SILENT ANGEL

High Performance Music Server
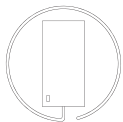
Rhein Z1 Plus

Table of Contents

Product Features

- Dual firmware design prevents the firmware from being damaged during upgrade.

- The dual network port design can connect the network and player at the same time.

- USB Audio Optimizer is an optimized USB audio processing.

- Event triggered system architecture minimizes system load.

- BNC external clock interface is applicable to external clock equipment
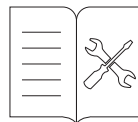
Package Contents

Z1 PLUS

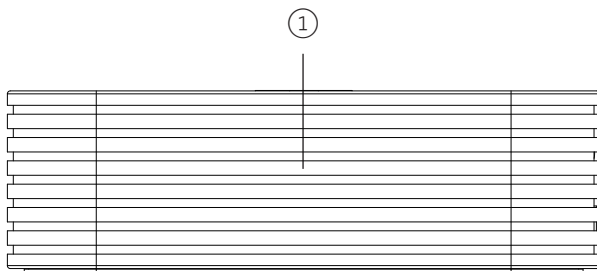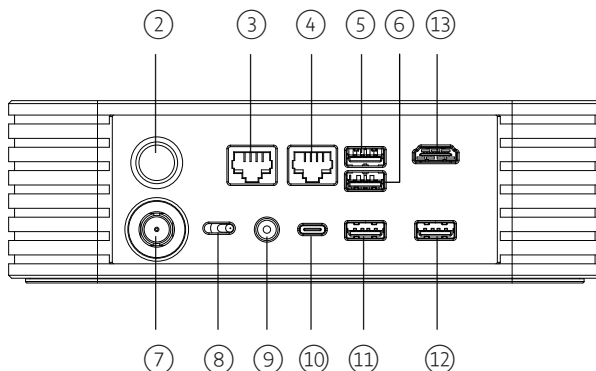| Power Adapter x1 | Power Cord x1 | Network Cable x1 | Product Manual x1 | Warranty Card x1 |

Front Panel

① Power Indicator

When the power is on, the blue light comes on
When the power is off, there is no indicator

Rear Panel

② Power Button

When the power is off, press the button to turn on the power
When the power is on, long press the button to turn off the power

③ Network Port

Supports 1000Mbps Ethernet Network and 100Mbps Ethernet Network

④ Player Port

Supports 1000Mbps Ethernet Network and 100Mbps Ethernet Network

⑤ Capacity Expansion Port

USB3.1 (USB 2.0 compatible)

⑥ Capacity Expansion Port

USB3.1 (USB 2.0 compatible)

⑦ Clock Input

25MHz clock Input port (BNC interface, 50 / 75 ohm impedance auto-detection)

⑧ Clock Selector(Slide the switch when the device is turned off)

To use external clock, slides to the side of Clock Input and power cycle
To use internal clock, slides to the side of Internal Clock and power cycle

⑨ DC Input

5.5mm x 2.5mm DC 12V power input (can be connected to Silent Angel F2 or suitable 12VDC linear power supply)

⑩ Type-C Interface

Reserved interface

⑪ Capacity Expansion Port

USB 2.0

⑫ USB Audio Output Port

USB AUDIO Ultra high resolution digital audio output
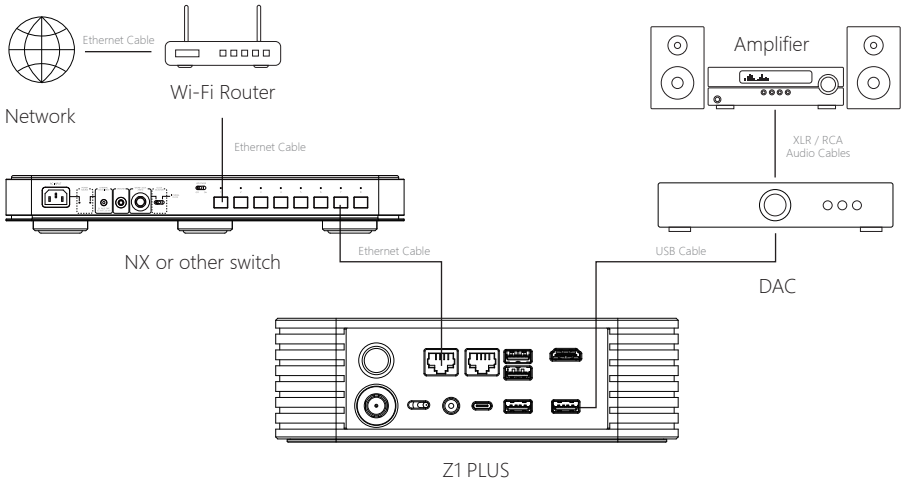
⑬ Maintenance Port

