# ZEN MkII
## Music Servers
Powered by innuOS

## ABOUT INNUOS

Innuos was founded in 2009 in the United Kingdom with the vision that you don't need to sacrifice sound quality nor be a technology wizard to enjoy the convenience of Digital Music at your fingertips. This vision can only be achieved through the combination of three core principles:

### Perfect synergy between Hardware and Software
Our multi-disciplinary team combines expertise in Computer Hardware, Audio Hardware, Networking and Software Engineering to create our products end-to-end.

### Customer-driven Research and Development
By working closely together with end users and partners alike, we really understand what different customers require in a music solution. This has been driving our research and development since day one.

### Open Platform
Digital Audio is a fast-evolving area, with new products being constantly introduced in the market. Instead of designing closed solutions, we build our products to be open, allowing integration with the most popular Hi-Fi and Multi-room products in the market.

## ZEN MKII MUSIC SERVER SERIES

The ZEN MkII Music Server Series perfectly embodies our core principles to bring Digital Music to new heights. It is composed by three models, powered by innuOS, with increasing audiophile refinement: Zen Mini, Zen and Zenith MkII Music Servers.

### Powered by innuOS
innuOS allows complete Music Library management using a tablet or smartphone. Ripping CDs, importing music, editing album data (including covers) and backing up your music library can all be done easily without the need for a PC/Mac computer. innuOS also contains many intelligent features to help organise your Music Library such as our rule-based music import engine or the Assisted CD Ripping mode.

### Audiophile Design
The Zen MkII Series models were designed to optimise music playback using three key areas: minimising power noise, reducing vibration and optimising firmware. Each of these areas is increasingly built up throughout the range, with the Mini having basic elements such as a floating optical drive platform to reduce vibration, the Zen with its Linear PSU and extensive anti-vibration chassis treatment and the Zenith with its Triple-Linear PSU and SSD storage.

# ZEN MINI

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**Designed for music lovers who mostly want to enjoy music
on multi-room and entry-level Hi-Fi systems**

CD Ripper, NAS and Streamer

Floating optical drive and hard drive platform

Quiet operation with fanless design

Low-power consumption for 24/7 operation

Fast quad-core Intel CPU and 2GB RAM

Compact half-width design

**Std** 1TB HDD   **XL** 2TB HDD

Remember your CDs and all the music lying on your computer that you haven't heard for ages? Now there's a simple way to store, manage and play all of it: the Zen Mini.

**Surprisingly Good Sound**
The Mini may be our entry-level Music Server but there's nothing entry-level about its performance. With premium components extensively configured to optimise sound quality, you'll notice the difference.

**Fast Performer**
With a processor much faster than a typical NAS, the Zen Mini provides a slick interface when browsing and searching your library as well as faster library indexing.

**Quiet and Stylish**
With its CNC-machined aluminium fascia and metal chassis, the Mini emanates style and build quality. And because it's fanless, there's no annoying fan noise so you can just enjoy the music.

# ZEN

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**Ideal for Hi-Fi enthusiasts with large music libraries, looking for improved soundstage and dynamics**

