Specification

Model name	cocktailAudio X50D		Remarks
Host CPU & Memory	CPU: Dual Core ARM Cortex A9 running at 1.0GHz		
	Main Memory: DDR-1066 1GByte		
	NAND Flash 8GByte		
CD Player	Type	Front Loading	
	Supported media	CD, CD-DA, CD-R, CD-RW, DVD-R/RW	
Display	7.0" TFT LCD(1,024 x 600pixels)(* able to connect to ext. screen via HDMI out)		
Interface	Key & Jog(Volume/Scroll), IR Remote Control, Customized Remote App for iOS and Android devices, Web Interface		
Digital Output (Variable/Fixed)	COAXIAL x 2	S/PDIF 75ohm RCA, Sample rate: up to 24bit/192Khz	
	TOSLINK x 1	S/PDIF, Sample rate: up to 24bit/192Khz	
	AES/EBU/XRL x 1	110ohm, Sample rate: up to 24bit/192Khz	
	I²S Out x 2	RJ45 — Native DSD, DoP, PCM up to 24bit/192Kh	
		HDMI — Native DSD, DoP, PCM up to 24bit/192Khz	
	USB Audio x 1	USB Audio Class 2.0 Out(supports up to Native DSD256)	
	HDMI Out x 1	HDMI Audio Out(*Shared with HDMI Out for external screen)	
	Word Clock Out	Up to 192Khz	
Digital Input	COAXIAL x 1	Sample Rate up to 24bit/192Khz	
	TOSLINK x 1	Sample Rate up to 24bit/192Khz	
Supported Storage	Hard Disk	2.5" SATA, up to 8TB — * Two(2) Storage Decks	
		3.5" SATA, up to 8TB — * RAID System for two storages	
	SSD	2.5" SATA, up to 8TB — (3 modes: Mirror, Stripe or Big)	
TUNER	DAB+/FM	DAB+/FM Tuner built-in(Selectable for DAB/DAB+ or FM Radio)	
Connectivity	USB Host	USB3.0(5V/1A) x 2 at rear / USB2.0(5V/1A) x 1 at front	
	Network	Wired — Giga Fast Ethernet(10/100/1000Mbps)	
		Wireless(Optional) — ※ 802.11b/g/n WiFi USB dongle(Optional)	
	12V Trigger	Out — Max 200mA, 12V	
		In — Max 12V	
	HDMI Out	Connect to external screen(* Shared with HDMI Audio Out)	
Codec & Format supported	MQA, DSD(DSD64, DSD128, DSD256), DXD(24Bit/352.8Khz), HD WAV(24Bit/192KHz), HD FLAC(24Bit/192KHz), APE/CUE, WAV, FLAC, ALAC, AIFF, AIF, AAC, M4A, MP3, WMA, Ogg Vorbis, PCM, M3U, PLS, CAF, etc		
Network Protocols Supported	UPnP(DLNA) Server/Client/Media Renderer, Samba Server/Client, FTP Server, Web Server, etc		
Internet Services	Internet Radio	Airable	
	Online Music Services	TIDAL, Deezer, Qobuz, Napster, Spotify Connect	
Supported OSD languages	English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Japanese, Korean (To be added by request)		
Power Source	AC110 - 240V / 50 - 60Hz Free Voltage		
Mechanical	Material	Front — 13mm thickness aluminum by CNC cutting	
		Knob — Aluminum by CNC cutting	
		Body — Full aluminum by CNC cutting	
	Dimension	Without foot — 441mm(W) x 330mm(D) x 80mm(H)	
		With foot — 441mm(W) x 330mm(D) x 100mm(H)	
Certificate	CE, FCC, EMI, etc		