Only for engineers to maintain equipment, do not use

Preparation Work (1)

(!)   Make sure audio devices are all powered off.

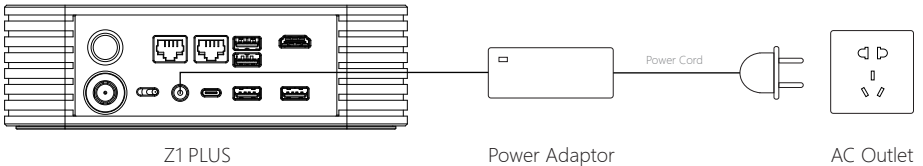Connect Z1 PLUS Network port to a Bonn series or WiFi router LAN port with an Ethernet cable.
Connect USB AUDIO port to a USB DAC with the USB cable.

Ethernet Cable

Network

Wi-Fi Router

Amplifier

Ethernet Cable

XLR / RCA
Audio Cables

NX or other switch

Ethernet Cable
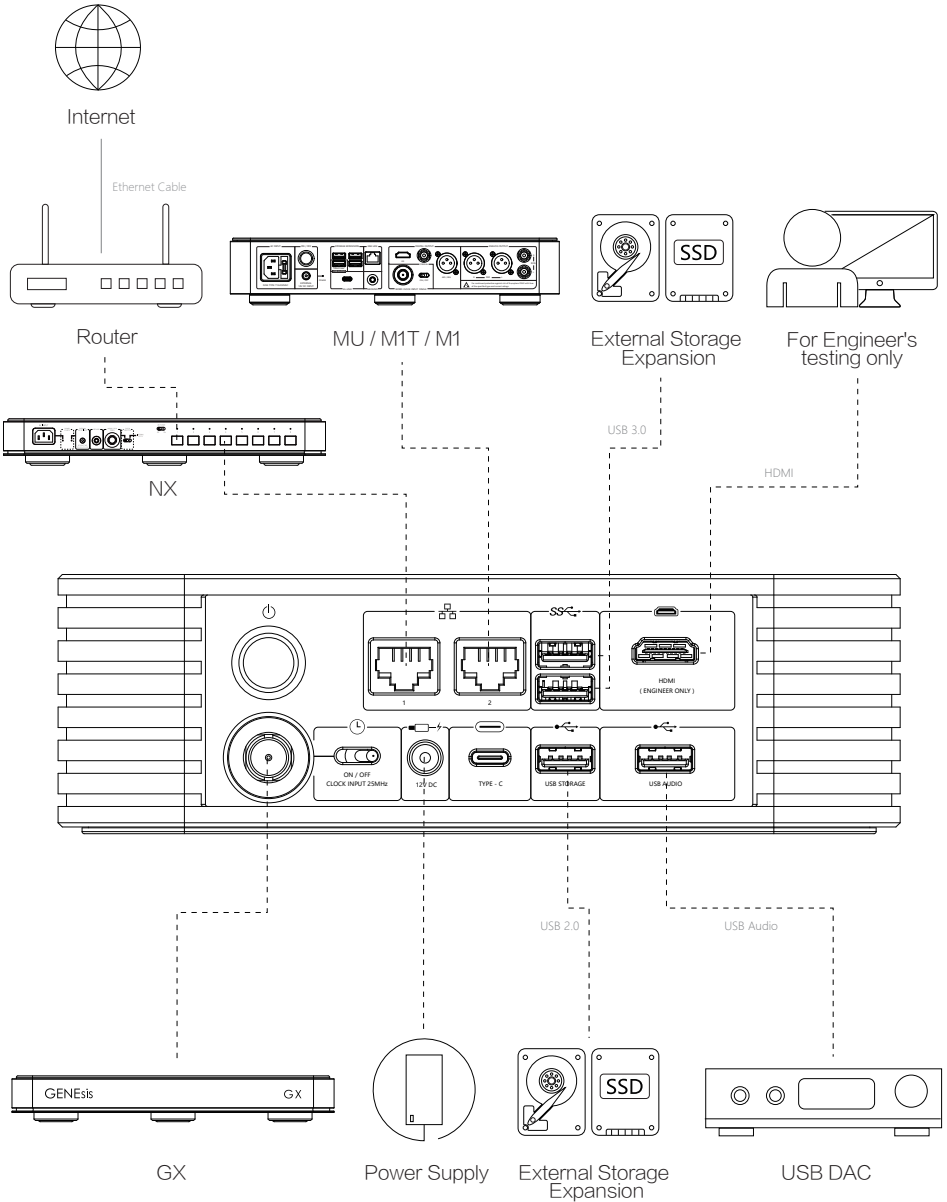
USB Cable

DAC

Z1 PLUS

Preparation Work (2)

Connect the power adaptor to the circular power inlet in the rear panel.