Full-width Design

Linear Power Supply with ultra-low noise regulators and Nichicon MUSE Capacitors

Anti-Vibration treatment on chassis and electronic components

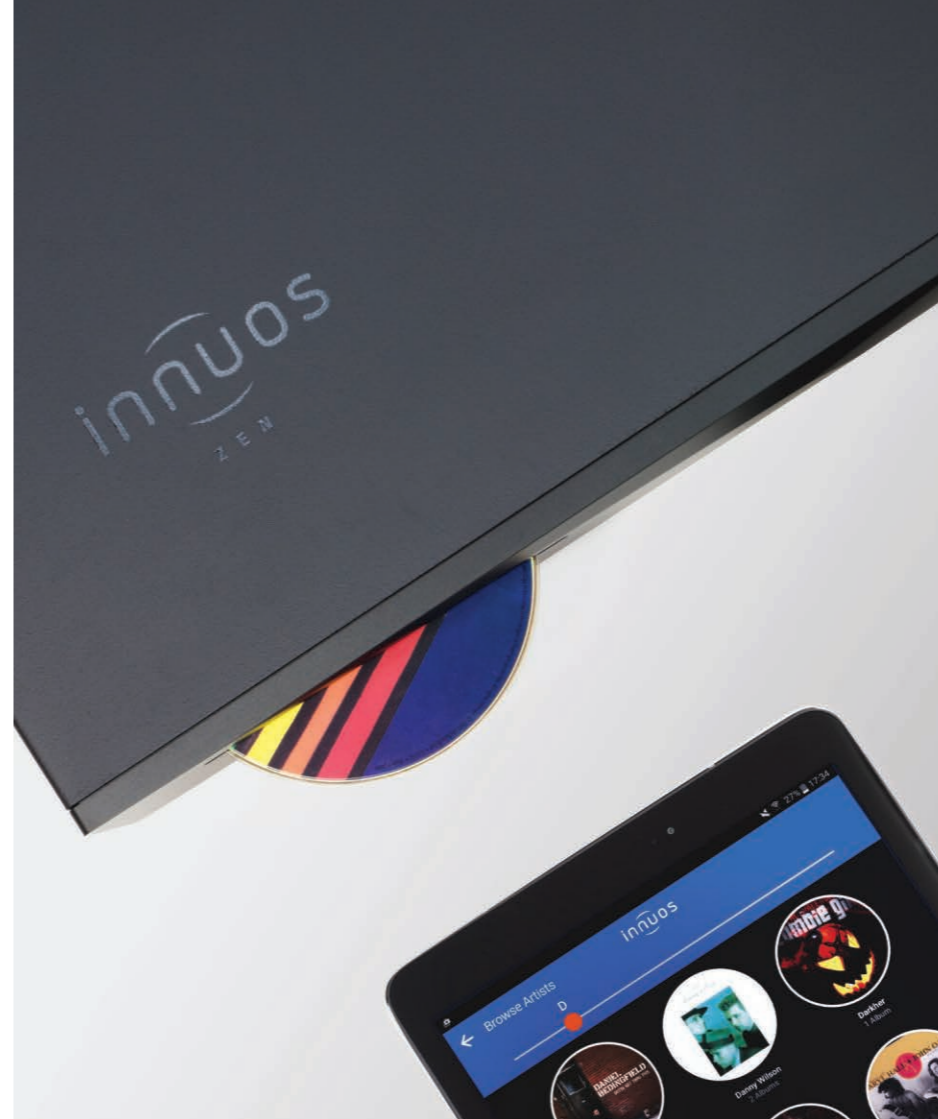Independent floating optical drive and hard drive platform

Medical-grade Mains Filter

Dual Ethernet Ports for LAN and Streamer with isolation transformers

In-Memory playback with 2GB Cache

Ultra-low Noise USB Audio Output

Quad-core Intel CPU, 4GB RAM

**Std** 2TB HDD    **XL** 4TB HDD

The Zen is a true HiFi component with a number of improvements on top of the ones offered by the Zen Mini.

**Linear Power Supply**
The Zen uses our linear power supply design with ultra-low noise regulators (40 uV), specialised audio capacitors (Nichicon MUSE) and medical-grade mains filter to ensure audio transparency and realism.
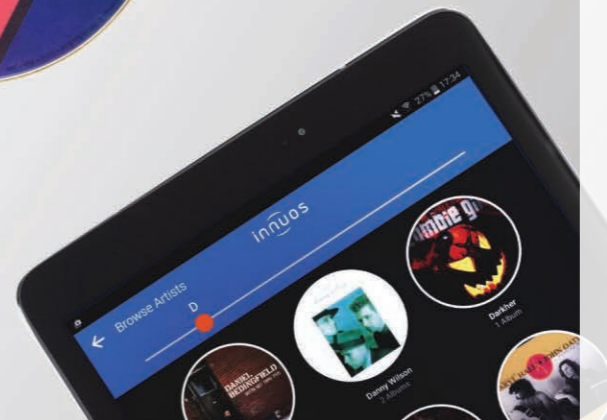
**Ultra-low Noise Streamer Output**
Dual-ethernet ports with isolation transformers on Ethernet ports significantly improve sound quality on streamers when compared to a direct router connection.

**Reduced Vibration**
Vibration kills good sound quality so we have added significant anti-vibration treatment to chassis and electronic components.

