with any combination of the two Deck buses, Mic, and USB feed, and then add internal or external effects. This submix may be recorded via the USB Send, or output by the analog FlexFx Loop Send.



scrolls crates & tracks, click it to load the track to a deck.

Level controls on each Output:

- Main Output on XLR jacks.
- Booth Output on 1/4" TRS.
- Session Output on RCA.

Cues button = orange: Recall 5 Cue Points for each left and right Virtual Deck in Serato DJ. Samples button = red: Play four banks of six samples from the Serato SP-6 sample player.

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.

MIDI mapping is done for you as the Sixty-Two is plug-andplay with Serato DJ or Scratch Live. Advanced users can custom map most mixer controls to many other third-party audio programs. The MIDI control assignments are in the Sixty-Two Manual.

RANE SIXTY-TWO serato Contour controls adjust the faders and the

The Crossfader and channel faders are no-noise, no-bleed, no-contact magnetic faders.

BATTLE BRIDGE MOUNTING ACCESSORY

Crossfader for a smooth transistion or a fast cut.

"68 EARS 14" battle bridges for the Sixty-Two bring the total width of the mixer to 12" (30.5 cm) for coffin mounting. These measure 14" x .75" x 3" (35.8 x 1.9 x 7.7 cm).







RANE SIXTY-FOUR

The Sixty-Four is the ultimate plug-and-play mixer for a wide range of music and software, allowing remixing and music production with more layers and effects.



RANE
SIXTY-FOUR
RANE CORPORATION
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SESSION AUX ANALOG INPUTS

OUT IN IN
OUT IN
OUT IN IN
OUT IN
OUT

You've mastered mixing and scratching on two channels. Pushing the limit is in your nature and it's time to raise the bar. The Rane Sixty-Four mixer and Serato DJ software are the tools you need to step your game up. More channels, more decks, more effects...challenge accepted.

Mixing four channels requires a wide variety of amazing transition effects, the ability to sync tracks, more flexible cueing and looping, and versatile transport and mixing capability. For DJs familiar with Scratch Live, the mixer and software will feel familiar and intuitive while providing the advanced features required to step your game up.

- Two USB ports simultaneously stream audio on two computers.
 - DJ handover has never been easier with all audio and MIDI automatically routed to the desired port from the mixer.
- Six stereo USB record and five stereo USB playback channels for DVS and multitrack recording, with dedicated channels for inserting any of the iZotope effects in the post-fader mix.
- Each of the four input channels has:
 - Four stereo Phono/CD input selection.
 - Access to shared AUX input.
 - Stream audio to/from one of two USB ports.
 - Gain Trim, 3-band isolator EQ.
 - High/Low-pass Filter with resonance adjust.
- Two fully independent microphone inputs:
 - One with phantom power switch.
 - One with line-level input switch.
 - Independent Trim, Pan, EQ and FlexFx.
- Advanced FlexFx Loop supports:
 - Six fantastic built-in BPM-driven effects.
- Analog Insert for effect boxes.
- USB Insert for each USB port allows postfader Serato DJ iZotope effects.
- Two independent Serato DJ control strips.
- Unit size: 14.3"H x 12"W x 4"D
 (36.4 x 30.5 x 10.2 cm)











The Sixty-Four includes Serato DJ with 4 Serato Control Vinyl and 4 Serato Control CDs.

RANE SIXTY-FOUR Mixer Controls



Main

Software

SOFTWARE CONTROLS ARE BUILT-IN FOR ONE OR TWO COMPUTERS

- Includes Serato DJ software.
 - Includes Rane ASIO and Core Audio Drivers for Serato DJ and other audio programs.
- Advanced MIDI and audio routing: route any deck to either USB Port, and MIDI follows the audio.
- Control Library, Cues, Loops and Samples on two computers.
 - 30 controls with 157 unique mappings for software.
- Each of the two USB ports supports six stereo record and five stereo playback channels.
- USB record channels support:
 - Vinyl control signal for four Virtual Decks, or record any one of the four Decks post-fader.
 - Record the Main Mix, Mic 1 or Mic 2.
 - FlexFX USB Insert Send to each computer.
- USB playback channels support:
 - · Playback for four Virtual Decks.
 - FlexFX USB Insert Return from each computer.
- Great-sounding 32-bit floating-point audio sampled at 48 kHz.

