

EDUCATION

REDNET®

Focusrite's Finest Sound. Networked.

Powered by
 **Dante™**

Focusrite®

ABOUT REDNET

RedNet is Focusrite's flagship range of modular audio over IP interfaces that harnesses the power of the Dante digital audio networking protocol to bring studio quality sound to any modern audio application.

RedNet units can be combined to form scalable, near-zero latency audio distribution and recording systems, which allow you to send, receive and record extremely high quality audio over your existing network infrastructure via standard Cat5e or Cat6 Ethernet cables.

Open up to a whole new world of collaborative teaching and learning opportunities.

With RedNet the possibilities are endless.





THE FOCUSRITE SOUND

RedNet is no exception to Focusrite's philosophy that 'sound is everything'. In fact, Focusrite took this philosophy one step further with RedNet, a technology which embodies the company's most advanced A-D/D-A conversion to date along with rock-stable JetPLL clocking and premium 'red' analogue circuitry.

With every design detail meticulously engineered, RedNet is a step above its competition, providing some of the most transparent and pristine audio quality available – with the added benefit of the system's revolutionary networking capabilities.

**“ RedNet is the sound that I like,
in a format I can use,
by a company I respect. ”**

CHRIS LORD-ALGE,
GRAMMY® AWARD-WINNING PRODUCER/ENGINEER, USA



“ You don’t want to rebuild your entire studio setup because you’ve switched to a networked audio solution...

RedNet tied in seamlessly with our existing Pro Tools setups and can be easily expanded if needed. ”

JAN KLOMP,
TECHNOLOGY COORDINATOR, SAE, EUROPE

COST-EFFECTIVE FUTURE-PROOF SOLUTION

RedNet allows you to take advantage of your existing IT network infrastructure with minimal installation impact. Audio is carried over standard Cat5e or Cat6 Ethernet cable, at a fraction of the cost of analogue multicore cable. What’s more, RedNet units can easily be moved, added or replaced as your requirements change – it’s simple, unplug the Ethernet cable and move the units to your desired location.

Featuring multiple connectivity options for analogue, digital, MADI, AES3 and Pro Tools|HD audio equipment, RedNet seamlessly integrates with your existing setup, saving you time and money. Additionally, RedNet units are completely interoperable with any other Dante-enabled product from other manufacturers.

“ As the needs and physical layout of our programmes change, **RedNet will allow us to change our audio setup without expensive and time-consuming rewiring.**

Wherever we go, **RedNet goes with us.** ”

STEVE QUICK,

AUDIO TECHNOLOGY PROGRAM COORDINATOR, NORTHWESTERN
MICHIGAN COLLEGE, USA

INTERFACE WITH ANY CORE AUDIO, ASIO OR PRO TOOLS|HD SYSTEM

Designed with multiple applications in mind, there are various solutions for connecting a RedNet system to a computer. Connect Pro Tools|HD, Pro Tools HDX and Pro Tools|HD Native systems to your Mac or PC with use of the RedNet 5 Interface. ASIO and Core Audio applications (Logic, Cubase, Nuendo) can be connected with the use of a RedNet PCIe card, as well as being able to connect directly to your computer's Ethernet port by using the 'Dante Virtual Soundcard'.





PLUG & PLAY FLEXIBILITY

Build appropriate installations on the fly, combining RedNet interfaces whenever and wherever they are required, making the best use of limited resources to cover increasingly diverse educational needs. Place the appropriate RedNet interfaces in any room in your facility that has a standard Ethernet port, plug the units into a Gigabit switch, plug that into the wall and you're done. Interfaces are remotely-controlled from any computer on the network, allowing students to take advantage of the full range of studio equipment in the control room as well as utilising any sonic space in the building with an Ethernet port. Record and distribute audio to and from performance areas, rehearsal rooms, OB vans or any other space in your facility with access to an Ethernet port.

“ The world is your oyster. We just plug it in anywhere, and it just works...

Having this kit and being able to use it in different ways is really great for us. ”

JOHN CROSSLEY,

SUBJECT LEADER OF POPULAR MUSIC PRODUCTION, UNIVERSITY OF DERBY, UK



“ The most important thing to understand about RedNet is the power of the Dante audio networking protocol, which in our opinion is **superior to other Ethernet based audio systems.** ”

OSKAR SKAAG,
ARCADA - UNIVERSITY OF APPLIED SCIENCES, FINLAND



ABOUT THE DANTE NETWORK

RedNet employs Dante's digital audio networking protocol, which delivers a no hassle, self configuring, plug-and-play digital audio networking solution that uses standard Internet Protocols over Gigabit Ethernet. The Dante protocol distributes digital audio plus integrated control data with sub-millisecond latency, sample-accurate playback synchronisation, extreme reliability and high channel counts.