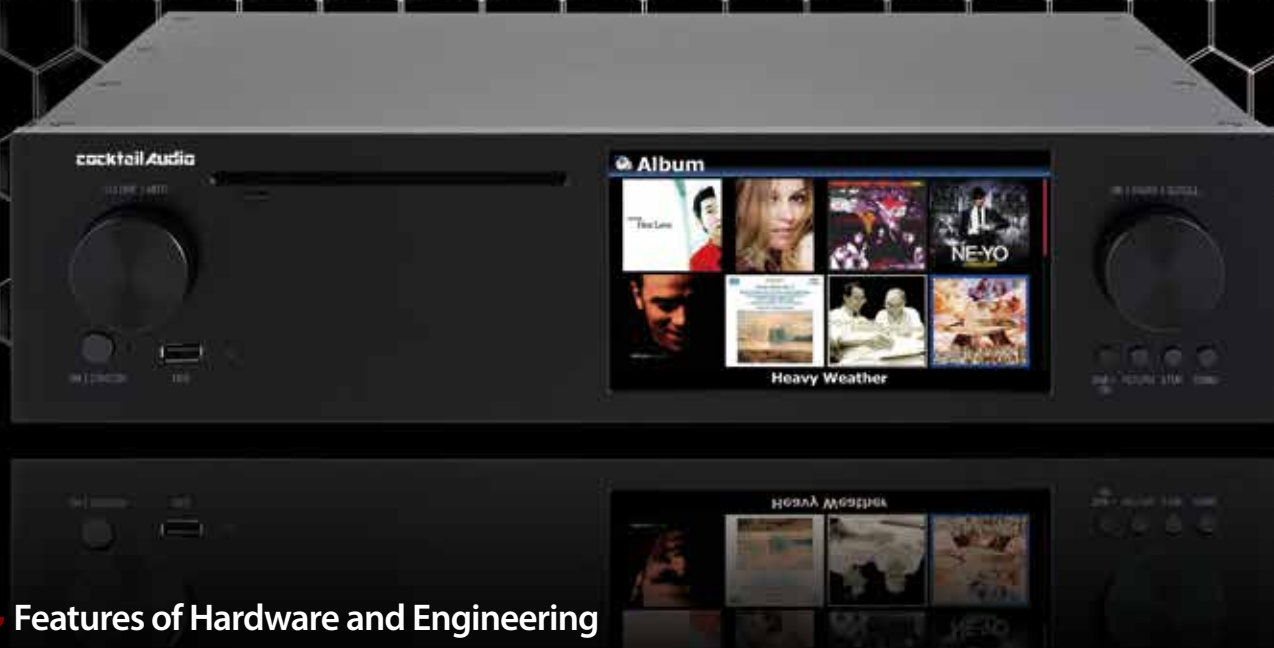※ Specification may be changed without notification

cocktailAudio X50D

Most versatile and Powerful Pure Digital Music Server,
CD Ripper, Network Streamer and much more

