

# HDX Hard Disk Player



world class sound...

### Introducing the hard disk player that puts music first

Computers and music have drawn ever closer since a hard disk recorder was first used in a music studio. Now, with downloads being part of the everyday audiophile experience, computer technology has become an inherent element of music in the home. However it takes immense knowledge and skill to design electronic products that can take the raw bits of digital audio and re-assemble them into a genuine musical experience. Naim CD players have long been a testament to that fact, and now the HDX hard disk music player has joined them.

At the heart of the HDX is a CD ripping and data storage system employing some of the most advanced data acquisition and error analysis algorithms ever deployed in the pursuit of sound quality. It rips CD audio data, stores it on a hard disk, catalogues the artist, album and track titles and, at the touch of a screen, replays it with utterly uncompromised sound quality.

The HDX is of course not the first CD ripping hard disk music player, but it is the first to carry a Naim logo, with all the principles of musical audio quality that the logo demands. It is also the first to reach the heady performance levels of the world's best CD players – our own. So imagine your entire CD collection available for immediate replay with Naim CD player sound quality at the touch. You don't have to imagine; the HDX has arrived.

### Audiophile hard disk playback has arrived

HDX playback begins with a Naim engineered, multiple power supply PCI interface that feeds audio data to the digital-to-analogue conversion stage. The HDX borrows heavily from the established Naim practices that produce the world's finest sounding CD players. It incorporates multi-regulated power supplies, a Burr-Brown digital-to-analogue converter, ultra-low jitter re-clocking, seven pole analogue output filtering, and every last thing we know about maximising musical sound quality. An XPS or 555 PS external power supply can be connected for even greater musical performance.

### Ripping simple

Ripping CDs with an HDX is simple. Open the CD drawer, insert the CD and in a few minutes the HDX rips and stores a bit-perfect copy. An HDX can store around 750 CDs internally on its 500GB drive, while network hard disk storage for around 20,000 CDs is possible with Naim CD player sound quality. A solid-state drive variant, the HDX-SSD, is available for those who wish to opt out of internal storage, preferring to rip to network-attached storage only. Network storage locations and priorities can be changed at will and music can be moved between locations via the HDX's simple and intuitive user interface.

### Browsing is a breeze

Browsing your music collection with HDX is a breeze. No more peering at CDs on shelves and promising that they'll be in alphabetical order one day. Each CD ripped by the HDX is automatically catalogued through enquiry to an online database and its data added to the internal library, regardless of storage location. Genres can be assigned, or new ones invented, and even album or track names can be edited. The HDX makes you head librarian of your own music library.

### Find music with ease

Searching for music is not limited to albums and tracks. Want to search by composer, performer, artist, orchestra? Go ahead.

Can't remember the name of the bass player on Antonio Forcione's Meet Me in London? The Naim Extended Music database, with the power of AMG at its heart, will find it for you. Remember the smallest detail and all your music is there at the touch of a screen. And, in case you were wondering, there were two bass players on Meet Me in London; Malcolm Creese and Davide Mantovani.

### Choose your interface

The HDX incorporates a front panel touch screen that offers all the control you'll need. But perhaps you fancy controlling your HDX from your listening position? Well, connect a small display screen, or even your television, and you can operate the HDX with its remote handset. iPhone and iPod Touch users can even download a HDX control app from the App Store. Or perhaps you want to run the HDX wirelessly from your laptop? Easy; use either the Desktop Client application or a web browser. There's a USB touch screen option too.

### Access your HDX from your PC with Naim's Desktop Client Application

With an HDX connected to a home network you don't have to be in the same room to browse your music library. The Naim Desktop Client is a Windows PC application that can control your HDX, browse its music files and handle player setup and maintenance easily and intuitively.