DECK INPUT CHANNEL CONTROLS

- Pre-fader Level, 3-band iso tone controls with full cut.
- Low-pass / high-pass sweep Filter with resonance.
- Crossfader, FlexFX and headphone Cue assigns.
- Proprietary magnetic crossfader with a contour control.
- Contour control for the channel faders.

TWO MIC INPUTS

- Mic 1 includes a Phantom power switch.
- Mic 2 includes a Mic / Line level switch.
- Controls: On / Off, Level, Pan, Tone and FlexFX assign for each Mic.
- Unused Mic controls easily map to MIDI.

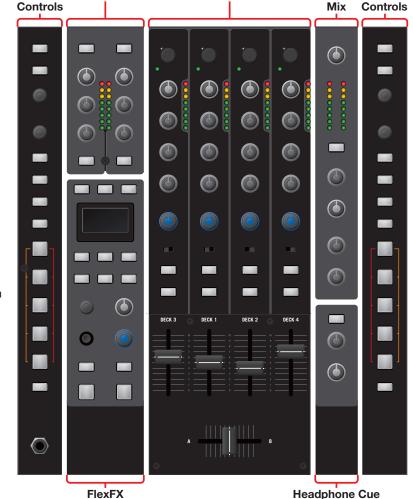
ADVANCED POST-FADER FLEXFX

- Internal Effects engine with:
 - Filter, Flanger, Phaser, Echo, Robot and Reverb.
 - MIDI beat clock track and generate.
 - Sync BPM with Serato DJ, MIDI beat clock or manual Tap button.
- USB Insert loop for post-fader software effects for each of the two ports.
- External analog insert loop for outboard effect units.

MAIN MIX SECTION

- Balanced XLR Main Mix and 1/4" TRS Booth outputs.
- RCA analog and S/PDIF Session In / Out.

HEADPHONE MONITOR WITH SPLIT-CUEING



Deck Input Channels





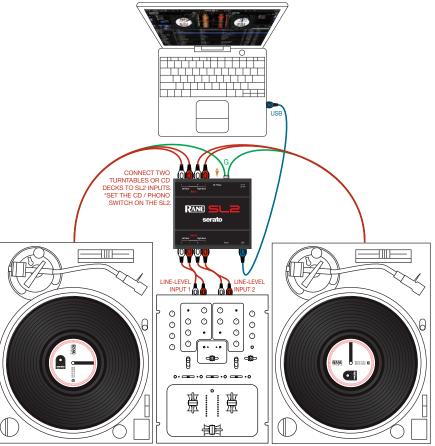
Software

Mic Inputs









The standard for professional DJs

The Rane SL series of interfaces set the standard for vinyl emulation, and ship with Serato DJ software. Rane and Serato give you advanced features that add extra creativity to your DJing. This intuitive system replicates the traditional DJing experience for "real feel" usability. Low latency means the response time from touching the decks to hearing an audio signal is extremely fast. The SL series of interfaces work with computers running Serato DJ, Scratch Live, and all major DJ and DAW programs because ASIO and Core Audio drivers are included.

The Rane SL2 interface connects one or two standard vinyl turntables or CD decks to your computer using a single USB cable and audio connections to line inputs on any DJ mixer of your choice. This system includes Serato DJ software with two 12" Serato Control Vinyl records, two Serato Control CDs, USB cable, and RCA audio cables to your mixer. Galvanic isolation guarantees audio is actively isolated from USB computer noise and power. Several MIDI controllers are supported, and a current list is at serato.com. An optional power supply allows playback of regular vinyl and CDs without re-patching cables when the laptop USB is unplugged. The SL2 delivers the hottest signal and best sound possible from your laptop without noise or distortion.

The SL2 advances the technology from the original SL1 with these improvements:

- CD / Phono input switch on the box.
- Superior sounding 24-bit converters.
- Hotter 3 Vrms input and output.
- 44.1 or 48 kHz selectable sample rate.
- Smaller and more compact cast design.
- Ability to work with most 3rd-party software.

