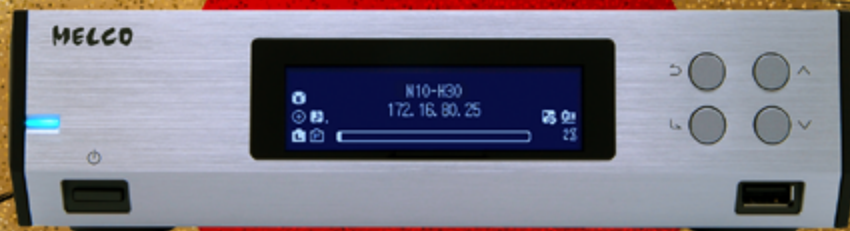MADE IN JAPAN BY AUDIO MASTERS

MELCO

SOUND INVESTMENT

The only Hi-Res digital music source for every application. New EX Series with Melco Intelligent Music Library for simple and powerful browse and search

The master of the art

Play music to a network streamer

Melco will store your Hi-Res or CD-quality music and stream to a network streamer. The unique Melco PLAYER Ethernet port enhances sound quality compared to computer or conventional NAS storage by eliminating any IT components in the music path.

Play to a USB DAC

Melco will play your Hi-Res or CD-quality music into a USB DAC with no configuration – simple plug and play. Melco supports all Hi-Res formats with astonishing sound quality.

Stream TIDAL and Qobuz

Internet streaming sites can be played in standard or Hi-Res into a USB DAC. Melco uses unique data reconstruction that significantly lifts the sound quality of streams which have been right around the globe.

Stream to multi-room

Melco additionally supports streaming of both locally stored music and network-stored music on PC or NAS and streaming sources to multi-room systems. Multi-room support at the same time as all the other functions.

Dedicated player port

Conventional IT music servers connect to the residential computer network to gather and distribute music.

This severely limits the performance of network-connected music players or streamers due to the action of network switches and presence of unwanted data streams.

Melco has the dedicated PLAYER port; music is internally cleaned and rebuilt and unwanted traffic is eliminated, resulting in a huge sound quality improvement.

Internally stored music, whether HDD or SSD, is protected by a journalled data storage system and the dataflow is more akin to a high-end CD transport than a high speed burst-data noisy computer system.

Melco also connects to the network for control, and also for access to streaming services such as TIDAL and Qobuz.

ISOLATED operation allows the use of network streamers without any network connection for extreme performance.

USB DAC

Melco will play into a USB DAC with auto selection of downsampling to match the DAC capabilities if necessary. DSD can also be converted to 32bit PCM if the DAC does not support DSD, or if the DAC internally converts DSD to PCM.

Advanced DACs capable of supporting Markerless DSD are catered for as well as up to 384kHz/32bit PCM and Octo DSD. Control of the USB DAC player is from the Melco App, most DLNA or OpenHome Apps on Android, Apple or PC / Mac, the from the Melco front panel display.

Easy music import

Music on drives or USB flash drives is easily imported with one button press
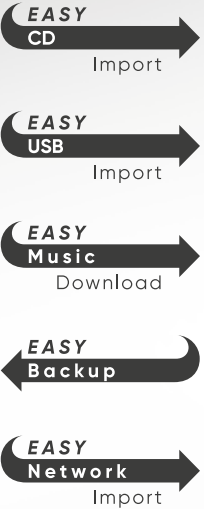
Easy music backup

Melco's internal music library and also all user settings are conveniently backed-up on a USB-connected HDD. A single button press initiates a full incremental backup. Restore of music or data is a single button press.

Easy expansion

All Melco music libraries offer substantial capacity for growing collections. As a collection approaches the capacity of the Melco, an expansion drive can be added to increase capacity without the need for any settings. Operation is confirmed on the front panel display.

Easy music download

Hi-Res music downloads from partner vendors can import directly into the Melco rather than into a PC and then needing to be located and moved on the network. Aside from the convenience, this allows Melco to verify the file integrity as well.

The standard

The Melco music library provides archival storage of digital music including all Hi-Res formats with playback into both network streamers and USB DAC.

Built in Japan to the highest standards, Melco combines extreme high performance with simplicity of installation and operation, and avoids the need for computers in the audio process.