**In-Memory Playback**
With 2GB dedicated memory, the Zen loads music directly to memory for playback so that it doesn't need to engage the hard drive during playback, improving sound quality.

**hi·fi+ AWARDS 2016**

Server of the year

# Z E N I T H

Powered by innuOS

**Our flagship model, designed for Audiophiles who want to extract all the detail and dynamics out of their music on hi-fi systems**

Full-width Design

Innovative Triple-Linear Power Supply with ultra-low noise regulators and Nichicon MUSE Capacitors

Anti-vibration treatment on chassis and electronic components

Independent floating optical drive and SSD platform

Medical-grade Mains Filter

SSD Storage

Dual Ethernet Ports for LAN and Streamer with isolation transformers

In-Memory playback with 4GB Cache

Ultra-low Noise USB Audio Output

Quad-core Intel CPU, 8GB RAM

**Std** 1TB SSD    **XL** 2TB SSD    **XXL** 4TB SSD



We took the Audiophile design of the Zen to the next level by upgrading three key components of the system:
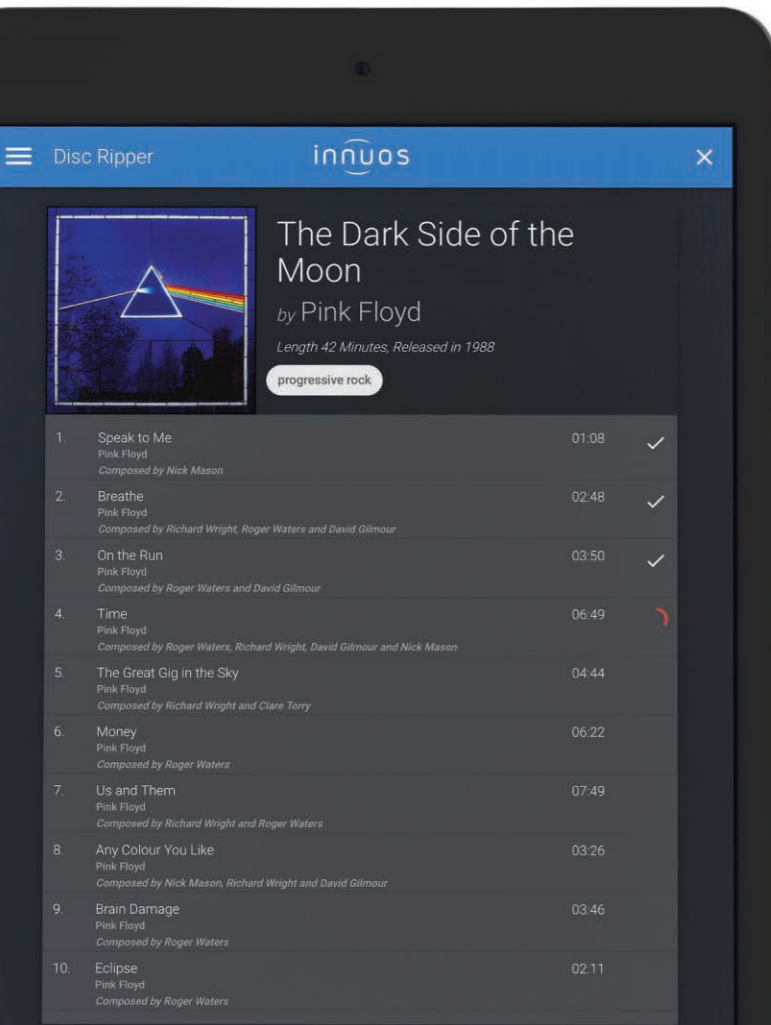
**Triple-Linear Power Supply**
This innovative design has three independent power stages that separately provide power to key components of the system, helping to isolate power noise from the USB and Ethernet outputs.

**SSD storage**
Using SSD based storage instead of regular hard drives plays an important role in reducing power as well as mechanical noise, which further contributes to the transparency and realism of the Zenith.

**In-Memory Playback**
We increased the RAM buffer on the Zenith to 4GB, which improves sound quality even further when compared to the Zen. The Zenith's SSD-based storage makes the transition from storage to system memory imperceptible – playback is instantaneous.

