

LUXMAN

DIGITAL UNIVERSAL PLAYER

DU-7

ULTIMATE FIDELITY : *Luxman* A LIMITED EDITION CRAFTED BY L

digital
data off

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SACD

LUXMAN CORPORATION

New evolution of universal player matching to SACD multi-channels

Reproduction with the overall specifications of optical disk.

Here comes out the universal player DU-7 boasting high sound quality.

Not confined by the specifications of media, all of the digital sources being able to be freely enjoyed with a higher grade is a desire for all audio-lovers. Based on this idea, Luxman has in 2000 launched universal player DU-10 for matching to all 12cm optical disks. For improving the excellent sound quality of high format media, the tapping of deep potential of universal player for the leaping improvement of the music reproduction in the existing CD was proposed again.

Now on the basis of technology and know-how cultivated through the development of DU-10, the new model DU-7 that could matching to the new

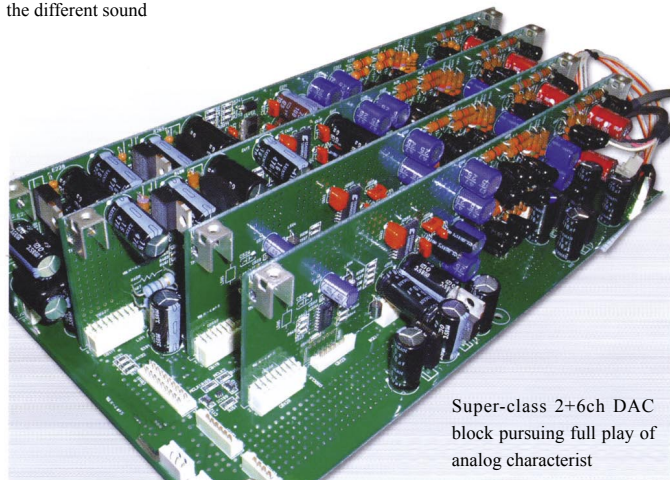
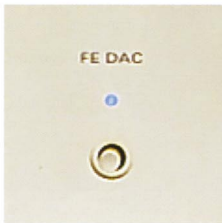
multi-channel format of SACD was launched. High-end level could be gained from not only DVD video, DVD audio, SACD, but also from CD player. This is the DU-7 which was produced by Luxman by installing the self-developed FE·DAC and by establishing audio brand in the universal player which could replay all of the digital sources with one player. It is a new proposal from Luxman.

AUDIO TECHNOLOGY

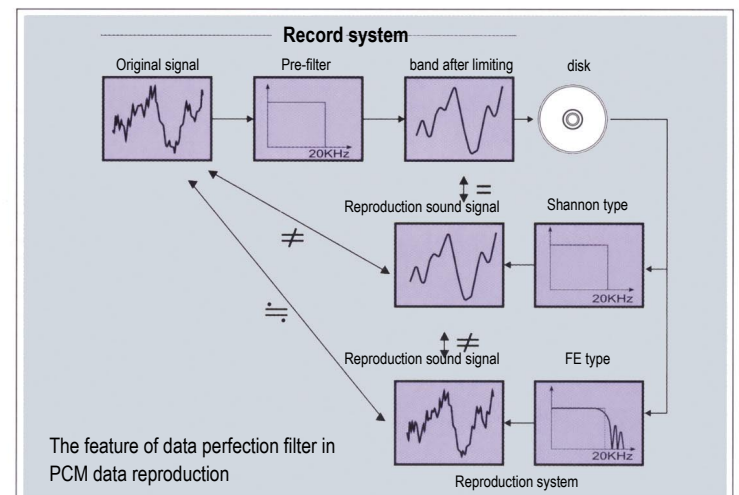
The dual DAC construction of FE mode and Shannon mode

The band limit of frequency that could be heard by human ear is 20kHz. In reality, the sound with its band surpassing the audible frequency exists, and the natural sound is generated by combining audible frequency with non-audible frequency. But, when recording music information on CD, the frequency above 20kHz will be deleted. Here comes out the FE (fluency), a perfection theory developed for reproducing the sound with its frequency over 20kHz from the above-mentioned CD format.

