

Explanation about DIRETTA ON RMP-UB1

Vr. 0.92

Since DIRETTA is a completely new technology,
this description may contain incorrect information at this stage.



1 What is the DIRETTA

Diretta is a new audio transmission technology over LAN (network line).

This technology aims to improve sound quality by keeping the load on the receiver constant, with the sending side of the sound source as the "host" and the receiving side as the "target".

A great effect of improving sound quality can be obtained when playing a high-resolution sound source with a USB-DAC.

In order to realize diretta, host and target are required.

How to use RMP-UB1

People who use a Windows PC with a USB DAC

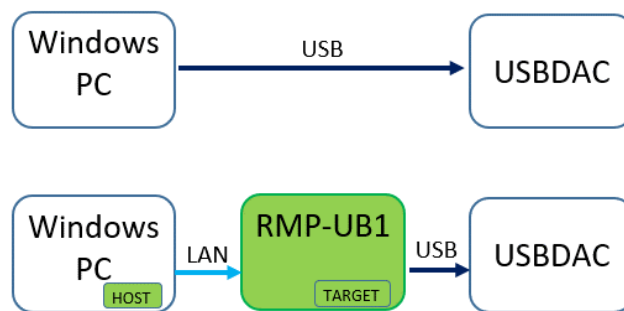


Figure 1

People connecting USB DAC from NAS via AP

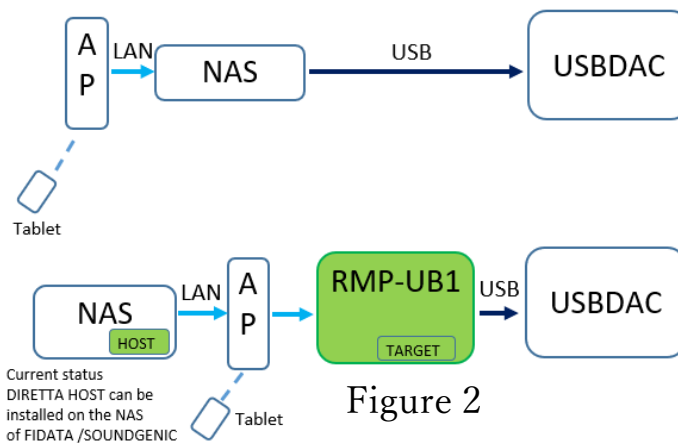


Figure 2

Only NAS of FIDATA and SOUNDGENIC can support DIRETTA.

2 Diretta sound quality improvement principle

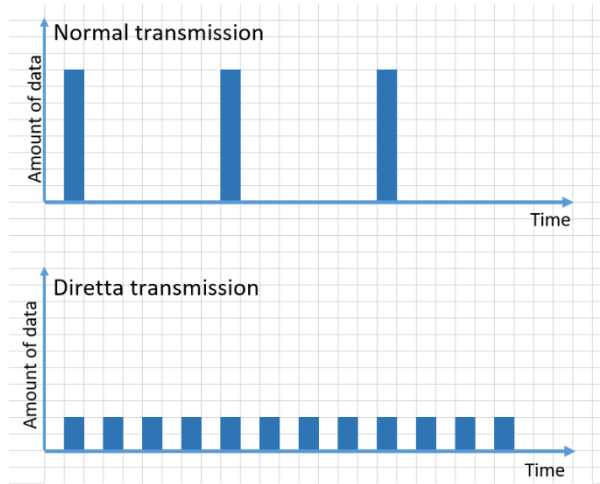


Figure 3

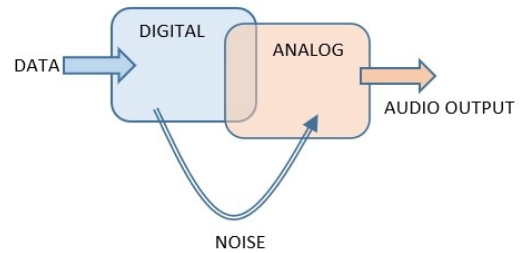


Figure 4

Noise can be reduced by continuously sending a small amount of data rather than processing a large amount of data intermittently. DIRETTA ON RMP-UB1 reduces the impact of digital signal processing on analog signals, mainly in DAC devices, by averaging the data sent to the USB DAC. This improves the dynamic SN.

RMP-UB1 is not a noise filter. By improving the dynamic SN of the system, the original timbre expression emerges. This greatly contributes to the SPEC philosophy of "realistic reproduction," and brings out the reality of live performances.

3 Why "RMP-UB1 FOR USB DAC"

As shown in the figure below, NETWORK PLAYER or USBDAC have the same components.

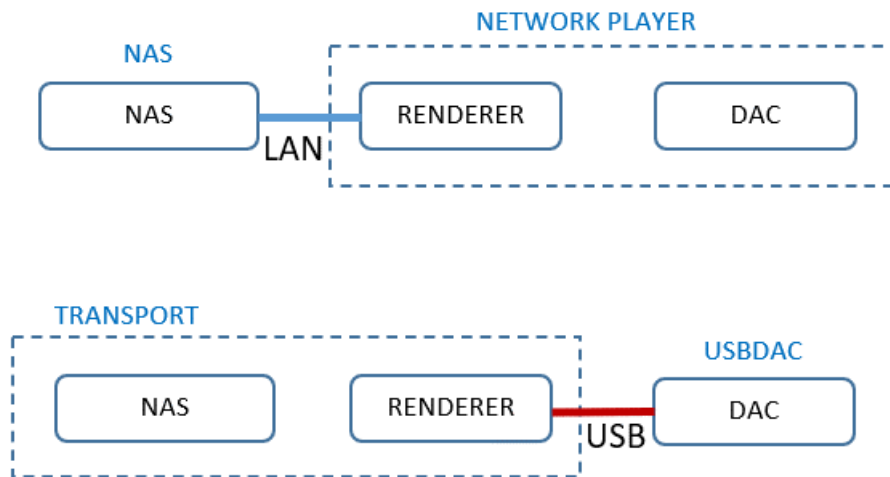


Figure 5

Recently, the renderer has been installed on the NAS side, so it is now easy to listen to high-resolution music on NAS with a USB DAC. Because USB DAC has a simple component, many manufacturers have entered the market. As a result, the range of choices has increased. The configuration of TRANSPORT + USB DAC became one form of the high-resolution playback. RMP-UB1 raises the quality of this USB playback.