The SL2 interface box is 5.5" x 5" x 1.3" (14.1 x 12.5 x 3.3 cm). See the "Minimum System Requirements" on page 33.











The SL2 includes Serato DJ with 2 Serato Control Vinyl and 2 Serato Control CDs.







CONNECT TWO CONNECT THE SL3 AUX THE POWER SUPPLY MAINTAINS AUDIO WHEN USB IS UNPLUGGED. PUT TO A MIXER OUTPUT TO RECORD YOUR MIX. CONNECT THE SLO AUX OUTPUT TO A MIXER INPUT FOR DIRECT SAMPLE SET THE CD / PHONO SL3 AUX INPUT MAY CONNECT TO A THIRD DECK. FOR EACH DECK PLAYBACK HIIIF 0 0 0 0 0 0 0 0 0 0 Ō 0

3-deck interface for professional DJs

The SL3 connects one, two or three standard vinyl or CD turntables to your computer and the mixer of your choice. This intuitive system replicates the traditional DJing experience for "real feel" usability. With unparalleled performance and stability, you'll soon see why thousands of DJs worldwide choose Rane with Serato software.

The auxiliary input provides a live input feed for creative sampling, recording your set or using a third vinyl turntable or CD deck. The auxiliary output delivers a third deck or the SP-6 sample player output to a dedicated input on your mixer. Studio-grade phono preamps, 24-bit audio processing, galvanic isolation, and a hot 3Vrms signal deliver the best possible sound from your laptop to your mixer.

The SL3 includes two 12" Serato Control records and two Control CDs, USB cable, and RCA audio cables to your mixer. An international power supply with country adaptors is included to insure easy transfer when unplugging USB between DJs or playing regular vinyl and CDs.

SL3 feature enhancements include:

- Supports up to three turntables or CD decks switchable in any combination.
- Aux Input for Live Mix Recording, LiveFeed or a third deck.
- Aux Output can be assigned to the Serato DJ SP-6 Sample Player or a third deck.
- 6-in 6-out sound card with any popular DJ or DAW software.
- Software and driver-switchable Direct Thru connections for regular vinyl or CD.
- External power supply included to provide Direct Thrus without a computer.

The SL3 interface box is 6.8" x 5" x 1.3" (17.3 x 12.6 x 3.3 cm). See the "Minimum System Requirements" on page 33.









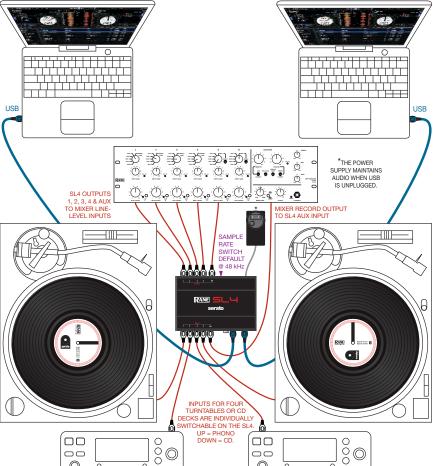


The SL3 includes Serato DJ with 2 Serato Control Vinyl and 2 Serato Control CDs.

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4 decks and 2 computers with your favorite mixer

The SL4 connects up to four vinyl turntables or CD players to one or two laptops, using the mixer of vour choice.

The SL4 is the first standalone DJ interface with two USB ports for seamless DJ changeover and back-to-back performances. Get superior sound with high quality 96 kHz, 24-bit audio. Built-in galvanic isolation between USB and audio, with turn on/off muting, ensures that only the purest interference-free audio signal is heard. Lowlatency ASIO and Core Audio drivers allow using the SL4 as a studio production tool with all of the popular DJ and DAW software applications.

The SL4 includes four 12" Serato Control records and four Control CDs, two USB cables, and RCA audio cables to your mixer. An international power supply with country adaptors is included to insure continuous performance between DJs.

SL4 feature enhancement summary:

- Supports up to four turntables or CD decks switchable in any combination.
- Two high-speed USB ports for two DJs for uninterrupted performances.
- Fifth Aux Input for session recording in Serato DJ or other audio program.
- Fifth Aux Output assignable to the Serato DJ SP-6 Sample Player.
- 48 kHz and 96 kHz sample rate switch on the SL4 rear panel.
- 10-in 10-out USB sound card compatible with all the popular DJ and DAW software.
- Bus power from either USB port or the included external power supply.