All Melco models avoid the obvious compromises of using IT components for hi-fi playback, revealing the true capabilities of today's Hi-Res music formats.

Melco is not a modified computer in a nice case – it is designed from the outset as a high-performance audiophile source with attention to detail ensuring an extremely low noise and low jitter environment, in a low vibration chassis with simple control from the front panel or Melco App, with audio performance worthy of the finest audiophile systems.

Everything about Melco is simple: simple music importing, simple CD importing and archiving, simple music downloading without a PC, simple safety backups, simple capacity expansion for the largest music collections. EX series with melco Intelligent Music Library extends simplicity to browsing your music collection, even if Classical or Jazz. **Welcome to Melco** – the only truly audiophile Hi-Res music source and library.

MELCO

N1ZS/2A

EASY CD Import

EASY USB Import

EASY Music Download

EASY Backup

EASY Network Import

Melco is NOT a computer that can play music

So what is a Melco?

Digital music has been with us since the introduction of CD. With the constant advancement of file formats and increasing resolution, computers have long been able to play digital music. But improved data formats conceal the reality that computers are unable to play music to audiophile standards. No audiophile would ever seriously play a CD on a computer other than as background music. CD players simply perform so much better.

The same is true for Hi-Res digital music. You could use a computer, but Melco performs so much better.

Everything about Melco is dedicated to sound quality, from the audiophile-grade power supplies to create an electrically silent environment, to the clocked data structure exactly as in a high-end CD player, the Melco has none of the multi-purpose characteristics of computers – fast noisy data paths, multi-threaded processors and burst data – all fast, designed for high-speed office processing or gaming, not for the simple delicate task of playing music.

Not all computers look like computers though – some alternatives to Melco are based on hobby-level computer platforms, tell-tale signs being unnecessary RS232 or VGA ports, for example.

The internal construction of Melco is not an adaption of any IT component such as a data PC or an IT data server – it is designed and built for audio, and only audio.

Digital music storage and replay requires use of software – in the case of Melco this is dedicated to music playback of the finest quality, and is written by the specialist design team at Melco in Japan. There is no equivalent for computer use as those requirements all centre around multi-media A/V experiences. Melco is dedicated for high-end audio only.

As well as a dedicated high-quality playback environment Melco addresses the importing of existing digital music from other environments such as CD. Because Melco is not a general purpose computer it is not supplied with a CD loader – that would be an internal IT device of limited performance and reliability. So we support connecting a simple external CD loader or optical drive with Melco CD Import software, but for high-quality archival loading we have the D100 which ensures that a CD import is the best possible and cannot be bettered.

Some Hi-Res music sites now allow direct import into Melco without the need for a PC, not only very convenient but also, the Melco is able to make a quality check on the data and correct any errors – not possible when downloading onto a PC.
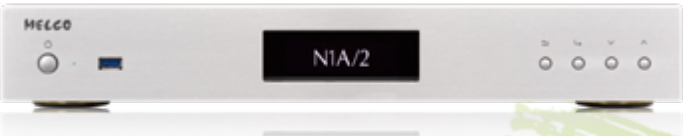
No network needed
Hi-Res music playback without any IT network

Hi-Res music playback normally requires an IT network or Wi-Fi. Melco will play into a network streamer even though there is no network – the Melco creates the necessary connectivity. Melco will also play into a USB DAC without any need for a network – an iPad or tablet PC can still be used to browse and play music and connects directly to the Melco, or the Melco front panel can be used to select music for play.