Connect the power adaptor to the AC outlet with power cord (Make sure the power cord has been plugged
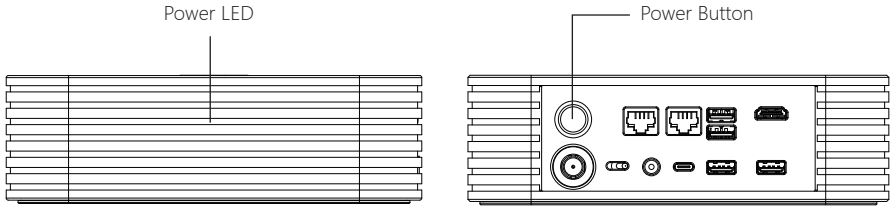into the power adaptor before plugging into the AC outlet on the well).

Z1 PLUS

Power Cord

Power Adaptor

AC Outlet

Advanced Connection Diagram

Internet

Ethernet Cable

Router

MU / M1T / M1

External Storage
Expansion

For Engineer's
testing only

NX

USB 3.0

HDMI

1 2

HDMI
(ENGINEER ONLY)

ON / OFF
CLOCK INPUT 25MHz

12V DC

TYPE - C

USB STORAGE

USB AUDIO

USB 2.0

USB Audio

GENEsis   GX

GX

Power Supply

External Storage
Expansion

USB DAC

Power On

Power on Z1 PLUS by pushing the power button at the rear panel. The power LED will light on.