### Connected HiFi at your fingertips with high resolution audio and network streaming

As well as being a stand-alone hard disk music player, the HDX can be used as a music server to provide up to six different streams of music simultaneously over a home network. It also operates as a UPnP™ server to stream audio to any UPnP™ playback device, such as the Naim Uniti or UnitiQute, and can play high resolution audio files at up to 24bit/192kHz from its USB interface or from network storage. And for those wanting custom-installed multi-room audio, HDX also works with Naim's IP-based multi-room system NaimNet\*. Install an HDX and you've installed both a high-performance source component and the heart of a multi-room audio system.

\*To find out more about NaimNet visit [www.naimnet.com](http://www.naimnet.com)

### U Upgrade Path

Upgrades are a fundamental element of the Naim philosophy. There are two upgrade paths for the HDX: the first, the addition of an external power supply (either an XPS or 555 PS) and the second, adding the DAC, Naim's stand-alone digital to analogue converter. Each of these upgrades will bring about a significant increase in performance. However when used in combination, with the power supply instead connected to the DAC, they deliver an outstanding step-change in performance.



## HDX Hard Disk Player

The world's first performance upgradeable, audiophile hard disk player

# Specification



## AUDIO OUTPUTS

Line Outputs	DIN and RCA
Output Levels	2.1Vrms at 1kHz
Output Impedance	22Ω maximum
Phase Response	Linear phase, absolute phase correct
Minimum Load Impedance	10kΩ
Frequency Response	10Hz - 20kHz, +0.1/ - 0.5dB
THD+N	<0.1% 10 Hz - 18kHz at full output level
Digital Outputs	1 x S/PDIF, 75Ω BNC and TOSLINK

## FORMATS

CD Formats	Red book
Disc Compatibility	CD, CD-R, CD-RW
Audio File Formats Supported	WAV, AIFF, FLAC, Apple Lossless, OGG Vorbis, AAC, WMA, MP3

## SAMPLE RATES

Sample Rates	44.1kHz, 48kHz, 88.2kHz, 96kHz and 192kHz native Other rates converted to 44.1kHz
Bit Depths	16bit, 24bit, 32bit fixed, 32bit float

## CONNECTIVITY

Infra-red	RC5. 1 x Handset included
Remote Input	1 x Rear panel 3.5mm jack (RC5)
RS232	1 x 9 way D
TV Outputs	1 x S-Video, 1 x composite, 1 x 15 way D VGA
USB	1 x Front panel, 4 x rear panel
Ethernet	1 x Rear panel RJ45
Other	1 x PS2 keyboard, 1 x PS2 mouse

## USER CONTROL INTERFACES

TV/Monitor	4:3 and 16:9 customisable TV interface. USB touchscreen compatible.
Front Panel	Touch sensitive colour user interface. Synchronised TV interface.
Web Interface	PC and Mac internet browser compatible Adobe Flash® user interface
Apple	User interface for iPhone and iPod devices, downloadable from App Store
AMX & Crestron	Installer customisable reference apps available

## STREAMING & RIPPING

USB	Scan and play from FAT and NTFS formatted memory sticks
Network Shares	Scan and play from music stored on a network share
Network Storage	Rip to external network storage for expanded music storage
UPnP™	Transcoding, proxying UPnP™ Server. DLNA® device compatible
NaimNet	6 user streams to NaimNet and NetStreams systems
CD Metadata	AMG online, FreeDB online and local database

## POWER

Mains Supply	100 - 120V, 220 - 240V, 50 or 60Hz
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## PHYSICAL

Case Size	87 x 432 x 314mm (H x W x D)
Weight	10.8 kg
Finish	Black



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UPnP™ is a trademark of the UPnP™ forum.

iPod and Mac are trademarks of Apple Inc., registered in the U.S. and other countries.

Naim's HDX is powered by the DigiFi platform; leading edge software technology licensed from DigiFi Ltd of London.

Copyright notice: HDX users are reminded that copying CDs may, in certain circumstances, be illegal.



NAIM AUDIO LIMITED

Southampton Road • Salisbury • England • SP1 2LN  
Tel: +44 (0) 1722 426600 • Fax: +44 (0) 871 230 1012

www.naimaudio.com