The ground breaking N1 series

Since launching in 2014, the Melco N1 series has become the established benchmark. The de-facto standard in Hi-Res music serving and storage. As our range extends, the N1 series becomes no less established in its music delivery and still maintains its darling status with the audiophile awards judges. Timelessly packaged, any N1 makes the perfect heart of your system.
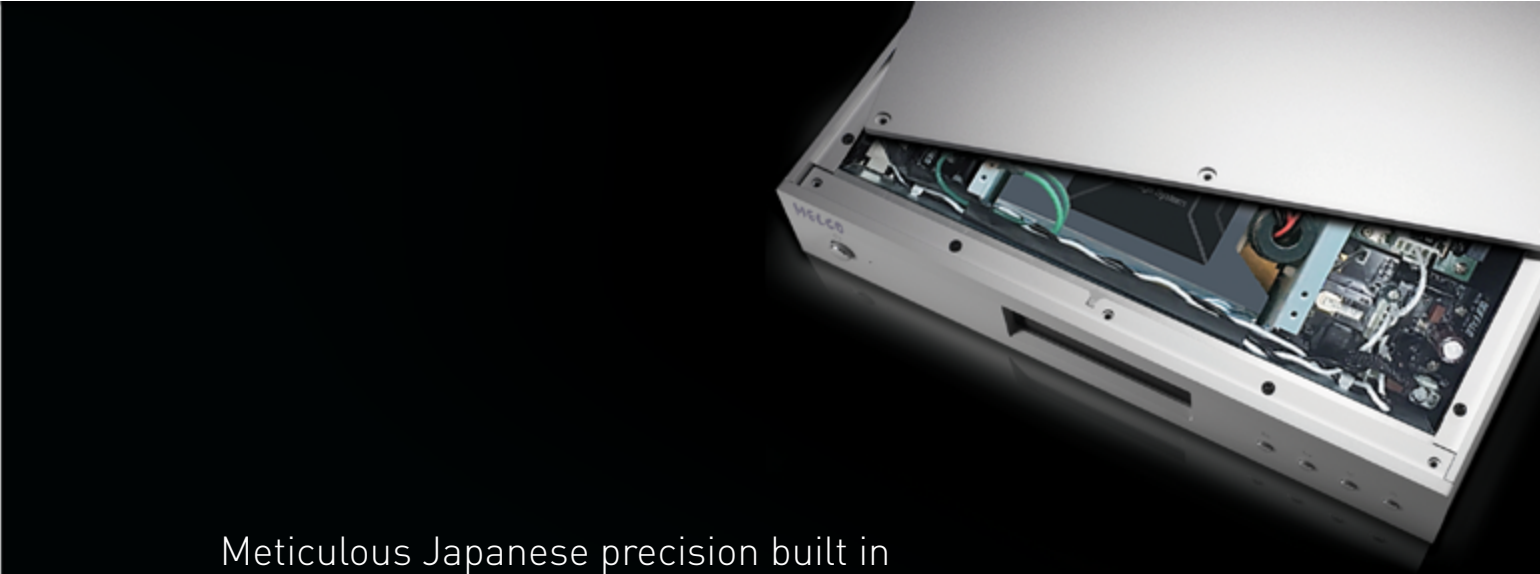
The Melco N1A/2EX-H60 is presented in a robust all-metal enclosure in black or silver. A convenient front panel USB socket allows for easy music importing as well as convenient DAC connection. Internal HDDs are on isolated mountings for low mechanical noise and low electrical noise is assured by use of an additional power supply filter block.

Meticulous Japanese precision built in at every stage

Melco N1A/2EX-H60 specification

Music storage	2 x selected 3.5 inch HDD 3TB Total 6TB
Network connectivity	LAN Port-Gigabit Ethernet (1000Base-T), PLAYER port, Gigabit Ethernet (1000Base-T), DHCP server in isolated mode
USB connectivity	USB2.0 port USB-DAC dedicated, USB3.0 backup port, USB3.0 expansion port, USB3.0 port for music import & CD drive USB3.0 front panel port for import & DAC
USB player file support	DSF, DFF, FLAC, WAV, ALAC, AIFF, AAC
USB player sample rate support	16-32 bit (PCM) to 384kHz:- auto downsample to suit connected DAC. Gapless PCM supported. 1 bit (DSD) to 11.3MHz Quad DSD. Markerless DSD supported. DSD to 32bit PCM conversion selectable. Gapless DSD supported. OLED displays player sample rate.
Power supply	100-120VAC, 220-240VAC
Size	436 x 62 x 352mm
Weight	7kg