Dante excels in applications where a large number of audio channels must be transmitted over long distances or to multiple locations. In situations where I/O channels need to be added to an existing system, Dante offers significantly reduced cabling requirements compared to traditional audio distribution solutions, without the need for expensive and bulky audio routers or patchbays.

Dante has proven to be the audio networking protocol of choice with over 150 OEMs currently licensing the technology and what's more Dante is a technology that's available today.



“**RedNet does everything I want it to do and the expandability is endless.**”

PHILIP REYNOLDS,
FOH SYSTEMS ENGINEER, THE KILLERS/QUEENS OF THE STONE AGE

“RedNet really takes us to places few educational or musical programmes can go... it changes the mindset. Instead of letting us just find new ways of doing old things, **RedNet lets us discover new ways of doing entirely new things.**”

JOHN THOMPSON,
ASSOCIATE PROFESSOR IN MUSIC TECHNOLOGY,
GEORGIA SOUTHERN UNIVERSITY, USA

“The best thing sonically about RedNet is the detail and width of the stereo image, which is a direct result of RedNet's next generation A/D - D/A design and premium analogue circuitry. **RedNet sounds more open, it's like taking the roof off your mix.**”

JAY HENRY,
RECORDING ARTS AND TECHNOLOGY,
SOUTHWESTERN COLLEGE, USA



“ There was no configuration, there was no learning timeframe; it just plugged in and worked. **It did everything we hoped it would do.** ”

DENNIS SANDS,
FILM SCORING MIXER, GOOD WILL HUNTING,
FORREST GUMP, SPIDERMAN

“RedNet is not only excellent studio I/O, it’s also enabled us to integrate teaching rooms, theatre production rooms, Mac labs and performance spaces into our roster of recording spaces **with only the installation of a Cat6 cable.”**

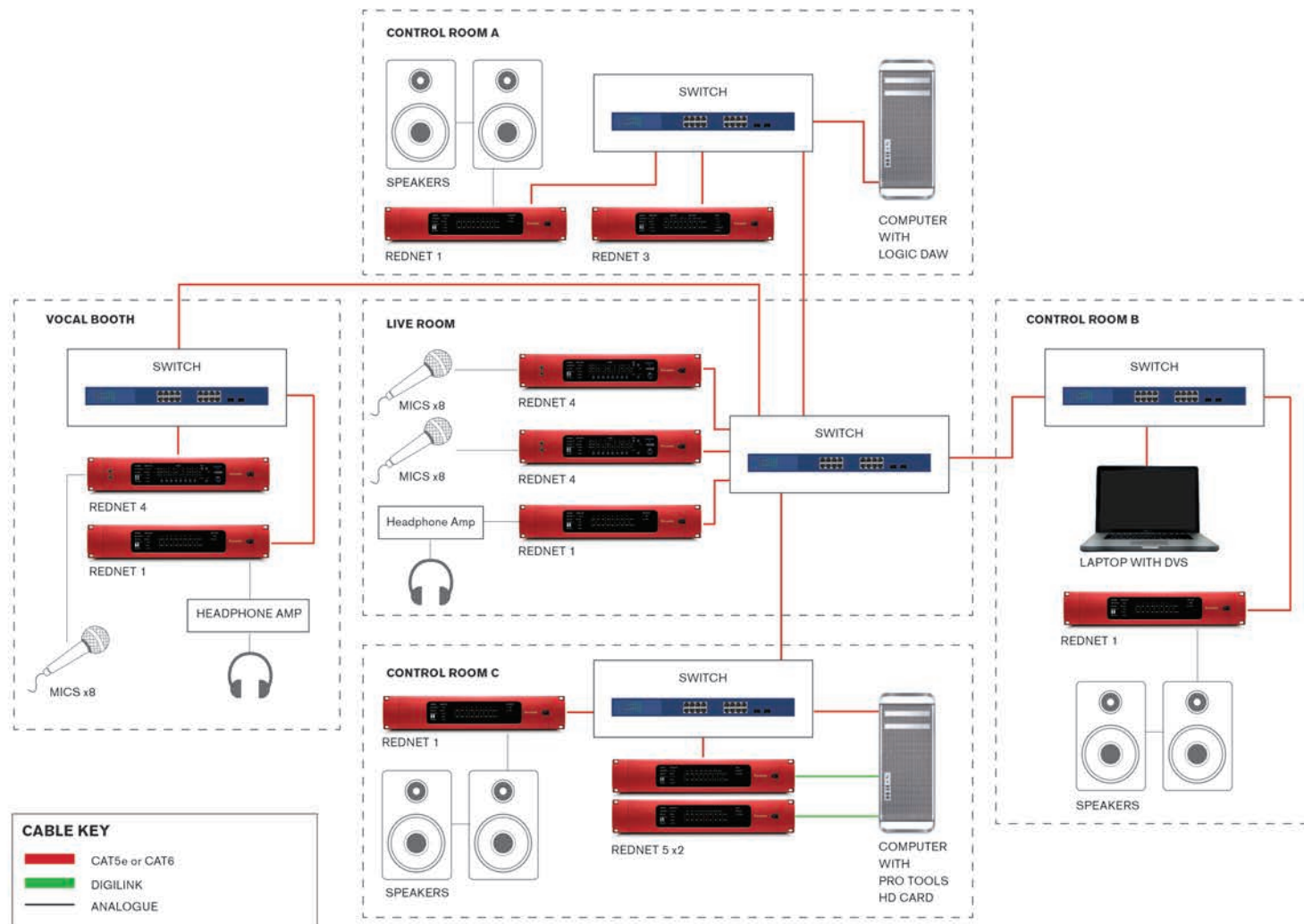
RICHARD LIGGINS,
TECHNICAL MANAGER, LONDON COLLEGE OF MUSIC,
UNIVERSITY WEST LONDON, UK

