⟲ Specification

Model name	cocktailAudio X50Pro		Remarks
Host CPU & Memory	CPU: Quad 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 1	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 3	RJ45	Native DSD, DoP, PCM up to 24bit/192Khz	
		HDMI#1	Native DSD, DoP, PCM up to 24bit/192Khz	
		HDMI#2	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 (3 modes: Mirror, Stripe or Big)
	SSD	2.5" SATA, up to 8TB	
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), PCM 32Bit/384Khz, 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, HighresAudio	
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		
Enclosure	Material	Whole enclosure is fabricated by precision CNC machine with beautiful glass-sanding high-quality aluminum	
	Dimension	Without foot	440mm(W) x 329mm(D) x 118mm(H)	
		With foot	440mm(W) x 329mm(D) x 130mm(H)	
Weight	11.5Kg (Device only without accessory and carton box)		
Certificate	CE, FCC, EMI, etc		

※ Specification may be changed without notification

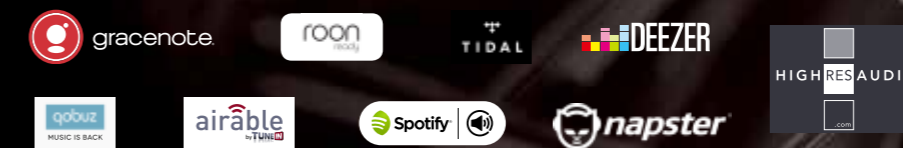## NOVATRON

www.cocktailaudio.com
e-mail: nwkoh@novatron.co.kr

cocktail Audio X50 Pro

MQA DSD (Direct Stream Digital) DXD (Digital eXtream Definition) HD 32Bit/384Khz HD 24Bit/192Khz

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

cocktail Audio X50 Pro

The Reference Pure Digital Music Server, CD Ripper and Network Streamer for Audiophiles

Enjoy highest performance, versatile functions and easy use wtih audiophile level sound quality

gracenote. roon ready TIDAL DEEZER HIGHRESAUDIO.com

qobuz MUSIC IS BACK airable by TuneIn Spotify napster

P o w e r e d   b y   N O V A T R O N

gracenote. | roon | TIDAL | DEEZER | qobuz MUSIC IS BACK | airable by TUNEIN | Spotify | napster | HIGH RES AUDIO

What is the cocktailAudio X50Pro

The X50Pro is the very digital source device that the audiophiles have been looking for to manage huge amount of hi-res digital music collections conveniently, and to connect to their existing external DAC and Amplifier to play with superb sound quality. The X50Pro is the reference multi-purpose Music Server with the functions of Media Player, CD Ripper, Network Streamer, Music Recorder and much more for music lover.