Melco N1Z/2EX-H60 specification

Music storage	2 x selected SFF HDD 3TB Total 6TB
Network connectivity	LAN Port-Gigabit Ethernet (1000Base-T), PLAYER port, Gigabit Ethernet (1000Base-T), DHCP server in isolated mode
USB connectivity	USB2.0 port USB-DAC dedicated. USB3.0 backup port, USB3.0 expansion port, USB3.0 port for music import & CD drive
USB player file support	DSF, DFF, FLAC, WAV, ALAC, AIFF, AAC
USB player sample rate support	16-32 bit (PCM) to 384kHz:- auto downsample to suit connected DAC. Gapless PCM supported. 1 bit (DSD) to 11.3MHz Quad DSD. Markerless DSD supported. DSD to 32bit PCM conversion selectable. Gapless DSD supported. OLED displays player sample rate.
Power Supply	100-120VAC, 220-240VAC
Size	350 x 75 x 370mm
Weight	8.5kg

6TB storage

Fan-free design

Neutrik USB output

Separate ports

Lan   Player

Melco N1ZS20/2A specification

Music storage	1 x audio-optimised and selected 2TB SSD on Melco HS-S4 isolation platform
Network connectivity	LAN Port-Gigabit Ethernet (1000Base-T), PLAYER port, Gigabit Ethernet (1000Base-T), DHCP server in isolated mode
USB connectivity	USB2.0 port USB-DAC dedicated. USB3.0 backup port, USB3.0 expansion port, USB3.0 port for music import & CD drive
USB player file support	DSF, DFF, FLAC, WAV, ALAC, AIFF, AAC
USB player sample rate support	16-32 bit (PCM) to 384kHz:- auto downsample to suit connected DAC. Gapless PCM supported. 1 bit (DSD) to 11.3MHz Quad DSD. Markerless DSD supported. DSD to 32bit PCM conversion selectable. Gapless DSD supported. OLED displays player sample rate.
Power supply	100-120VAC, 220-240VAC
Size	350 x 75 x 370mm
Weight	8.5kg

Melco's high-end Z series chassis is housed in a substantial extruded aluminium case (black and silver) with an internal rigid H frame for vibration isolation with Melco's heavy brass HS3 drive mounting. Low noise is ensured with twin power supplies and audio-grade film capacitors and power filters. New processing logic with precise slow data-writing and accurate high-speed data retrieval and self-integrity check contributes to exceptional audio performance and stability.

Introducing the landmark N10

The Melco N10 2-box music library comprises a separate head unit with all storage, data processing, display, and connectivity, plus a totally separate and isolated ultra-low-noise power supply with linear power supply to not only ensure optimum performance of the N10, but also that sensitive playback systems are not affected.

Robust mechanical construction ensures isolation from harmful vibration. Dedicated isolating HDD platform ensures highest possible sound quality. An audiophile-grade linear power supply connects by Neutrik connectors to the isolated head unit, again to isolate vibration and noise.

N10

Extreme performance Audio NAS and local USB DAC player

Two-box design, separating signal processing electronics and power supplies

Capacity 3TB

qobuz

HIGH RES AUDIO

TIDAL

Melco N10 specification

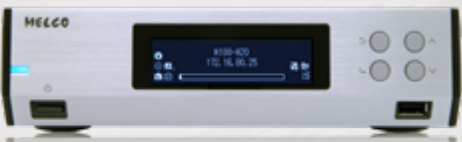|	
Music storage	1 x 2.5 inch selected HDD 3TB on Melco HS-S2 isolation platform
Network connectivity	LAN Port-Gigabit Ethernet (1000Base-T), PLAYER port, Gigabit Ethernet (1000Base-T), DHCP server in isolated mode
USB connectivity	USB2.0 Front panel x 1 USB2.0 Rear panel x 2 Assignable as DAC, backup, import, expansion
USB Player sample rate support	16-32 bit (PCM) to 384kHz:- auto downsample to suit connected DAC. Gapless PCM supported. 1 bit (DSD) to 11.3MHz Quad DSD. Markerless DSD supported. DSD to 32bit PCM conversion selectable. Gapless DSD supported. OLED displays player sample rate.
Power supply	Pre-set 220-240V AC or 110-120V AC dependant on market. Low-noise, linear power supply
Size	215 x 61 x 269mm (W H L)
Weight head unit	Approx 3.5kg
Weight power supply	Approx 5.0kg

N100 – Beauty that's more than skin-deep

Melco N100 – high-performance music library and player 2TB

The Melco N100 offers the full Melco feature set with high performance in a convenient form factor taking little room on the desktop or hi-fi rack. Half-size components mean that the matching D100 CD loader or E100 Expansion drive makes a conventional 43cm width. It offers a convenient front panel USB socket for DAC connectivity or music importing, duplicated at the rear. Additional ports for backup and expansion. True Melco network connectivity with dedicated PLAYER Ethernet port.