### Disc Ripper

**The Dark Side of the Moon**
*by* Pink Floyd

Length 42 Minutes, Released in 1988

`progressive rock`

| # | Track | | Time |
|---|---|---|---|
| 1. | Speak to Me — Pink Floyd — Composed by Nick Mason | | 01:08 |
| 2. | Breathe — Pink Floyd — Composed by Richard Wright, Roger Waters and David Gilmour | | 02:48 |
| 3. | On the Run — Pink Floyd — Composed by Roger Waters and David Gilmour | | 03:50 |
| 4. | Time — Pink Floyd — Composed by Roger Waters, Richard Wright, David Gilmour and Nick Mason | | 06:49 |
| 5. | The Great Gig in the Sky — Pink Floyd — Composed by Richard Wright and Clare Torry | | 04:44 |
| 6. | Money — Pink Floyd — Composed by Roger Waters | | 06:22 |
| 7. | Us and Them — Pink Floyd — Composed by Richard Wright and Roger Waters | | 07:49 |
| 8. | Any Colour You Like — Pink Floyd — Composed by Nick Mason, Richard Wright and David Gilmour | | 03:26 |
| 9. | Brain Damage — Pink Floyd — Composed by Roger Waters | | 03:46 |
| 10. | Eclipse — Pink Floyd — Composed by Roger Waters | | 02:11 |

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**innuOS** Operating System
# INTELLIGENT CD RIPPING

**Bit-Perfect Ripping**
Using AccurateStream technology, extract every last bit of your CDs into WAV or FLAC files.

**Automatic CD Ripping**
Just pop-in a CD! innuOS will automatically get full album data and cover from multiple online databases, rip your CD and eject when done.

**Assisted CD Ripping**
Assisted CD Ripping allows you to see and edit all the album data and cover obtained from the online databases before you rip the CD. Great for Classical Music!

**Quiet Mode**
Love to listen to music whilst ripping your CDs and want absolute silence? Just engage Quiet Mode for slowing down ripping, making it much quieter and with less vibration.

**Offline Ripping**
CDs can be ripped without internet connection. When connected, album data and cover for all offline ripped CDs will be obtained with a simple click.

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**innuOS** Operating System
# DIGITAL MUSIC IMPORT