As X50Pro is equipped with ultra-low phase noise oscillator, CCHD-575 from Crystek Corporation, extensively shielded SMPS with aluminum cover and highly qualified printed circuit board designed by in-house R&D team, the X50Pro surely guarantees great sound quality with jitter and electrical noises minimized to negligible level.
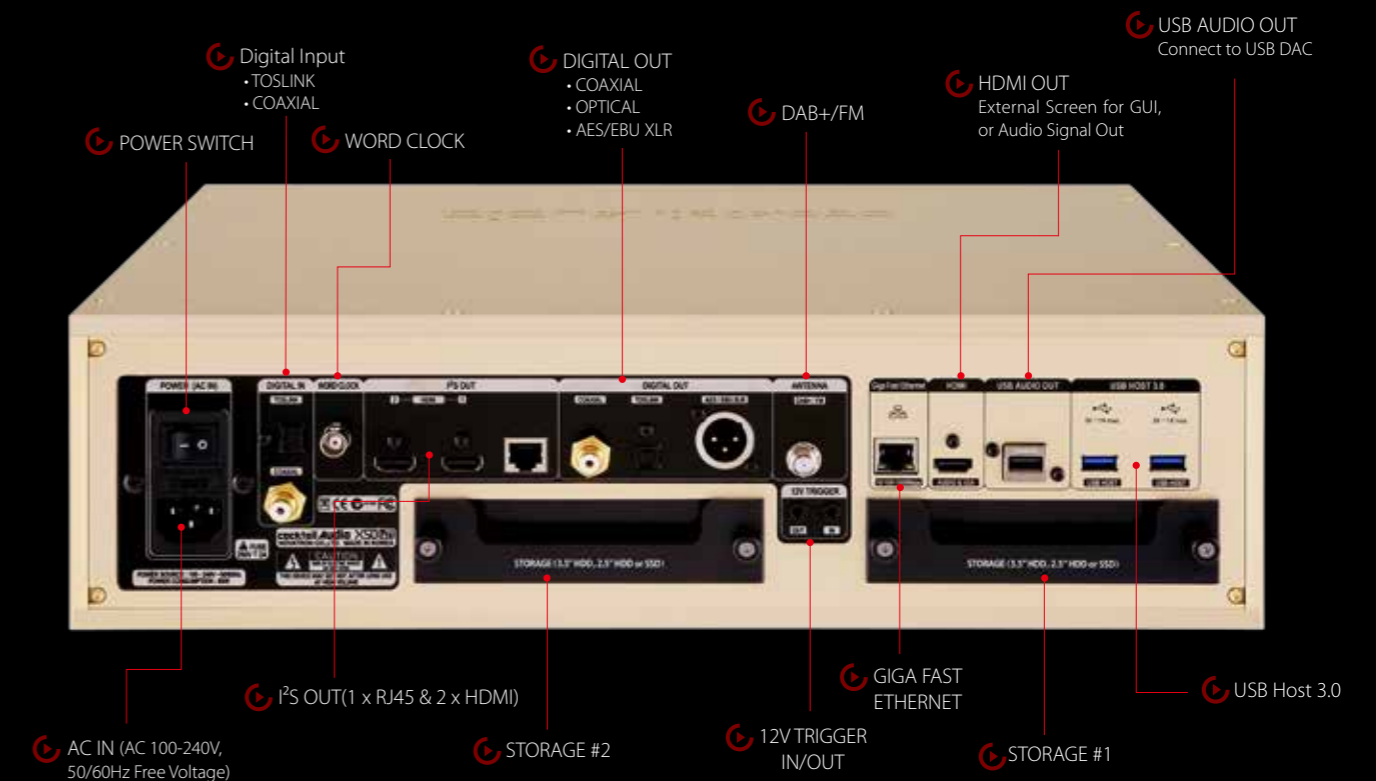
Equipped with Quad Core ARM Cortex A9 Processor, additional powerful XMOS microcontroller, beautiful whole glass-sanding aluminum enclosure crafted by precision CNC machine and versatile features of software developed by in-house R&D team, the X50Pro surely will be the best pure digital music player and server for the audiophiles in the world.
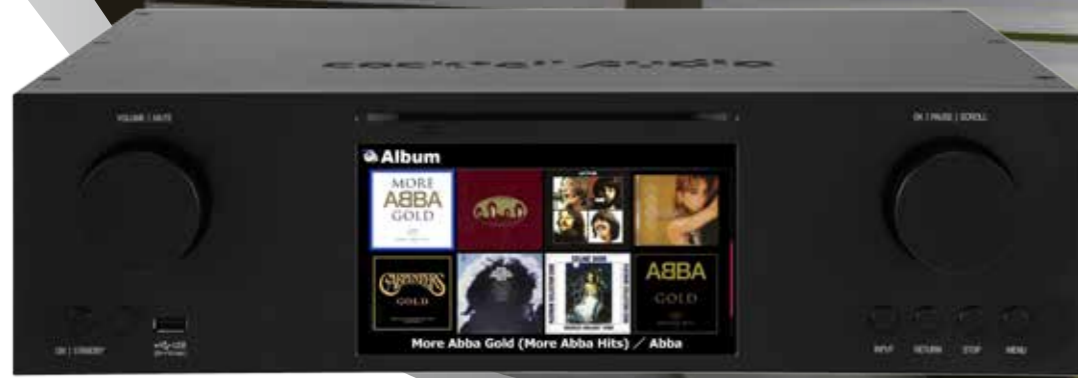
Features of Hardware and Engineering