Premium Pure Digital Music Server

cocktail Audio X50D

Features of Hardware and Engineering

- Equipped with high-performance Dual Core ARM Cortex A9 processor running at 1.0Ghz
- XMOS 32bit/500MIPS 8 Core Powerful Microcontroller
- DDR-1066 1GByte Main Memory and 8GByte Nand Flash Memory
- High speed optical disk drive for quick CD ripping
- 7 inch TFT LCD(1024 x 600 pixels) screen for intuitive GUI
- DAB+/FM Tuner built-in
- USB Audio Class 2.0 Output for connecting to an USB Digital-to-Analogue Converter(DAC)
- I²S Digital Out(RJ45 & HDMI) to support up to Native DSD including 24bit/192Khz
- Giga Fast Ethernet(10/100/1000Mbps) built-in
- Support up to 8TB(Tera Bytes) storage like 3.5"/2.5" hard disk or SSD
- Using RAID System function, total 16TB storage configuration is possible
- HDMI Out connector for using an external screen like TV as its GUI screen
- Rugged chassis construction with full aluminum body chassis by CNC cutting
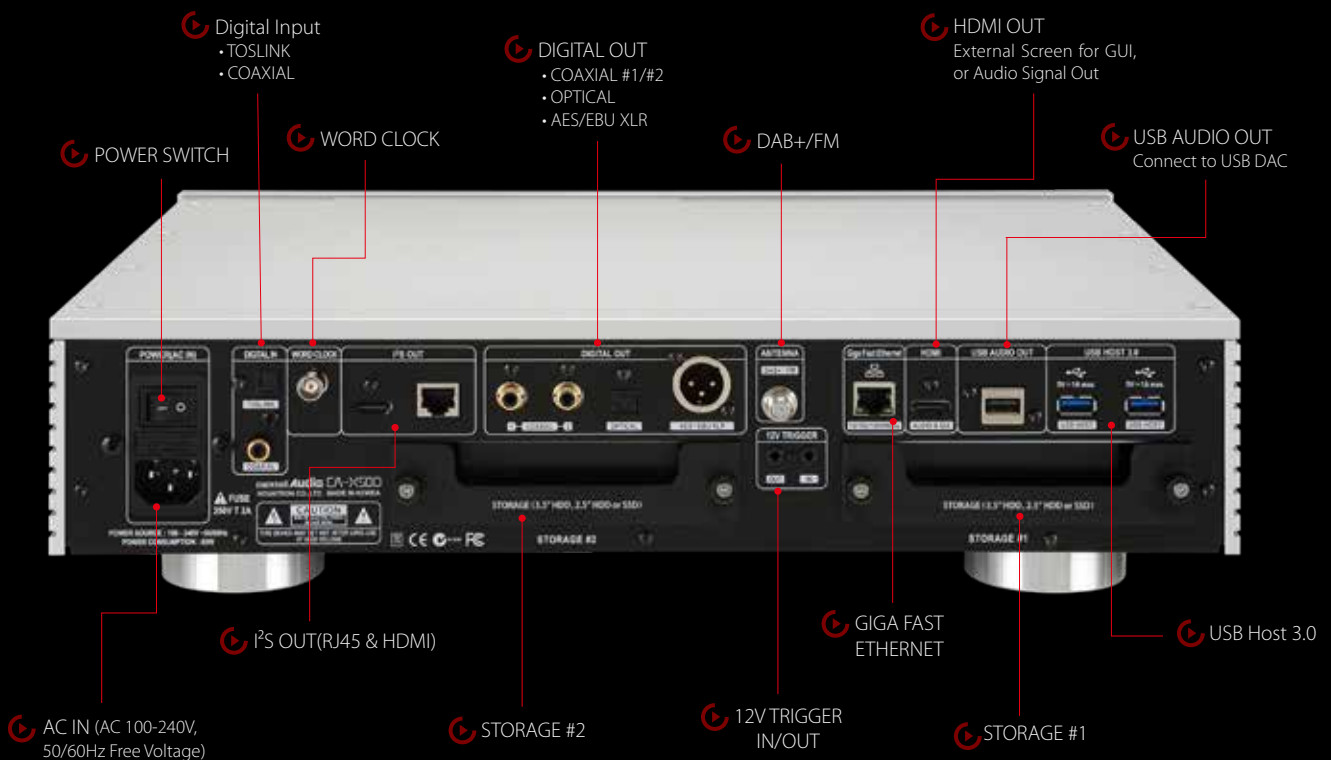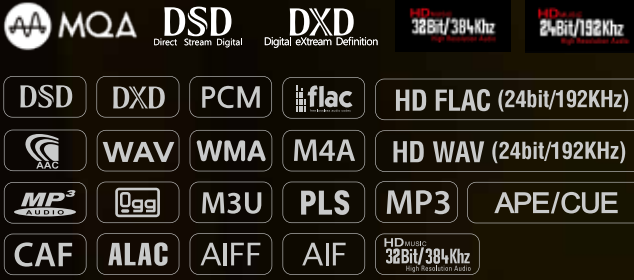
Versatile Software functionalities and usage

- Support various file formats like MQA, DSD(64/128/256), DXD(24Bit/352.8Khz), including 24Bit/192Khz WAV/FLAC
  and full range hi-res audio file formats
- CD Ripping with professional CD metadata and album cover art provided by Gracenote
- Make your own digital music file collection of DAB+/FM radio and Internet radio to X50D MusicDB via its recording
  function with hi-res sampling rate 24bit/192Khz
- High Connectivity
- Various network protocol supported(UPnP(DLNA) Server/Client/Media Renderer, Samba Server/Client, FTP Server,
  Web Server, etc
- Major Music Streaming Services(TIDAL, TIDAL MQA, Deezer, Qobuz, Napster, Spotify Connect)
  and Internet Radio(Airable) available
- Customized Remote Control App, NOVATRON MusicX for iOS and Android
- Customized WebInterface(WebUI) for remote control and MusicDB management by PC
- Support 'Roon Ready', which is the famous Music Player for Music Lovers