Power LED

Power Button

Power on other audio devices

Install "VitOS Manager"App on a Pad or Phone

Use below QR code to install "VitOS Manager" app on a pad or phone.
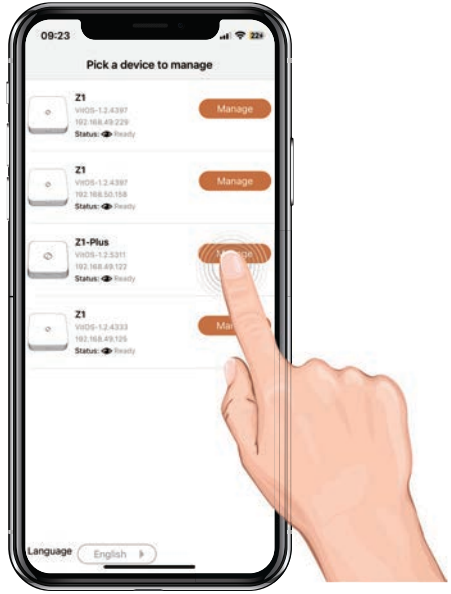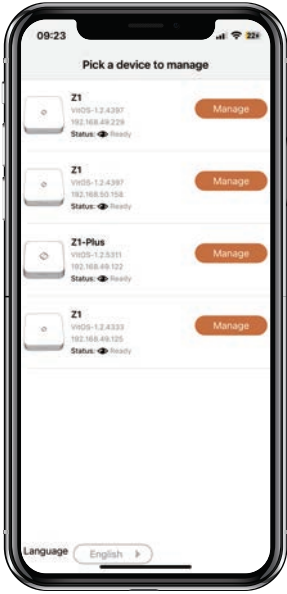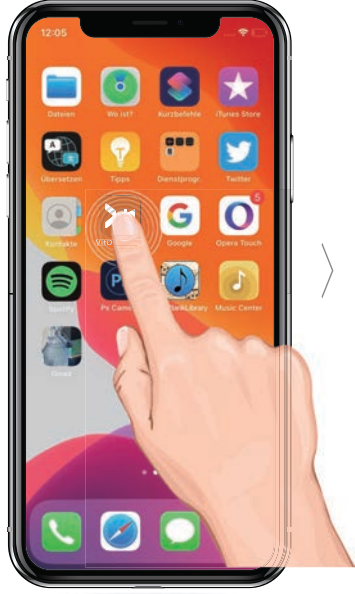
iPad / iPhone
(iOS)

Android Pad / Phone
(Google Play)

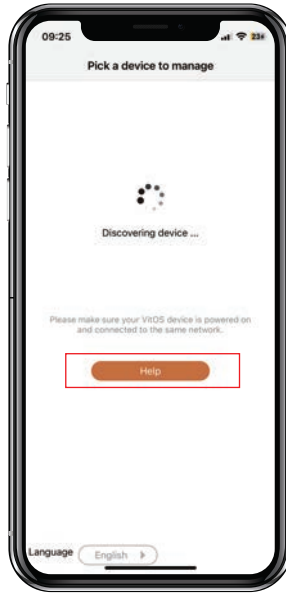Android Pad / Phone

Use"VitOS Manager" App to Control Z1 PLUS

By using"VitOSManager"app on a iPad/iPhone/Android Pad/Android Phone, which is connected to the same LAN, you are able to discover Z1 PLUS, install Roon Server to Z1 PLUS, view system status of Z1 PLUS, Please refer to the official website for more function instructions http://www.silentangel.com/.

Use Mobile Device to Control Z1 Plus
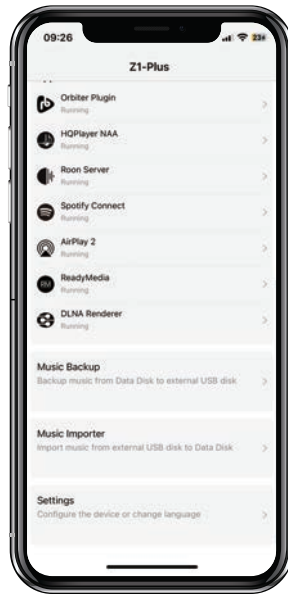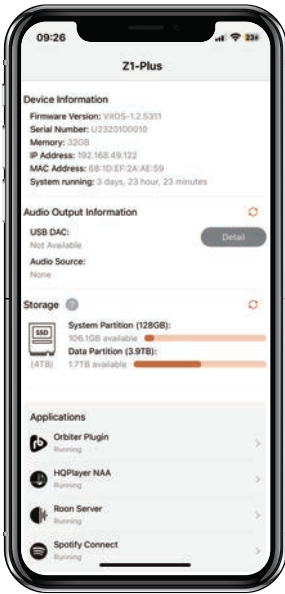
Device Search Guide

If the device cannot be found when connecting, click the "Help" button.