Melco N100 specification

Music storage	1 x 3.5 inch selected HDD2TB on Melco HS-S2 isolation platform	USB Player sample rate support	16-32 bit (PCM) to 384kHz:- auto downsample to suit connected DAC. Gapless PCM supported. 1 bit (DSD) to 11.3MHz Quad DSD. Markerless DSD supported. DSD to 32bit PCM conversion selectable. Gapless DSD supported. OLED displays player sample rate.
Network connectivity	LAN Port-Gigabit Ethernet (1000Base-T), PLAYER port, Gigabit Ethernet (1000Base-T), DHCP server in isolated mode	Power supply	Universal power adapter 100-240V AC 48W
USB connectivity	USB2.0 Front panel x 1 USB2.0 Rear panel x 2 Assignable as DAC, backup, import, expansion	Size	215 x 61 x 269mm (W H L)
		Weight	3kg

D100

Melco D100 USB optical disc drive

The Melco D100 simply plugs into the USB port of any Melco music library to allow for the simple importation or playback of Red Book CD when used with a suitable USB DAC. The D100 negates the need to import CDs to play. Archival-quality imports from the latest generation Japanese audio-specific CD drive – not a cheap disposable IT device.

High-grade, audio-specific, Melco-built components including the Melco HS-S2 isolation platform (Highly Stable Storage System). Also ideal for PC-based music rip installations using other ripping software for higher quality rips.

Melco D100 specification

Optical disc support	CD (CD-DA disc read only) DVD / BD (DVD / BD data disc read only)
USB ports	USB 3.0 Type A x 1 "TO DEVICE", USB 3.0 Type B x 1 "TO HOST"
Compatible equipment	Melco N1, N10 and N100 series. Windows 10 PC. Mac High Seria OS
Power supply	DC 12v (48W AC adapter)
Size	215 x 61 x 269mm (W H L)
Weight	3.5kg

E100

Melco E100 expansion drive 3TB

High performance from selected HDD HDD, plus Melco HS-S2 isolation platform (Highly Stable Storage System). Simply plug the E100 into any model of Melco music library to increase capacity by 3TB.

The rear USB3.0 Type A port duplicates the socket used by the E100. This gives USB DAC connectivity for N10 / N100 or N1Mk1 without a dedicated USB DAC port.

The additional USB port also allows a second E300 to be simply daisy-chained to give additional 6TB storage.

Melco E100 specification

HDD	1 x selected 3TB HDD mounted with Melco HS-S2
USB ports	USB 3.0 Type A x 1 "TO DEVICE", USB 3.0 Type B x 1 "TO HOST"
Compatible equipment	Melco N1, N10 and N100 series. Windows 10 PC. Mac High Seria OS
Power supply	DC 12v (48W AC adapter)
Size	215 x 61 x 269mm (W H L)
Weight	3.6kg

A library at your finger tips –
means hassle free, music to your ears.

EX series

MELCO

N1Z EX

EX series

Melco has redefined Hi-Res digital music playback – again.

The Melco EX Series, sets new standards of convenience for music library Browse and Search. Locating music for play on any digital music system relies on being able to Browse using the metadata tagging of the original music files. If the metadata is incomplete or inaccurate, then finding music becomes quite difficult. Until EX series.

The solution is Melco Intelligent Music Library.

Melco automates the process of re-tagging, using a variety of additional databases and sophisticated algorithms to intelligently replace (or supplement) the original metadata. To achieve this Melco uses SongKong – a very clever automatic re-tagging engine that has previously been available to Melco users only on a networked computer. Now the Melco EX series machines are shipped with SongKong installed and configured for simple operation.