GOOGLE ALBUM ART

What is the cocktail Audio X50D

The X50D is the most versatile and powerful Pure Digital Music Server,
CD Ripper, Network Streamer, Digital Recorder and much more

Digital Input
• TOSLINK
• COAXIAL

DIGITAL OUT
• COAXIAL #1/#2
• OPTICAL
• AES/EBU XLR

HDMI OUT
External Screen for GUI,
or Audio Signal Out

POWER SWITCH

WORD CLOCK

DAB+/FM

USB AUDIO OUT
Connect to USB DAC

I²S OUT(RJ45 & HDMI)

GIGA FAST ETHERNET

USB Host 3.0

AC IN (AC 100-240V, 50/60Hz Free Voltage)

STORAGE #2

12V TRIGGER IN/OUT

STORAGE #1

MQA — DSD Direct Stream Digital — DXD Digital eXtream Definition — HD music 32Bit/384Khz High Resolution Audio — HD music 24Bit/192Khz High Resolution Audio

DSD | DXD | PCM | flac | HD FLAC (24bit/192KHz)
AAC | WAV | WMA | M4A | HD WAV (24bit/192KHz)
MP3 | Ogg | M3U | PLS | MP3 | APE/CUE
CAF | ALAC | AIFF | AIF | HD music 32Bit/384Khz High Resolution Audio

High Performance System Resources and custom-designed software

Based on Dual Core ARM Cortex A9 main processor running at 1.0GHz, additional 32Bit/500MIPS Microcontroller and custom-designed smart software, the X50D will satisfy highend audiophiles and all music lovers with great performance and versatile features

Wonderful Sound Quality created by in-house circuit design know-how and qualified components

Our all experiences, know-how and technoligies for digital circuit design accumlated for long period and qualified components are applied completely to the X50D to deliver great sound to music lovers

XMOS 32Bit/500MIPS 8 Core Powerful Microcontroller

X50D can support up to Native DSD256 via its I²S Digital Output(RJ45 & HDMI) for highend audiophiles who have already a nice DAC which has I²S Digital Input

I²S OUT

DAB+ Tuner and FM Radio Tuner

For high quality digital radio and traditional FM Radio, X50D offers DAB+ tuner and FM tuner

ANTENNA
DAB+ / FM

High Quality Digital Out Terminal

Two Coaxial Out, Toslink and AES/EBU XRL are available to let users make perfect audio component system by connecting to various external devices

DIGITAL OUT
1 — COAXIAL — 2 | OPTICAL | AES / EBU XLR

♻ USB Audio Class 2.0 Output

For music lovers and audiophiles who have already nice USB DAC, the USB Audio Out solution will be very useful

♻ 12V Trigger Out and In

You could use 12V Trigger Out/In to trigger(on/off) a connected device like amplifier

♻ Word Clock

Via this Word Clock Out, X50D will send out the sample rate signal of currently playing file

♻ Two High Speed USB3.0 Host Ports

For quick data transfer purpose, X50D offers two(2) high speed USB3.0 Host ports at rear side

♻ HDMI for bigger external screen or Audio out

Via this HDMI out, users may connect to bigger external screen for GUI, or connect to an audio devices which have HDMI input

♻ RAID System with Two Storage Deck for Music Server

X50D offers two storage decks which accept 3.5"/2.5" SATA hard disk and Solid State Drive(SSD). According to users' purpose, they can setup RAID system easily. X50D offers three(3) kinds of RAID mode such as Mirror, Stripe and Big

☾ CD Ripping with Gracenote CD metadata and Album cover art

Load all your CD collection onto the X50D Music Database in FLAC, ALAC, WAV or MP3 file format with professional CD metadata and album cover art from Gracenote

☾ Music Database function

The X50D has a well-organized Music Database built-in, which offers very nice and convenient functions like SEARCH, display by text or cover art, SORT, various View, etc

**Load your vinyl and cassette tape collections to the X50D in 192Khz Hi-Res digital audio file**

Digital Inputs

X50D has digital inputs(Toslink & Coaxial) for connecting to external source devices. You can make your own digital music collection by X50D's recording function