“The potential to use RedNet in a teaching environment is fantastic... **it’s so flexible and its cost-effectiveness meant we could have more systems.”**

WARREN BASSETT,
COURSE LEADER FOR AUDIO AND MUSIC PRODUCTION,
BUCKS NEW UNIVERSITY, UK

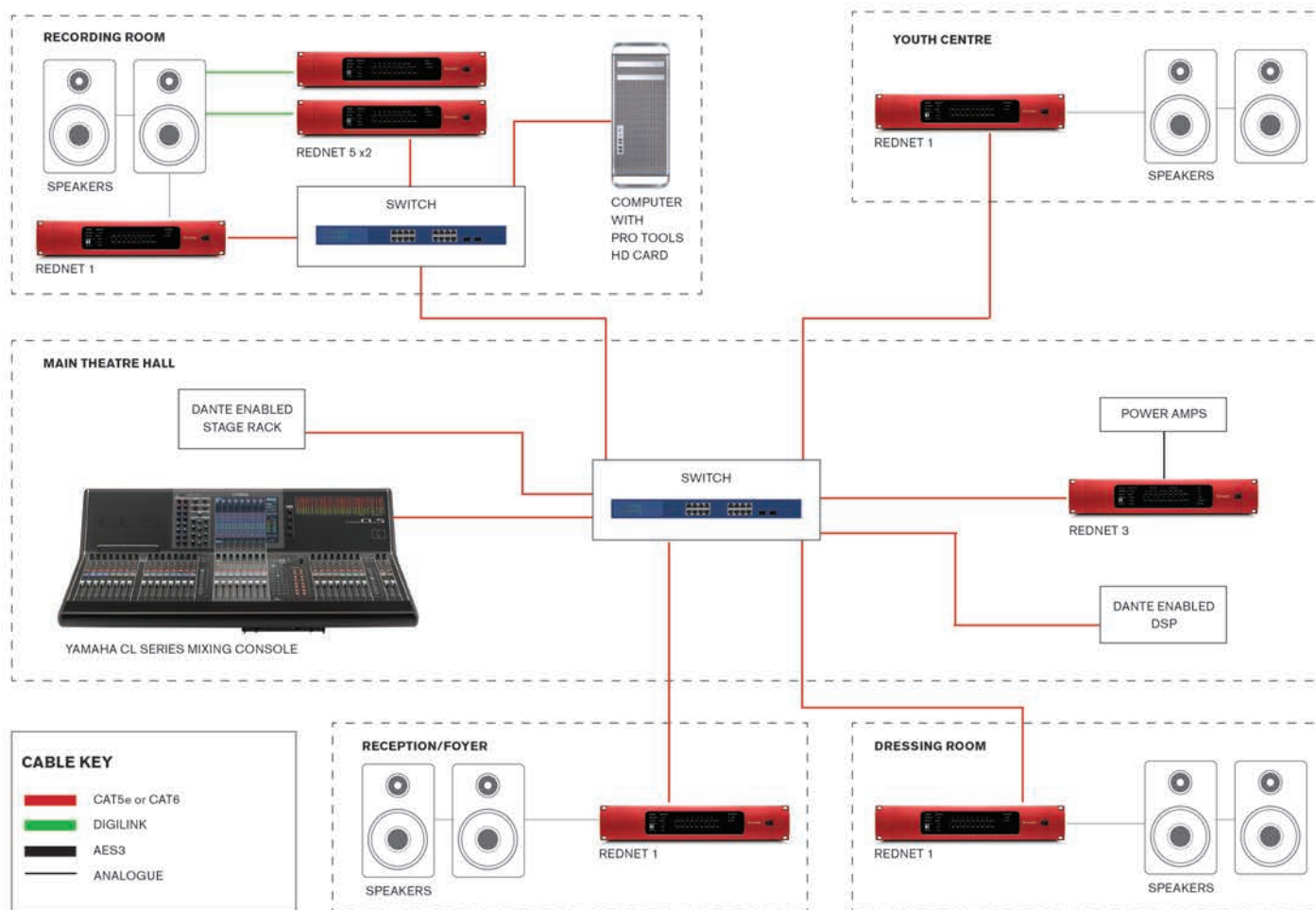
MULTI-ROOM RECORDING STUDIO

This diagram shows how a RedNet system could be implemented in a five room recording facility. In this example there are three control rooms that share a single live room and vocal booth. These rooms could be located anywhere in the facility with access to the network. A typical scenario would involve a band playing in the live room and vocal booth, whilst three separate groups of students record their own version of the same performance in various control rooms connected to the network.



AUDIO DISTRIBUTION/RECORDING

The diagram below shows the implementation of a RedNet system to simultaneously distribute and record audio across a large performance campus. In this example RedNet is also fully integrated with other Dante-enabled audio equipment. A live performance is being captured in the main theatre hall, which is being distributed to other rooms within the facility for playback and recording to Pro Tools|HD.



THE REDNET® RANGE

A-D/D-A CONVERTERS

RedNet 1 & RedNet 2 offer eight and 16 channels respectively of line-level analogue in and out, with Focusrite's precision 24-bit A-D and D-A conversion for superb audio performance.



REDNET® 1