In DU-7, two kinds of DAC were built in. One is "FN1242A" applied the FE perfect function developed by Luxman, the other is "CS4392" Shannon format developed by Shiiirasu Logic Company adopted in the original high end system. By selecting the favorable DAC with a feeling of changing the cartridge of analog player, one could enjoy the different sound.



Super-class 2+6ch DAC block pursuing full play of analog characterist



In the Shannon type, the wave form almost the same with the wave form formed after limiting the band with pre-filter could be gained, but it is a wave form different from the original signal. Compared with this, in the FE type, it could faithfully reproduce the wave form of the original signal although it is different from the wave form after limiting the band.

	Fluency type	Shannon type
Impulse response		
Step response		
Frequency Characteristic		

Matching to the SACD multi-channel soft

This is the attractive SACD as a new generation format of music CD. DU-7 could match to the reproduction of SACD multi-channel soft. By adding to the CD, DVD audio, DVD video and matching to the SACD multiple reproduction, it could actually cover all the 12cm optical disk media used for audio. It has the real power as an universal player. In SACD and DVD video, the multi-channel source could be freely down mixed on the 2ch/4ch, etc. (medium) with the functions of speaker configuration. In addition, the 5.1ch Dolby digital (AC-3) of DVD video soft and the DTS sound could be decoded inside the player, and could be externally output via the analog circuit of high quality multi-channel.

It could be used as pure audio special machine with video OFF function

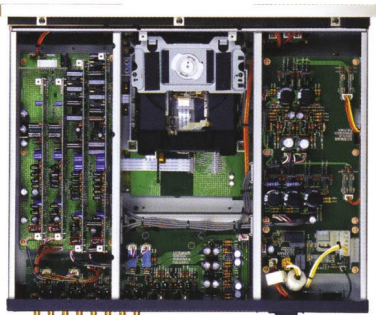
For eliminating the interfering noise of each circuit, Luxman has poured all of the know-how accumulated for years in the production of amplifier. First of all, every circuit should be laid out in their ideal positions. And it has adopted the shield barrier which could control the noise by the case construction, and made every effort for treating the noise. While adopting the video image circuit, the DU-7 has considered how to use the pure audio environment. It is also installed with the video OFF function for completely shutting off the impact from video circuit exerting on the audio signal, as well as on the power circuit. Thus it is possible for using it as the special player purely for audio.





The dedicated chassis construction

The articulation board constituted with the cast iron and the insulator are adopted on the chassis bottom. Thus it has achieved surprisingly low resonance and could completely eliminate the impact exerted on music and image signal by un-wanted vibration. In addition, the efforts dedicated on audio chassis for improving the high purity music signal, for example, by adopting the "Vertical construction" separated from other blocks have further enhanced the grade of audio player.



The high bit function which could improving the resolution was built in

Through the installing of the "high bit function" which has re-quantized 16bit data recorded on CD and DVD into 24bit data of the highest position format of DVD audio, the resolution of sound becomes fresher, and the sound becomes much like the natural sound.

The special transistor specially used in audio circuit and high inertia power source

In audio circuit, the special R core type transistor separated from the digital circuit was built in. Because it has taken the "high inertia power source" format in the circuit which realizes the reproduction of natural music, so the ordinary sufficient energy was kept in power source part. Powerful pure power could be provided to meet every rising and falling of the sounds at any moment.