• Equipped with high-performance Quad Core ARM Cortex A9 processor running at 1.0Ghz
• XMOS 32bit/500MIPS 8 Core Powerful Microcontroller
• Reference-level sound quality delivered by a combination of Ultra-low phase noise oscillator, CCHD-575 from Crystek Corporation, and completely shielded SMPS with aluminum cover to minimize electrical noises and in-house circuit design ability accumulated for decades
• 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(two HDMI Out and one RJ45 Out) to support up to Native DSD including 24Bit/192Khz, and two I²S HDMI Out will surely increase compatibility with other brands DAC devices
• 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
• Rugged and beautiful glass-sanding whole aluminum enclosure fabricated by precision CNC machine
• HDMI Out connector to use an external screen like TV as its bigger GUI screen or audio signal out

Versatile Software functionalities and usage

• Support various file formats like MQA, DSD(64/128/256), PCM 32Bit/384Khz, 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
• Convenient Music Database function
• Load your vinyl and cassette tape collections, DAB+/FM Radio, Internet Radio to X50Pro MusicDB via its recording function with hi-res sampling rate 192Khz
• 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, HighresAudio 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
• High Connectivity

Digital Input
• TOSLINK
• COAXIAL

DIGITAL OUT
• COAXIAL
• OPTICAL
• AES/EBU XLR

DAB+/FM

USB AUDIO OUT
Connect to USB DAC

HDMI OUT
External Screen for GUI, or Audio Signal Out

POWER SWITCH

WORD CLOCK

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

I²S OUT(1 x RJ45 & 2 x HDMI)

STORAGE #2

12V TRIGGER IN/OUT

GIGA FAST ETHERNET

STORAGE #1

USB Host 3.0

MQA DSD *Direct Stream Digital* DXD *Digital eXtream Definition* HD 32Bit/384Khz HD 24Bit/192Khz

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 32Bit/384Khz *High Resolution Audio*

More Abba Gold (More Abba Hits) / Abba

High Performance System Resources and custom-designed software

Equipped with Quad Core ARM Cortex A9 main processor running at 1.0GHz, additional 32Bit/500MIPS Microcontroller and custom-designed smart software, the X50Pro is a reference-level pure digital music server to deliver great sound and verstile functions

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

Our all experiences, know-how and technolgies for digital circuit design accumlated for long period and qualified components like ultra-low phase noise oscillator, CCHD-575 from Crystek Corporation are applied perfectly to the X50Pro to create great sound quality

Minimizing electrical noises from SMPS

To minimize delectrical noises, SMPS is perfectly shielded with high quality aluminum

DAB+ Tuner and FM Radio Tuner

For high quality digital radio and traditional FM Radio, X50Pro offers DAB+ tuner and FM tuner

XMOS 32Bit/500MIPS 8 Core Powerful Microcontroller

X50Pro can support up to Native DSD256 via its I²S Digital Output(RJ45 & HDMI x 2) for highend audiophiles who have already a nice DAC which has I²S Digital Input. To increase compatibility with other devices, X50Pro offers two(2) I²S HDMI Out

Beautiful Aluminum Eclosure fabricated by precision CNC machine

The X50Pro whole enclose is precisely crafted with beautiful glass-sanding aluminum, which is fabricated by precision CNC machine

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) connected devices like DAC and Amplifier

Word Clock

Via this Word Clock Out, the X50Pro will send out the sample rate signal of currently playing file

Two High Speed USB3.0 Host Ports

For quick data transfer purpose, the X50Pro offers two(2) high speed USB3.0 Host ports at rear side

