

REDNET MP8R

Focusrite®



8-channel remote-controlled mic pre and A/D for Dante networks

RedNet MP8R is an 8-channel remote-controlled microphone preamplifier and A/D for the Dante audio-over-IP network. Developed from the RedNet 4 studio remote-controlled microphone preamp, and incorporating input from leading live sound practitioners during its development, the MP8R provides a wealth of features that make it particularly applicable to the live sound/recording and broadcast environments, and other workflows where reliability is paramount.

PSU and Ethernet redundancy

Dual Ethernet ports with locking etherCON connectors are provided, with several operating modes including daisy-chaining and redundancy confirmed by front-panel indicators. Two separate power supplies with fault detection capability are included, with separate power input sockets (with retaining clips) on the rear of the unit. The state of each power supply is indicated both remotely and on the front panel. The MP8R features a rugged, roadworthy exterior and high internal build quality. In addition, the unit offers a compact 1U rack-mount form factor.

Award-winning preamps

The MP8R preamps represent the latest iteration of Focusrite's award-winning mic pre designs, with a pedigree that stretches back to the original Focusrite products of the mid-1980s. Fully keeping pace with the latest developments in audio technology, today's Focusrite preamps offer lower noise, great dynamic range and better Common Mode Rejection than ever before.

The preamps in the MP8R offer an increased maximum input level of 28dBu, plus a 20dB pad, high-pass filter, polarity inversion and phantom power. Each preamp has a dual input impedance of 10k or 2.4k ohms, allowing flexibility when running multiple mic pres in parallel.

About RedNet

Launched in 2012, Focusrite's RedNet range was one of the first to adopt the Dante audio-over-IP network as the infrastructure for a new and versatile range of products.

Since then, RedNet has become increasingly popular for a diverse range of audio applications, from theme parks to opera, from studio to major live events.

RedNet has become known for its quality and reliability – the latter a feature that is brought even more to the fore by the inclusion of redundancy capabilities – as well as proving exceptionally simple to operate and offering the best-sounding audio-over-IP solution available and full operability with other Dante devices.

Powered by
 Dante™

Key Features

- Built-in redundancy with dual power and network connections
- Rugged roadworthy all-metal construction, high build quality, locking power and etherCON Ethernet connectors
- Eight Focusrite remote-controlled preamps with enhanced input level capability, and dual input impedance to deliver maximum performance when one mic feeds single or multiple pres
- Two outputs from each preamp: one direct and the other automatically gain-compensated to deliver a constant level
- 20dB pad, HPF and polarity inversion per input
- Operate locally, or remotely via RedNet Control software, Pro Tools, MIDI or OCA (Open Control Architecture – available 2015 via firmware update)
- Precision low-latency conversion at up to 24-bit/192kHz, with best-in-class dynamic range and overall audio quality
- 6-segment LED level meters; OLED display indicates input gain and system information
- Compact 1U form factor
- Total interoperability with other Dante products and networks



1 – Dual AC inlets with cable clips 2 – Dual locking etherCON Ethernet connectors 3 – Analogue Inputs (1-8)

DSP gain tracking

The MP8R includes a sophisticated gain tracking ability, appearing as a 16-channel device on the network, the first eight channels being direct preamp feeds, while the remaining eight are automatically DSP level-compensated outputs sourced from the first eight. This architecture allows “splits” – such as monitor/FOH – to be set up in the digital domain, permitting one engineer to control the analogue mic gain while a second receives an output level that is constant irrespective of the analogue mic gain setting.

Local or remote control

The preamps may be controlled remotely in a variety of ways, including via the RedNet Control software package, Pro Tools and MIDI, and OCA (Open Control Architecture – supported via 2015 firmware upgrade); in addition, the preamps can be operated from the MP8R front panel, where 6-segment level metering, numeric gain display and other indicators provide comprehensive monitoring of the unit’s operation.

High-precision conversion

Following the mic pres are eight channels of Focusrite’s legendary high-precision A/D converters, operating at up to 192kHz/24-bit with minimum latency and offering class-leading dynamic range and overall performance.

Full Dante interoperability

Like the entire RedNet product range, the MP8R interoperates seamlessly and fully with any other Dante audio-over-IP network components and infrastructure. Patching and interconnection can be managed with the Dante control software.

The RedNet Range



D16R – AES3 Bridge



HD32 – HD Bridge



D64 – MADI Bridge

See the rest of the range at
www.focusrite.com/rednet



Specifications

Connectors (rear panel)

- 2x etherCON locking Ethernet connectors – also compatible with standard RJ45 connectors
- 2x IEC power connector with retaining clip: 100–240Vac, 50/60 Hz. Cord retaining clips included.
- 8x XLR3F analogue audio inputs

Controls (front panel)

- Power on/off
- Channel select buttons (1-8)
- Info, 2.4/10kΩ input impedance, 20dB pad, +48V Phantom Power, HPF and Polarity illuminated buttons
- Gain setting knob

Indicators (front panel)

- PSU A and PSU B power supply active LEDs
- Network: Primary, Secondary and Locked LEDs

- Sample Rate: 44.1kHz, 48 kHz, x2, x4 and Pull LEDs
- 8x 6-segment level displays
- Gain (dB) and status indication for selected channel via OLED display
- Illuminated buttons: Info (displays device data on OLED panel), 2.4kΩ input impedance, –20dB, +48V, HPF and Polarity

Microphone Inputs

- Gain range: 0 dB to 55 dB in 1 dB steps
- Type: Electronically balanced, $Z_{in} = 2.4/10\text{ k}\Omega$
- Max. input level: +28 dBu
- Frequency response: 20 Hz – 55 kHz $\pm 0.1\text{ dB}$
- Phantom power: 48 V, independently switchable per-channel

Analogue High-Pass Filters

- Selection: Independently switchable per-channel
- Frequency/slope: –6 dB @ 65 $\pm 3\text{ Hz}$, 12 dB/octave

Digital Performance

- Supported sample rates: 44.1, 48, 88.2, 96, 176.4, 192 kHz
- Clock sources: Internal or from network master device