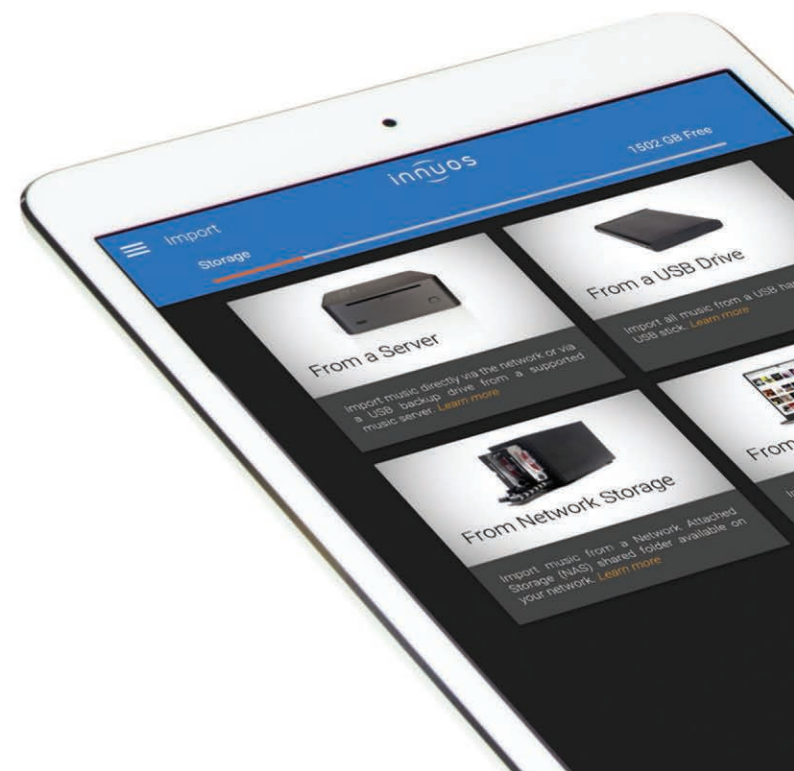**Import Wizards for Existing Libraries**
Pre-defined wizards for importing music from USB storage, Music Servers and NAS.
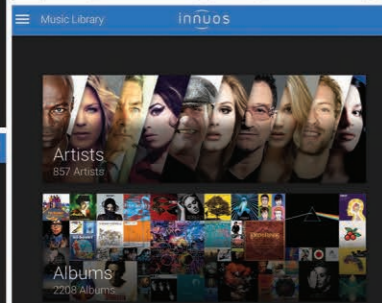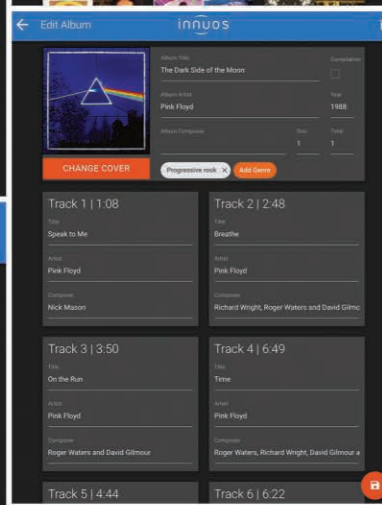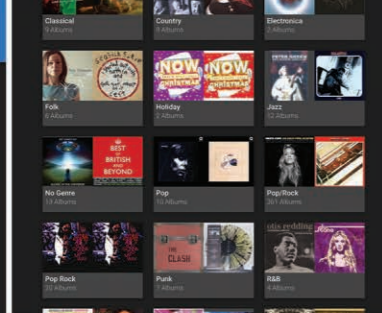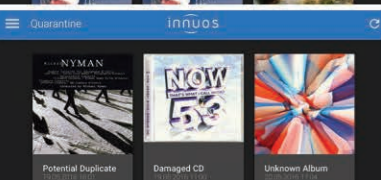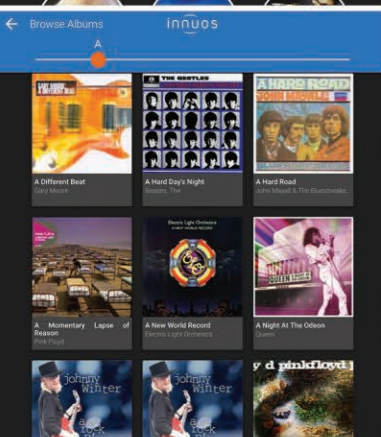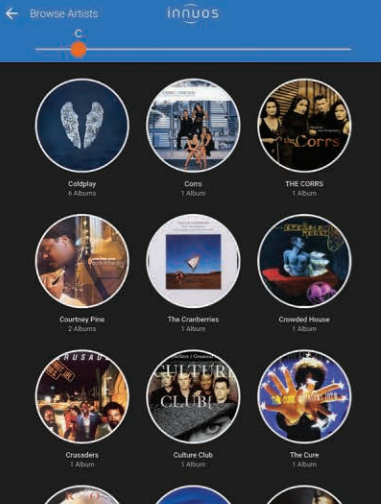
**Intelligent Import Engine**
innuOS takes all the hard work of importing music by intelligently analysing the music files and applying a number of rules such as:
- Organising the music based on format quality (compressed, cd quality or high-resolution), Artist and Album
- Removing very long file names or illegal characters
- Adding metadata to WAV files based on folder structure

**Download from Online Stores**
Qobuz, Linn Records, HD Tracks, HiResAudio, B&W Society of Sound, iTunes, Amazon… and more. Just download the music files (even if they are in a zip or tar file) to the Auto Import shared folder and the server will take care of adding and updating the music library.



### Import

From a Server
Import music directly via the network or via a USB backup drive from a supported music server. Learn more

From a USB Drive
Import all music from a USB stick. Learn more

From Network Storage
Import music from a network. Attached Storage (NAS) shared folder available in your network. Learn more

## innuOS Operating System
# MUSIC LIBRARY MANAGEMENT

### Edit or Delete Albums
Browse your library, select the album you want to update and just start editing directly on your tablet or smartphone. You can change the cover, manage genres based on previously used genres or simply delete the album - couldn't be easier.