Recording with 192Khz hi-res sampling rate

The X50D offers a recording function for internet radio, DAB+/FM radio and Digital Inputs. You can make your own digital music collection with wonderful sound
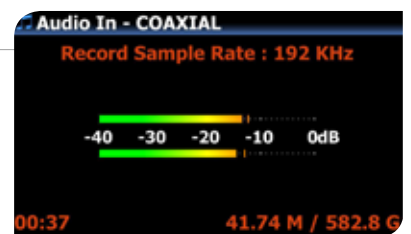
Auto/Manual Cutting for the recorded files

Auto/Manual cutting function to edit the recorded files is available at the X50D. You can easily edit files and import them into X50D Music Database

⟳ Versatile Networking and Remote Control with a Customized App

Connect the X50D to your network for streaming music to and from other devices, listen to cloud based music services and control remotely using mobile devices with our customized remote control app, NOVATRON MusicX or WebInterface

⟳ Control remotely by mobile devices with customized Remote Control App, NOVATRON MusicX app

⟳ Major Music Streaming Services integrated

You can access tens of thousands of internet radio stations and online music services like TIDAL, Deezer, Napster and Qobuz including Spotify Connect function

⟳ Control remotely by PC with WebInterface

Control the X50D remotely by your PC with its nice WebInterface function

⟳ Support various network protocols like UPnP Server/Client/Renderer, Samba Server/Client

Stream songs to and from other compatible devices in the same network

⟳ AirPlay and Spotify Connect

You can play songs from iOS devices and musics from Spotify via X50D wirelessly

⟳ Control X50D by Roon

As X50D supports 'Roon Ready', you can control X50D with Roon, which is great music player for music loves

↻ 7 inch TFT LCD Screen for Intuitive GUI and HDMI Out for external screen

7 inch big screen will let you control the X50D easily with intuitive GUI, and connect it to your TV for an external screen to view bigger GUI or a slideshow of photos while listening to your music collection

↻ DAB+/FM Radio Tuner built-in

Enjoy high quality digital radio via DAB+ Tuner, and record any song or broadcast with high quality sound

↻ High Connectivity for various external devices connection

• 2 x USB3.0 host at rear and 1 x USB2.0 host
• GigaFast Ethernet LAN
• HDMI Out for external screen or Audio out
• USB Audio Class2.0 Output
• Digital Outputs(2 x I²S, 1 x Word Clock, 2 x Coaxial, 1 x Toslink, 1 x AES/EBU XRL, 1 x HDMI)
• Digital Inputs(1 x Coaxial, 1 x Toslink)
• And more

↻ Two(2) Storage Decks for Music Server

3.5"/2.5" SATA hard disk and Solid State Drive(SSD) is accepted to the X50D, which supports up to 8TB capacity of individual storage.
X50D offers RAID System configuration. According to users' purpose, they can setup RAID system easily by themselves. It offers three(3) kinds of RAID mode such as Mirror, Stripe and Big

↻ Rugged and durable casing with full aluminum CNC cutting

The X50D front panel is based on 13mm thickness aluminum with CNC cutting, and whole body also is based on full aluminum CNC cutting. The die-cast aluminum feet provide rigidity along with additional resistance from external vibration.
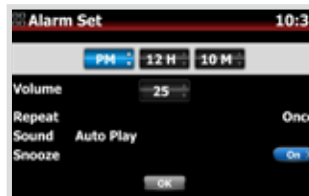
Many Useful functions

Created by custom-designed smart software developed by in-house R&D center
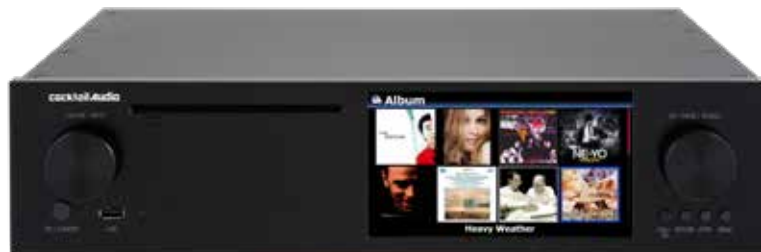
Listing by Text or Cover Art