High Quality Digital Out Terminal

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

RAID System with Two Storage Deck for Music Server

X50Pro 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. X50Pro offers three(3) kinds of RAID mode such as Mirror, Stripe and Big
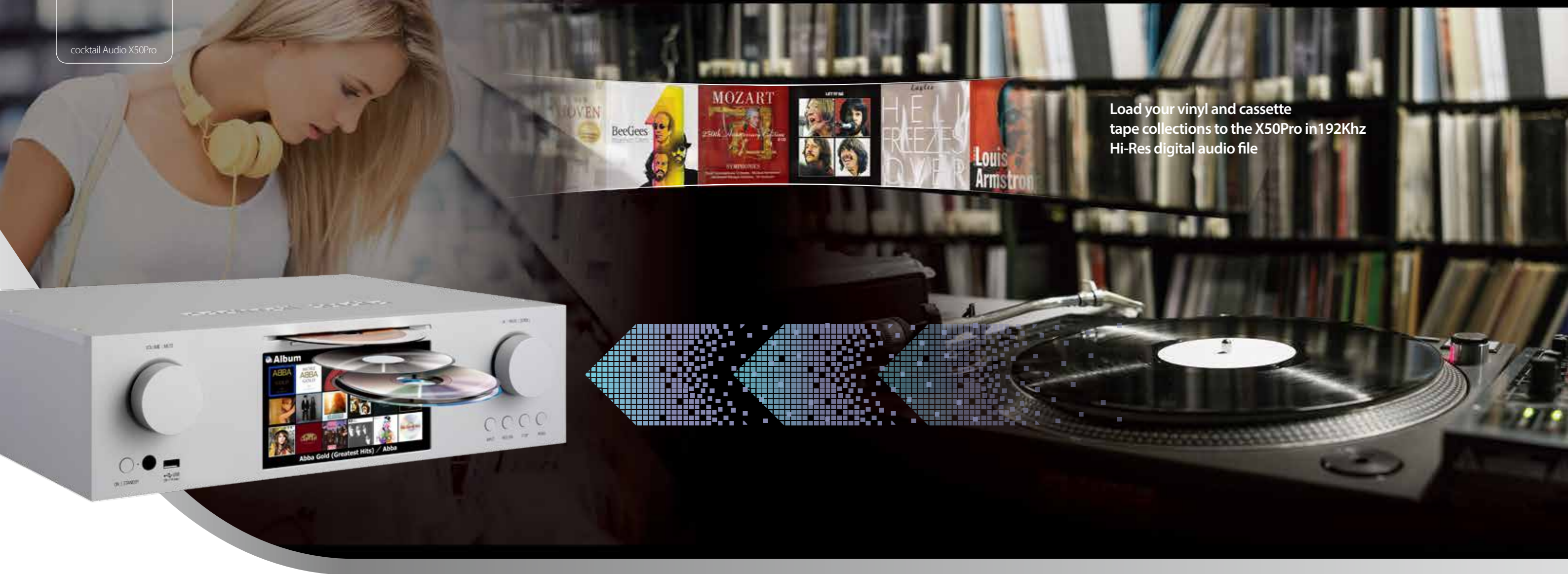
HDMI for bigger external screen or Audio out

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

Inside View of X50Pro

Load your vinyl and cassette tape collections to the X50Pro in 192Khz Hi-Res digital audio file

CD Ripping with Gracenote CD metadata and Album cover art

Load all your CD collection onto the X50Pro Music Database in FLAC, ALAC, WAV or MP3 file format with professional CD metadata and album cover art from Gracenote

gracenote.

Music Database function

The X50Pro 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

Album — Eagles / Eagles

Artist / Album — Elton John

Digital Inputs

X50Pro has digital inputs(Toslink & Coaxial) for connecting to external source devices. You can make your own digital music collection by X50Pro's recording function

DIGITAL IN
TOSLINK
COAXIAL

Recording with 192Khz hi-res sampling rate

The X50Pro offers a recording function for internet radio, DAB+/FM radio and Digital Inputs. You can make your own digital music collection with wonderful sound

Audio In - COAXIAL
Record Sample Rate : 192 KHz
-40   -30   -20   -10   0dB
00:37   41.74 M / 582.8 G
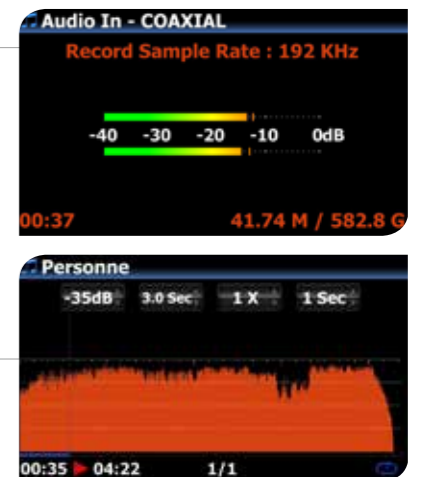
Auto/Manual Cutting for the recorded files

