

# HDSP RPM

Turntable / CD / MIC / MIDI Interface



## Overview

The RPM allows for the connection of 2 turntables or 2 line-sources (CD, DVD, sampler etc.) and a microphone to a desktop or laptop computer. A total of 5 independent inputs are routed to 2 stereo outputs plus a separate headphone output, which lets you monitor any of the in- and outputs at any time via TotalMix, RME's unique DSP based mixer. External devices can be connected via MIDI I/O to communicate with any adequate audio software.

Application examples:

- Phono/CD/Mic interface. The computer only supplies the user interface and the level meters of the mixer (TotalMix).
- As above, with sound files playing at the same time.
- As above, recording the complete session to the computer.
- All audio is supplied by the computer. The RPM serves as mic preamp, line output and headphone amplifier.
- The turntables do not play audio but time code to remote control dedicated DJ-software (DigiScratch, PCDJ Scratch etc.)
- Scratch control via MIDI input (external MIDI controller).
- The MIDI output controls an external sample player (Groovebox etc.) via MIDI time code.  
The analog output of the player can be mixed with any other signal using the line input of the RPM and TotalMix.

## Connectivity

- 1 x Mic Pre Analog Input
- 2 x Phono Input
- 6 x Analog Output

## Features

- TotalMix™
- SyncAlign™
- DigiCheck
- ZLM™

## Inputs and Outputs

**Inputs:** Neutrik XLR/phono combo jack on the front panel gives access to a microphone preamp with the same discrete Class-A frontend found in the RME QuadMic. Its level control ranges from 10 to 60 dB to match any application and microphone. Two low-noise turntable inputs (Cinch/RCA) with integrated RIAA frequency correction for moving magnet cartridges are located on the back panel. A simple mouse click in the settings dialog lets you change the hardware input sensitivity in three steps within a range of 6 dB. Align the output of your turntables with other equipment connected and optimize the input signal fed to the internal A/D converters.

To connect CD-players, tape decks, samplers or other line sources, the phono inputs can easily be switched to "line" with another mouse click. A 6 dB pad function can be engaged to prevent overload, and to optimize gain and level balance between different sources.

**Outputs:** Two individual stereo line signals can be output at the back panel's Cinch/RCA connectors. The signals present at the MAIN outputs are also available at an additional pair of balanced stereo TRS jacks, with their levels increased by 6 dB. Possible applications would be e.g. simultaneous connection of a tape deck and a professional power amp, a monitor amp and a DI box on stage, and many more.

The stereo jack on the front panel can be used as an additional (third) independent stereo output, or as a headphone connector. The RPM comes with a built-in hardware mixer based on RME's TotalMix technology. Its capability to route and mix any of the inputs and outputs provides the RPM with 3 independent stereo submixes. TotalMix offers perfect monitoring and PFL functionality, removing the need for an additional external mixing desk in many cases.

## Features

**Stand-Alone-Operation:** RME's exclusive Disconnect mode lets you adjust level, input selection and signal mix via your computer, and simply detach the RPM afterwards. If you do not need to record or playback audio with your computer the RPM still serves as a preset mixing preamp, a microphone preamp, headphone mixer or line-splitter with balanced signal output - whatever you need.

**Bypass:** In case of power failure or with your computer disconnected, the phono inputs will be hard-patched to the line outputs. Even in an emergency the unit will still serve as a phono preamp and prevent a complete audio dropout

**Performance:** RME's outstanding Low Latency and Zero CPU technology, both not possible via USB, have made the products of the Hammerfall DSP series world-famous. The RPM follows this road by offering the best possible performance via PCI technology with PCI card or CardBus card as basic interface. RME's low latency drivers for PC and Mac offer excellent performance with any professional DJ-tool such as BPMStudio or Traktor, at latencies down to 1.5 ms and full ASIO 2.0, GSIF and MME (Wave) support.

**TotalMix and MultiClient:** The RPM's driver provides 12 playback channels. These can be routed and mixed freely to the existing 6 hardware outputs using TotalMix. Since this technology allows for the simultaneous use of several software clients (multi-client mode), you can run up to 8 audio programs playing audio on separate playback channels.

**DIGICheck:** RME's Hammerfall DSP series comes with DIGICheck - an unrivalled analyzing tool for your computer. It can run either stand-alone or in parallel to any application, displaying input and output signals in various ways and in real-time. DIGICheck comprises several professional level meters, a 30-band analyzer, a goniometer (vector scope), as well as various digital analysis tools. Any of these can be engaged at the same time and in multiple instances.



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