### Quarantine
Quarantine is a staging area, separate from the Music Library, where any albums requiring attention are placed so they can be fixed before they go into the Music Library. These include:

- Albums with no metadata
- Ripped albums with damaged tracks
- Potentially duplicated albums
- Albums ripped offline

### Automatic Music Library Update
After music is added, modified or deleted, the library is automatically updated as well as any connected systems such as Sonos or UPnP Streamers.

## innuOS Operating System
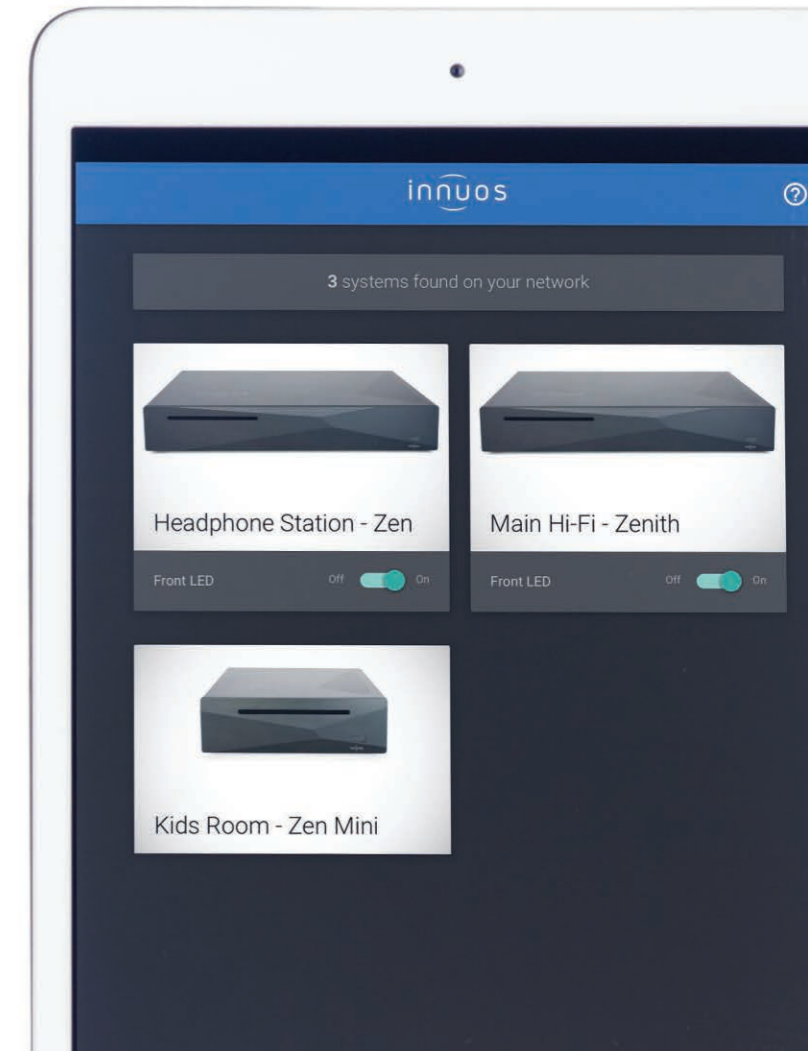# MUSIC SERVER MANAGEMENT

### Automatic Network Identification
No more figuring out IP addresses find your server. Just go to my.innuos.com on your tablet or smartphone to list all Innuos devices on the network and access the innuOS App from there.
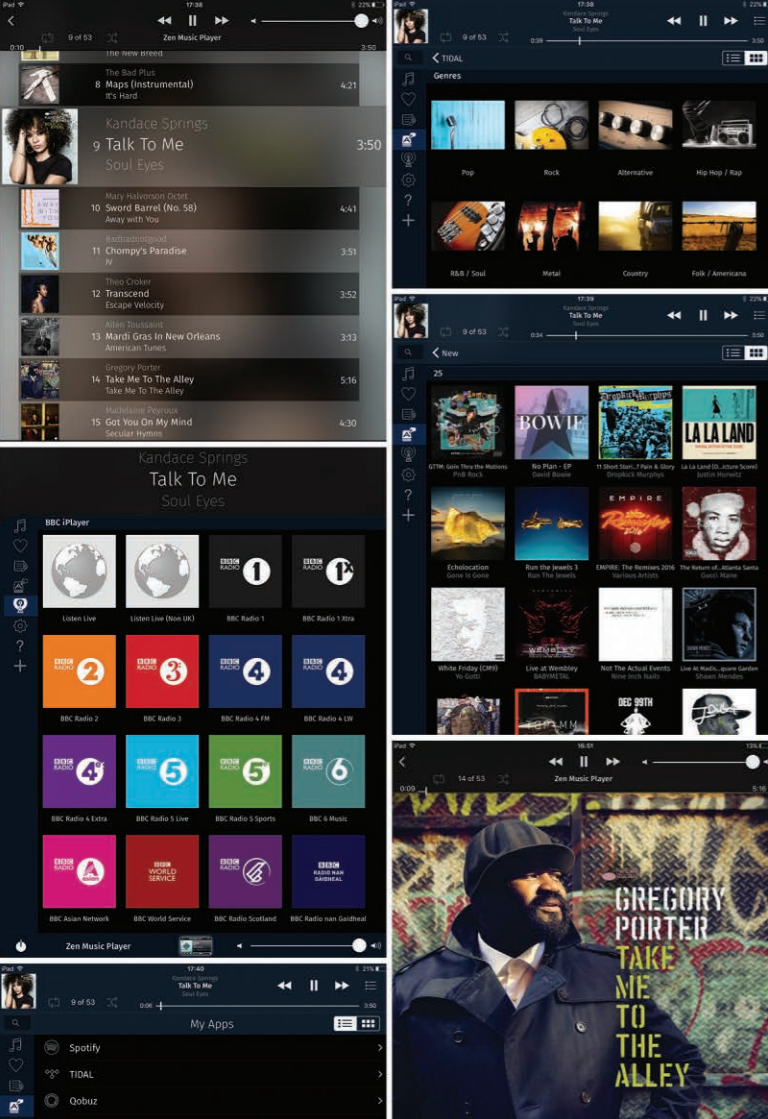
### Remote Updates
Update the system with a touch of a button to benefit from our continuous improvements: new functionalities, enriched customer experience or enhanced sound quality.

### Automatic Backup to USB Drive or NAS
Backup of your music library can be set on innuOS to start automatically based on library growth (e.g. every time 50 CDs are added) to either a USB backup drive or to a NAS on the network.

# HI-FI MUSIC PLAYER

**Rediscover Your Music and Discover New One**
Play all your music as well as Internet Radio and streaming services with the best sound quality by connecting directly to a DAC or Digital Amplifier via asynchronous USB.