Auto/Manual cutting function to edit the recorded files is available at the X50Pro. You can easily edit files and import them into X50Pro Music Database

Personne
-35dB   3.0 Sec   1 X   1 Sec
00:35 ▶ 04:22   1/1

Versatile Networking and Remote Control with a Customized App

Connect the X50Pro 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, HighresAudio and Qobuz including Spotify Connect function

Control remotely by PC with WebInterface

Control the X50Pro 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 X50Pro wirelessly

Control X50Pro by Roon

As X50Pro supports 'Roon Ready', you can control X50Pro 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 X50Pro 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 (3 x I²S, 1 x Word Clock, 1 x Coaxial, 1 x Toslink, 1 x AES/EBU XLR, 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 X50Pro, which supports up to 8TB capacity of individual storage.
X50Pro 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 Beautiful Aluminum Enclosure fabricated by precision CNC machine

The X50Pro whole enclosure is precisely crafted with beautiful glass-sanding aluminum, which is fabricated by precision CNC machine. This will help surely to create more beautiful sound for music lovers

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

Sleep function

Pressing SLEEP key of RC will make X50Pro powered off automatically after set time

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

Auto CD Ripping function

When you want to rip many CDs, Auto CD ripping function will be helpful. If you insert CD to the X50Pro, remaining tasks will be done by X50Pro until the CD is ejected after CD ripping is completed

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

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

Auto Cutting function

Using this function, you can edit a file recorded by X50Pro easily
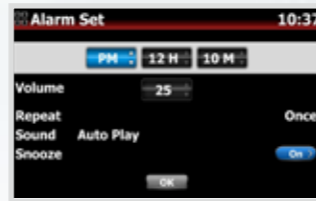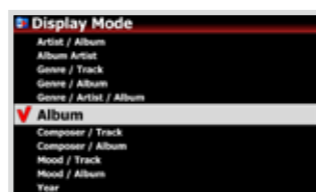
Alarm

X50Pro offers Alarm function
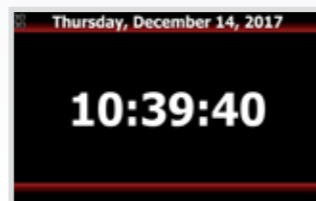
Clock & Display OFF

Pressing CLOCK key of RC will make X50Pro screen show current clock or off

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

Display Mode

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

Reservation Recording

Schedule when you want the X50Pro to record iRadio with reservation recording

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 X50Pro

Audio CD Burning

You can burn Audio CD with the X50Pro

Scroll Speed
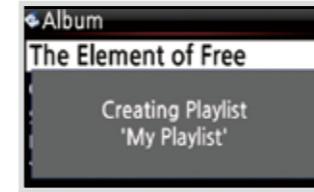
Control text scroll speed on the screen

Import & Export your music

Import/Export music to/from the X50Pro Music DB via USB or over a network

Make Playlist

Make 'My Playlist'

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

HDD Sleep

Go into sleep mode as set

Section Repeat

Set specific section to play repeatedly

Audio file format conversion

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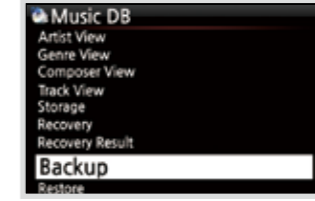-MP3 player, car stereo, etc

Gapless Playback

HDD Format

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

Edit music tag info
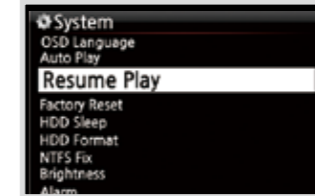
Music DB backup & Restore

Auto Shutdown

Schedule when you want the X50Pro powered off

USB Keyboard

Use an USB keyboard to edit song tag info easily

Resume Play

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