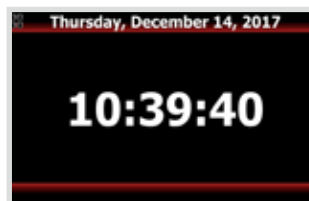To display album or song list by Text or Cover Art by pressing TEXT/ART key of RC

Alarm

X50D offers Alarm function

Sleep function

Pressing SLEEP key of RC will make X50D powered off automatically after set time

Clock & Display OFF

Pressing CLOCK key of RC will make X50D screen show current clock or off

Jump to Song Mode

On Now Playing screen, pressing CAP/NUM key of RC will lead you to 'Jump to Song Mode' or 'Seek to Percent Mode' On 'Jump to Song Mode', pressing numeric key is to jump to the song equal to the pressed number

Seek to Percent Mode

On 'Seek to Percent Mode' pressing numeric key is to seek the location of the playing file equal to the pressed number

Auto CD Ripping function

When you want to rip many CDs, Auto CD ripping function will be helpful. If you insert CD to the X50D, remaining tasks will be done by X50D until the CD is ejected after CD ripping is completed
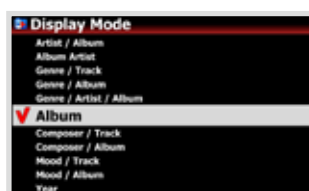
Display Mode

You can display Music DB list by unit of Album, Genre, Track, Artist, Composer, Year, Mood, etc

To merge multi-album or rip it into one folder(Album)

You can rip Multi-album into one folder (album)

Reservation Recording

Schedule when you want the X50D to record iRadio with reservation recording

Auto Cutting function

Using this function, you can edit a file recorded by X50D easily

Edit recorded files

Edit recorded files cutting by unit of track or adding album tag info

ROON Ready

If you like 'ROON' remote app from Roonlabs, you can use it with the X50D

Audio file format conversion

Convert existing audio files into other formats, (e.g. mp3, FLAC, WAV, MP4) for use on other devices
-MP3 player, car stereo, etc

Audio CD Burning
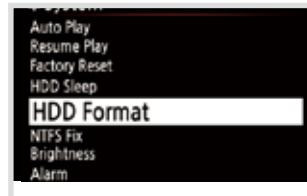
You can burn Audio CD with the X50D

Gapless Playback

Scroll Speed

Control text scroll speed on the screen

HDD Format

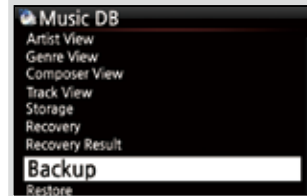Easy solution to format hard disk with Linux file system or NTFS

Import & Export your music

Import/Export music to/from the X50D Music DB via USB or over a network

Edit music tag info
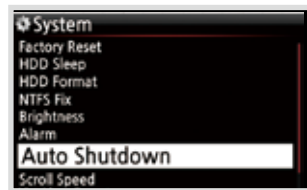
Make Playlist

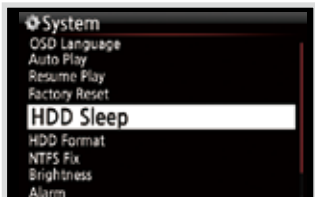## Music DB backup & Restore
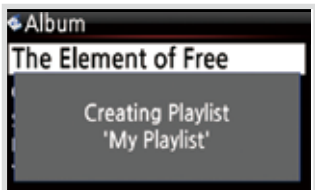
Make 'My Playlist'

This is virtual playlist. If you stop playing it, My Playlist will disappear

Auto Shutdown

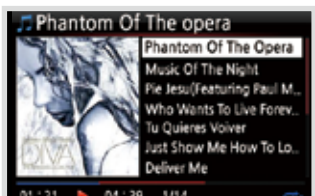Schedule when you want the X50D powered off

HDD Sleep

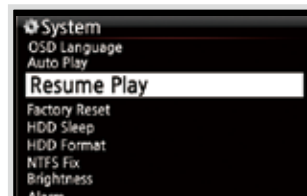Go into sleep mode as set

USB Keyboard

Use an USB keyboard to edit song tag info easily

Section Repeat

Set specific section to play repeatedly

Resume Play

After booting up, resume playing automatically where it was last stopped