Spotify, Tidal and Qobuz require premium subscriptions

**Supports All Major Music Formats**
The innuOS Music Player plays FLAC, DSD, MQA, WAV, Apple Lossless, AIFF, M4A and MP3 supporting bitrates up to 32bit/384KHz and DSD256, when connecting to compatible DACs

**Roon-Ready Player (Coming Soon)**
The innuOS Music Player can optionally become a Roon-Ready player so you can use the amazing Roon interface to explore your music like never before.

# STREAMERS AND MULTI-ROOM SYSTEMS

**Perfect Integration with Sonos**
innuOS can automatically connect its music library to a Sonos system at the touch of a button as well as automatically rescan the Sonos Music Library when any album is added, modified or deleted from the Music Library.

**Fast and Reliable UPnP Server**
innuOS also contains a UPnP Server configured out-of-the-box to work flawlessly with a number of UPnP-based systems:
· Wireless multi-room: such as Denon HEOS, Bang & Olufsen and BOSE amongst others
· Music streamers such as Naim, Linn , Moon, Auralic and many others

**Roon Server (Coming Soon)**
innuOS will also optionally integrate Roon Core* so you can use innuOS with other Roon-Ready streamers for a complete multi-room system.
* A Roon license, purchased separately, is required

**Home Automation**
innuOS can be integrated with the most popular home automation control systems such as RTI, Control4, KNX, AMX, Elan, Crestron and iRidium.

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