The SL4 interface box is 7.25" x 5" x 1.7" (18.4 x 12.6 x 4.3 cm). See the "Minimum System Requirements" on page 33.









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The SL4 includes Serato DJ with 4 Serato Control Vinyl and 4 Serato Control CDs.



The collaboration continues with more Rane products designed to work with Serato DJ software.

Serato DJ provides support for DVS (digital vinyl system), iZotope FX, Sync, Slip Mode, more Cue points, jumpto-loop, 24-slot sampler, and takes advantage of Rane's high performance, ultra-low latency ASIO and Core Audio drivers.

Serato software combined with Rane hardware is the ultimate solution for professional DJs, using your turntables or CDJs with Serato Noisemap™ discs to control Serato DJ. This intuitive DVS replicates the traditional DJing experience for "real feel" usability. With unparalleled performance, sound quality and stability, you'll know why thousands of DJs worldwide choose Serato and Rane.

Serato's famous Virtual Decks give you all the key track information. Easy to read real-time BPM, time remaining/elapsed, track progress, pitch information and cue point indication are all clearly displayed.

Full color waveforms visually represent the audio frequencies. Red represents bass, green is mid-frequency and blue represents high treble sounds. The track Overview shows you playhead location and what's coming up.

Library management of your audio and video files is a breeze. Organize your music, build crates, view previous sets and add album art. Serato DJ can also load your iTunes library. Prepare audio files for playback with auto-gain and BPM calculation.

Use keywords, genre, BPM or other rules to create Smart Crates that automatically update. Choose from multiple horizontal or vertical display modes to suit your performance style.

Serato DJ Highlights

 Always a controversial subject, sync is finally here for DVS DJs that want it. Hit sync to get tracks in time quickly, allowing you to do other things instead of moving the pitch slider. Try it, you might like it! If you don't, disable it and never see it again.



Classic Vertical Mode with two decks.

- Includes FX powered by industry leaders iZotope, enabling you to manipulate your songs and add another dimension to your mix.
- Use Slip Mode when scratching, using cue points and loops or other performance features, then when you've finished the playhead jumps back to where it would of been, always on beat.
- Set and trigger up to 8 Cue Points and 8 loops. Jump to different sections in your track, loop with Manual and Auto loops or drop a loop roll with ease.
- Trigger your favorite stings, samples and loops over your tracks with 4 Banks of 6 sample slots. The SP-6 sample player has two views to suit your preferences, Advanced mode, designed for preparing your samples, and a Simplified mode with minimum controls to focus on what is important during your performance.

Optional plug-ins

Serato Remote and **Serato Remote Mini** lets you see and perform Serato DJ functions from a iOS smartphone or tablet.

Serato Flip lets you create custom edits to extend and reimagine your music.

Serato FX Expansion Packs are powered by iZotope with Single and Multi modes to grow your effects arsenal.

Serato Pitch 'N Time DJ lets you speed up or slow down your track to extreme tempo values while maintaining its key perfectly.



Horizontal Stack Mode with four decks on the SL4 or the Sixty-Four.

Serato Video lets you control video playback just as you do with audio. Easily manipulate your videos with a large number of visual effects and transitions or add your own images, graphics and text to your performance.

MixEmergency is also compatibile with Serato DJ.

Minimum System Requirements

- Available 2.0 USB port
- 1280 x 720 screen resolution
- Intel 32 & 64-bit: i3, i5 or i7 1.07 GHz+
- 4 GB RAM
- 5 GB free HDD space

MAC: OS X 10.9 or 10.10

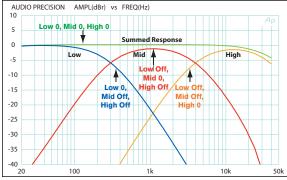
WINDOWS: Windows 7, 8.1 or 10

These are the **minimum** requirements to run Serato DJ without optional plugins. For best performance we recommend a higher spec computer. If you have a large library, you will benefit from more RAM. Please visit serato.com before purchasing a new computer.