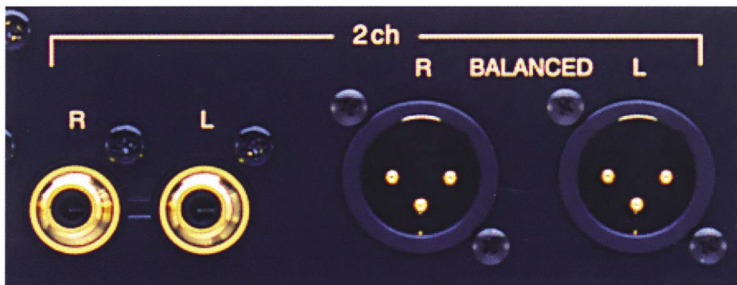
A great deal of high quality original custom-made parts are put into use

In DU-7, original high sound quality custom-made parts of Luxman are used in every part. The resistors are at audio special grade and have the features of high-density information volume and super-lower distortion using in high-end amplifier. It could not only wholly keep the tiny nuance in sound, but also could meticulously reproduce the background space where the music was played. On the basis of know-how developed after long years' cultivation on audio by Luxman, the capacitor has adopted original series that have removed the impact on the music sound. For thoroughly pursuing the pure signal, the study and inspection are completely conducted on the items from material to the structure.

DIGITAL UNIVERSAL PLAYER

DU-7

Sufficient high grade output terminals are equipped with



RCA/XLR is collected, 2ch analog output terminal group

For perfecting the pure sound and image of Luxman, the 2ch analog output terminal was equipped with RCA terminal and XLR terminal. The treatment of high purity gold plating was done and 5 1ch Dolby digital output terminal, coaxial digital output, etc. are prepared. By adopting the terminal group of component output terminal, D1/D2 S1/S2 terminal, coaxial output terminal in the image, it could match to the broader connecting environment for the high end audio player and the reproduction machine for image.

VIDEO TECHNOLOGY

High resolution image gained from 108MHz/12bit DAC

In the high level 108MHz/12bit DAC adopted in DU-7's image system, the ADV7300 made of Analog Device Company enjoying a high evaluation in the world was adopted. Combined with the results of the newly-developed analog filter, the excellent S/N and linear image quality could be obtained. Furthermore, with the installation of super fine focus digital filter, 540 pixel of horizontal resolution could be reached. The circling noises occurred at unwanted bands will be cut down greatly, a fresh contrast and sharp profile expressive force could be obtained.

Pure cinema progressive circuit was built in

DU-7 could obtain the faithful reproduction force from the original image by adopting the pure cinema progressive circuit which could carry out automotive process in accordance with the image. It could not only faithfully reproduce the original high definition image on the basis of 2-3 pull down processing information after telecine changing some works such as the films recorded on DVD from the source material of film, but could also bring the smooth and natural actions via the high resolution algorithm processing.

LUXMAN

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DU-7



NEW
DU-7W



DU-7 SPECIFICATIONS

Reproducible disk	DVD audio, DVD video, SACD, CD, video CD, CD-R, MP3 file
Audio DAC	DVD audio, 192kHz/24bit CD 192kHz/24bit SACD 1bit DSD
Audio decoder	DVD audio multi-ch, Dolby Digital, DTS, SACD multi-ch
Frequency characteristic	4Hz-45kHz (DVD audio, SACD)
Dynamic range	> 115dB (DVD audio, SACD)
Video DAC	108MHz/12bit
Progressive process	2-3 pull-down mode, moving-matching type perfection mode
Analog audio output	Front L, R (RCA2 system, XLR balance 1 system), SL, SR, C, SW (1 system each)
Digital audio output	Photo output (TOS-Link 1 system), coaxial output (RCA1 system)
Video output	D2 (1 system), component (RCA 1system), S2 (2 systems), composite (RCA 2 systems)

Subsidiary functions

Power switch	Video OFF switch/indicator
FE DAC switch/indicator	Digital data OFF indicator
FL display OFF indicator	FL display
Display	Operation key
Line phase sensor (rear panel)	AC inlet (rear panel)
Power voltage	AC 100V (50/60Hz)
Power consumption	25W (Based on the Safety law on electrical appliances)
Dimension	467 (W) X 148 (H) X 394 (D) mm
Weight	15.0Kg (Body)

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