Even when the music library is properly tagged, success in finding music still depends on the UPnP server which interfaces between the music metadata and the user and control App.

In recent years the preferred choice of UPnP server for serious audio has been MinimServer. A unique collaboration between MinimServer and Melco has resulted in MinimServer being the new UPnP server for Melco EX Series.

The advantages of MinimServer are many, and they all work towards what MinimServer refers to as Intelligent Browsing. Finding music can now be by Browse, or Search or both, in whatever order is most effective.

This is quite different to all normal UPnP servers, and means that music can be located without having to go backwards in the Browse process.

Classical music fans will be pleased to see another innovation.

Classical CDs generally contain more than one work, even if the Composer is the same. Or maybe the composer is different? So although Melco Intelligent Music Library works at the CD or album level with Rock and Jazz, for Classical the Browse and Search is now based on Works rather than the CD. At all times the complete CD can be easily identified and played, but the likelihood is that the user is searching for a specific work, rather than a CD or Album. This makes it simple to find an overture that was hidden between two Symphonies for example.

In summary, by using MinimServer to Browse and Search the new tagging implemented automatically by SongKong finding any music within the largest library becomes simple.

Internet Radio powered by vTuner

Using a USB-connected DAC with Melco, controlled by Melco Music HD App on an iPad, internet radio becomes a convenient and easy to use digital source. Featuring intuitive searching by Genres, regions and broadcasters. Individual stations can be stored as convenient playlists.

vTuner   **MinimServer**   **SongKong**

Main Features

- **Browse and Search Profiles:** *Jazz, Rock, Classical, Simple*
- **Browse and Search in any order**
- **One button:** 'Add Missing Album art'
- **One button:** 'Find additional metadata'
- **One button:** 'Replace all metadata with new'
- **Classical tagging at** *Work* **level, not** *Album*
- **New tagged metadata available to other player systems:** *multiroom* or *car*
- **Tagged metadata is now totally consistent across the whole Melco library**

- **Composer automatically added to** *Work Title* **in case of** *Classical*
- **Simple web tool for manual edits of a single** *album* **or change** *album art*
- **Will present overview of complete library in fine detail as web page or spreadsheet before and after processing**
- **User configurable in all aspects by subscription to** *SongKong* **for Melco and** *Minimserver2.*

Silence is golden – when you want the very best streamed audio.

S100

The technology

The Melco S100 is quite an unusual architecture compared to an IT dataswitch. There are four 100Mb RJ45 ports – these provide the best audio quality. There are four 1Gb ports – these are ideal for PC connectivity, and are ideal for the Roon Core processor which generates high traffic flow. Two additional SFP ports allow for connection of optical fibre for components such as Lumin that support it.

Key to creating a stable and resilient data stream for extreme Hi-Res streaming is the Packet Buffer and S100 has 1.5MB of buffer capability to deal with erratic external connectivity. Audiophile techniques are used in the power supply implementation with a bank of audio-grade capacitors to ensure the lowest noise environment.

Mechanical stability contributes to system performance and the S100 is built on a rigid steel chassis with total screening provided by the totally metal enclosure which matches Melco Audiophile NAS components. Power supplies are external to the S100 giving good isolation and allowing for future upgrade to external linear power supplies.

Network Digital Music Players – Streamers.

The Ethernet network is the signal connectivity to every network Player or Streamer from the data-store or NAS.

Similarly Streaming Services such as TIDAL and Qobuz originate in remote servers and connect to the network Player through the dataswitch.

Any damage to packet data, timing, packet order, noise, or intrusive data, damages the overall musical performance.

IT switches are optimised for speed and throughput – not data integrity.

Melco S100, using the 100Mb ports achieves the best possible performance from every brand of network Player or Streamer regardless of the source.

Computer Audio

Computers used for playing Audio all connect to the network for access to servers or streaming services.

This connectivity is not optimised for sound quality and Melco S100 removes this restriction to performance allowing the full benefit of optimised player software and other tweaks to be enjoyed.

ROON

Roon systems have both music storage and the Roon Core connected to the network which can generate a lot of traffic.

The Melco S100 has both ports optimised for sound quality, as well as ports optimised for both sound quality and throughput.