4-1 About ROON support

For Windows PC, you can use ROON by installing HOST on your PC. (Fig1)

In case of MAC, we can not support it for now.

If you use NAS, you will need a PC that will be ROON CORE.

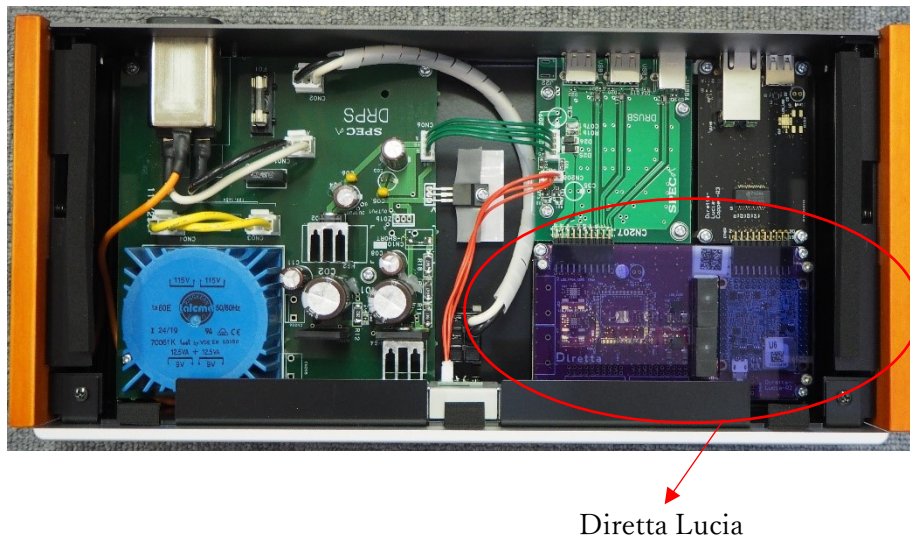
In the case of Nucleus, ROON support is not possible at this stage.

4-2 About MQA support

MQA data has been confirmed to pass through the DIRETTA system. However, since DIRETTA is a completely new technology, it may not be recognized depending on the combination. I think it is necessary to accumulate examples and make them better.

5Diretta Lucia

Diretta Lucia is the name of the system used by RMP-UB1EX.
The DIRETTA technology itself is not only for USB.



6 Specific effect of RMP-UB1

You will notice that the fine sounds that have been buried in noise emerge. Then, the tone of the instrument regains its original beauty, and you can feel the musicality that is close to your heart. The timbres of various musical instruments are characterized by the intricately mixed minute harmonics. In addition, you will also recognize a realistic three-dimensional effect. This is because the minute signal is the basis of the stereophonic sound field.

9 SPEC Philosophy

The most important thing for musical reproduction is the reproduction of minute signals

The effect of DIRETTA ON RMP-UB1 matches the spec philosophy of pursuing realistic musicality. DIRETTA ON RMP-UB1 lowers the noise floor of digital signal reproduction to bring out the musical core and stereoscopic expression contained in the source signal. This is because the minute signal expresses the basis of the timbre and constructs a stereophonic stereoscopic image.

The biggest issue in audio playback these days is this dynamic SN, not the static SN. Static SN ratios are found in many audio equipment catalogs, however, it is the dynamic SN ratio that impedes the purity of music.

SPEC has been developing various technologies to improve it. This DIRETTA ON RMP-UB1 will be a major factor toward that goal.

The SPEC's minute signal reproduction technology is as follows

REAL SOUND PROSESSOR

By absorbing the back electromotive force of the speaker, the reproduction of minute signals is improved.

CLASS D

By moving and stopping the speaker cone accurately, minute signals are reproduced clearly.

PUER DIRECT CONNECTION

The minute signal contained in the source signal is guided to the final stage of the amplifier without omission.

DIRETTA

Improve the dynamic SN of the high resolution signal reproduction system.

Requires network knowledge

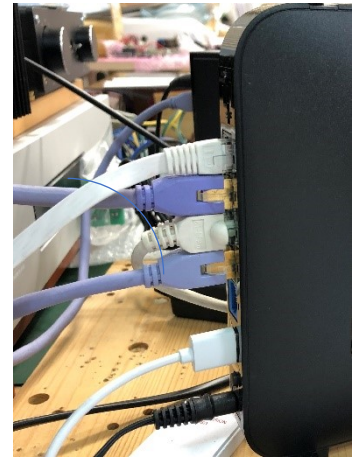
When using RMP-UB1, it is necessary to install the driver and make various settings on the network by yourself. To do this, you need a basic knowledge of networks.

SFP MODEL

There are two types of product regarding input format, LAN and SFP. The RMP-UB1SFP comes with SFP fiber module set, SFP COPPER module, and a fiber cable (1m, 24m).



LAN



SFP



Appearance