Enter the "Discover Guide" interface, enter the IP address of the Z1 Plus device in the space marked at the bottom of the interface, and then click "Connect".
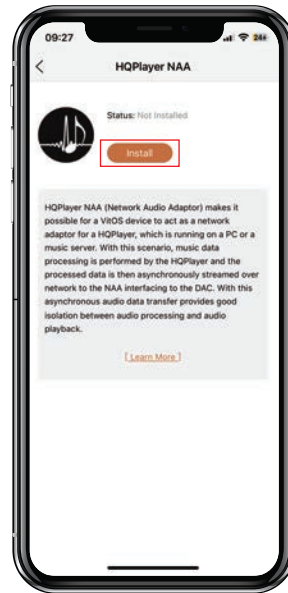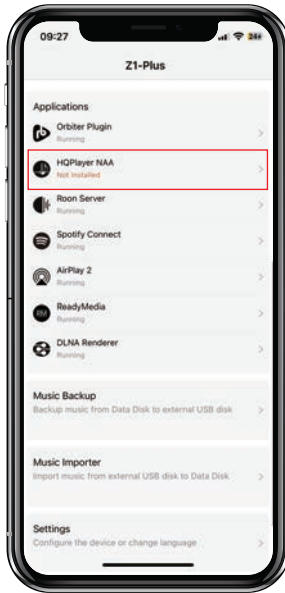
The connection to Z1 Plus is successful and the VitOS Manager main page is shown.
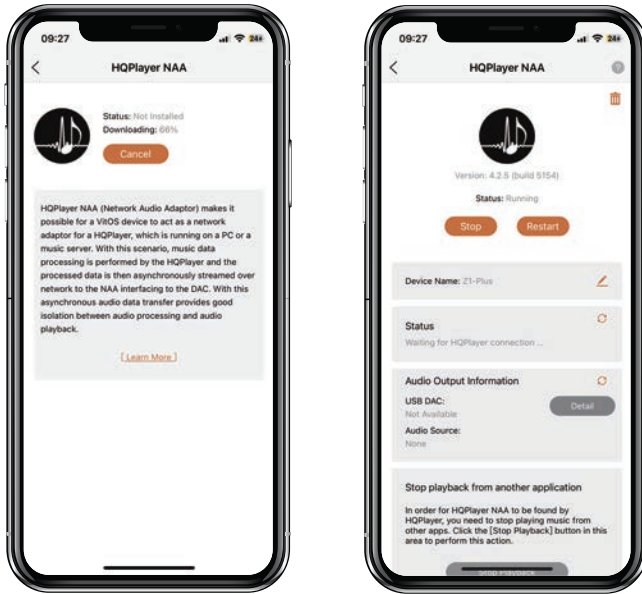

Install Applications

Before using the application, you need to confirm the installation status of the application. If "Running" is displayed, it means it has been installed. If "Not Installed" appears, click the corresponding application, and then click the "Install" button.

After installing the application, "Downloading" is displayed. Wait until the download is completed to "100%". If the status displays "Running", the installation is successful.

Application Introduction

Orbiter Plugin: Orbiter Plugin is an application plug-in that mainly builds music playback operations for VitOS devices. It is also an important program for VitOS

HQPlayer NAA: HQPlayer NAA (Network Audio Adapter) enables VitOS devices to act as network adapters for HQPlayer running on a PC or music server. In this case, music data processing is performed by HQPlayer, and the processed data is then streamed asynchronously over the network to the NAA interfaced with the DAC.

Roon Server: Roon Server is a music management and playback solution. It can play music through audio streaming and provides rich music library browsing, search and recommendation functions. You can use it via the Roon App.

Spotify Connect: To use the functions of Spotify Connect, you need to install or open the Spotify App.

ReadyMedia: ReadyMedia (formerly known as MiniDLNA) is a DLNA server for VitOS devices with installed data disks. With ReadyMedia installed on this VitOS device, you can use DLNA-compatible devices or software to browse and play music on the data disk.

DLNA Renderer: DLNA Renderer is a music playback application that is compatible with the DLNA/UPnP standard. You can control the DLNA renderer to play music from DLNA servers (such as MinimServer and ReadyMedia) through the DLNA controller.

SILENT ANGEL

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