This creates an ideal Roon infrastructure without any compromise.

Lumin

Lumin high performance network players offer the opportunity to isolate the player from the network using fibre Optic SFP connectors.

Melco S100 is equipped as standard with two SFP/LC connectors to allow the full befits to be enjoyed

Melco N1, N10 and N100

Melco owners have long realised the benefits of using Melco NAS without any network connection at all – but this is often not practical.

Now with the S100 all Melco users can enjoy the benefits of a permanent network connection – access to streaming services, internet radio and other networked sources - without any sound quality compromises.

Melco S100 Specification

Connectivity		
Ports	4 x 100Mb/E	RJ45
	4 x 1000Mb/E	RJ45
	2 x Fibre	SFP/LC
Power	12V 1 amp	5.7mm coax
Size	215 x 61 x 269mm (W H L)	
	2.5kG	

One critical component of all digital music systems is the dataswitch which handles both the music data and control.

The **Melco S100** is designed and configured as an audiophile component without any IT compromises..

S100 Applications

Connectivity
(1) Power input
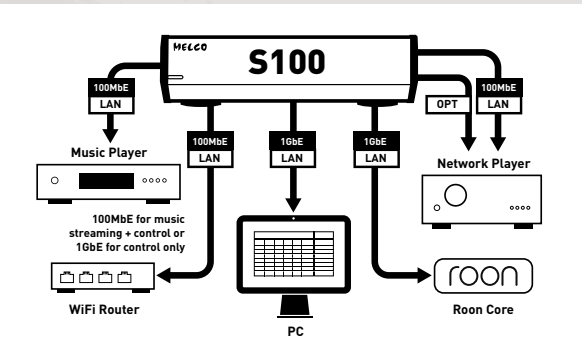**(2)** LED - On / Off button
(3) LEDs

(4) SPF
(5) 100MbE (priority port)
(6) 1GbE

(7) 1GbE (priority port)
(No 8 SFP priority port when connected)

Recommended system connectivity

The last word...

Hi-Fi World, Melco D100
One of the best optical disc readers available. Ideal for ripping CDs or as a standalone player.
★★★★★

Hi-Fi Plus, Melco N10
The best home music server there is.
★★★★★

Hi-Fi Choice, Melco N100
The N100 music library is a great way of bringing audiophile sound quality to your digital files.
★★★★★

Hi-Fi World, Melco N100
Great sounding, large capacity network storage device that is hard to beat at the price.
★★★★★

Hi-Fi Choice, Melco N1ZH/2
Very slick and delivers a superb performance.
★★★★★

Hi-Fi Choice, Melco N1A
If you're serious about streaming, this is a very fine one-stop solution to get the very best out of your system.
★★★★★

The Ear, Melco N1A
The level of transparency is in another league... it's one of those rare components that makes you feel as if the truth is within your grasp.
★★★★★

Hi-Fi News, Melco N1-ZH60
This is a reference-quality front end that combines punch with panache...it's a thrilling ride.
★★★★★

C Beckerson
Melco is amazing and has changed my listening habits forever.
★★★★★

P Murray-Robertson
The quality is STUNNING – quite simply the best Hi-Fi upgrade I ever did!
★★★★★

A Bridgens
With my Melco N1A, notes are snappier and crisper and don't merge into one another as before. The sound stage has transformed from two dimensional to all around instead of just in front. I never realised that this was possible from a pair of speakers positioned in front!
★★★★★

L Cuijpers
I am very happy with the Melco N1 – the improvement in sound quality as well as ease of use is something I appreciate very much.
★★★★★

A Cohen
I have recently purchased an N1A/2 and I am very pleased with the sound quality – Melco has produced a fantastic product.
★★★★★

L Ammitzboll
My N1Z has made my system a joy to behold. I am enjoying listening to the extraordinary improvement in staging, separation, the highs, the bass – honestly I've never heard a triangle ring until now!
★★★★★

HAND CRAFTED IN JAPAN BY AUDIO MASTERS

Distributor / Dealer details:

MELCO

SOUND INVESTMENT

@MELCOAUDIO | @melcoaudio | www.melco-audio-masters.com | www.melco-audio.com

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