RANE TTM 56S

Rane takes performance mixer design as seriously as DJs take their art form. The TTM 56S is flexible, durable, and feature packed. The audio quality qualifies it for use in the most demanding live venue, recording studio or live broadcast applications.

- Mic input with tone controls and mic effects loop.
- Faders and Crossfader have Contour and Reverse controls
- Stereo Aux Input for session mix, MP3 player or keyboard.
- Stereo Aux Output for session mix, booth, recording.
- Post-fader FlexFX[™] allows external reverb and echo decay effects to respond to fader action without cutting off tails.
- All four inputs are Phono/Line switchable, letting you connect four turntables, four CD decks or any combination.
- Both 1/4" and 3.5 mm headphone jacks on the front panel.
- Unit size: 13.3" x 10" x 3" (33.8 x 25.4 x 7.7 cm)



3-BAND ACCELERATED-SLOPE™ FULL-CUT EQ

High, Mid & Low tone controls react from +6 dB to **off**, for complete bass and treble cut on each channel. Engage switches allow A/B comparison and the ability to quickly cut or add tone effects.

NON-CONTACT CROSSFADER AND CHANNEL FADERS

Rane's magnetic fader is the fastest, most accurate, and longest lasting on the planet. The design uses non-contact magnetic position sensor technology previously reserved for aerospace applications. Unlike optical non-contact faders, the magnetic fader is impervious to smoke, moisture, temperature and aging. The electrical performance is totally unaffected by use. No noise, no bleed — ever!







DJ Hardware Comparison Guide

2-deck mixing 3-deck mixing 4-deck mixing Two USB ports for two computers Mic input Phantom-power Mic input	•	•	•	•	•	•	•	•	•
4-deck mixing Two USB ports for two computers Mic input		•	•						
Two USB ports for two computers Mic input						•		•	
Mic input			•			•		•	
•			•	•	•	•	•	•	
Phantom-power Mic input				•	•	•	•	•	•
						•		•	
Second Mic input						•			
Mic input tone controls				•	•	•	•	•	•
Mic Input FlexFX					•	•	•		
3-band full cut tone controls				•	•	•	•	•	•
Magnetic mixer faders				•	•	•			•
FlexFX send / return loop				•	•	•	•	•	•
FlexFX USB software insert				•	•	•			
FlexFX Built-in mixer effects					•	•			
USB bus powered	•	•	•						
Self-powered (100-240 VAC)				•	•	•	•	•	•
USB input for Serato SP-6				•	•				
Serato SP-6 trigger buttons				•	•	•			
Serato Cue trigger buttons				•	•	•			
Serato Loop controls				•	•	•			
Serato Library controls				•	•	•			
Aux / Session input & output		•	•	•	•	•	•	•	•
Aux inputs				2		1	2	1	
24-bit converters	•	•	•	•	•	•	•	•	
44.1 kHz USB audio	•	•		•			•	•	
48 kHz USB audio	•	•	•	•	•	•	•	•	
96 kHz USB audio			•	•			•	•	
Main output connectors	RCA	RCA	RCA	XLR	XLR	XLR	XLR	XLR	1/4 TRS
1/4" TRS Booth outputs				•	•	•	•	•	
1/4" & 3.5 mm headphone outs				•	•	•	•	•	•
Split cue headphone monitor				•	•	•	•	•	
MIDI mappable controls	•	•	•	•	•	•	•	•	
MIDI beat clock in /out					•	•			
Core Audio / ASIO for audio software	•	•	•	•	•	•	•	•	
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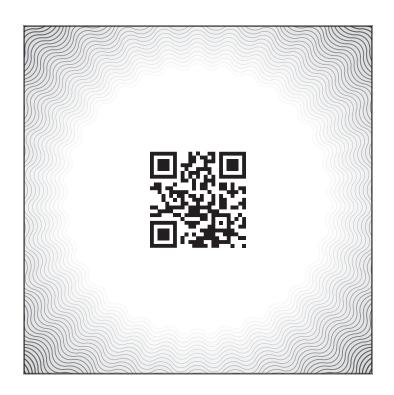
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