8 channel A-D / D-A interface



REDNET® 2

16 channel A-D / D-A interface

DIGITAL INTERFACES

RedNet 3 interfaces 32 channels of ADAT in and out of the Dante network with optional S/PDIF and AES/EBU connectivity. RedNet D16 AES features 16 channels of AES/EBU connectivity to and from the network, incorporating network redundancy for maximum reliability.



REDNET® 3

32 I/O ADAT interface with S/PDIF and AES/EBU



REDNET D16 AES

16 channel AES/EBU I/O with
network redundancy

PRO TOOLS|HD & MADI BRIDGES

RedNet 5 and RedNet 6 bridge between the Dante network and Pro Tools|HD and MADI systems respectively, enabling the creation of fully integrated multi-protocol systems.



REDNET® 5

32 I/O HD Bridge - bridges between Dante and Pro Tools|HD systems



REDNET® 6

64 I/O MADI Bridge - bridges between MADI and Dante systems

REMOTE CONTROLLED MICROPHONE PREAMPS

RedNet 4 contains eight of Focusrite's next-generation remote controlled preamps/line inputs with two selectable DIs.



REDNET® 4

8 channel remote controlled mic preamp and A-D interface

REDNET DANTE PCIE CARD

Focusrite's RedNet PCIe card delivers up to 128 channels I/O between the Dante network and Mac or Windows computers at near-zero latency



REDNET® PCIe

128 I/O low latency Dante interface for PC and Mac

NOTES



REDNET SYSTEM SETUP



REDNET[®]

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Call us on +44 (0) 1494 462 246

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