

**LUXMAN original high-rigidity disk drive mechanism integrated
Full discrete ODNF balanced amplifier used
Debut of D-08, 2-channel-specific SACD player**

MODEL NAME		COLOR	SCHEDULED RELEASE
SUPER AUDIO CD PLAYER	D-08	Blasted-metal white	January, 2009



SUPER AUDIO CD PLAYER D-08

OUTLINE

We will release our SACD/CD compatible digital player, D-08 that is the first 2-channel-specific model in 10 years^{*1}. D-08 is a sound source reproduction system in the new area that has been reconstructed by integrating various new techniques and a large amount of know-how for the purpose of sound quality improvement created in this decade in 80 years since LUXMAN foundation after we have gone back to our first objectives with regard to 3 elements, i.e. "Mechanism, Digital Circuit, and Analog Circuit" that constitute a digital player.

The long-awaited LUXMAN original disk drive mechanism has been newly designed under the concept of the rigidity of the whole mechanism block, the accuracy of sound signal reading, and quiescence during operation, and has been equipped with the aluminum die-cast thin type tray loader with dust-proof sealing shutter. In the digital section with as much as 132 dB (theoretical value) of tremendous dynamic range, PCM1792A that is a multi-segment type DA converter with hybrid configuration consisting of multi-bit and single-bit manufactured by Texas Instruments Incorporated is centered, and the jitter reduction that has achieved 1/100 or less jitter compared with our conventional counterpart and 24-bit extender that increases the CD dynamic range are integrated. The decimation filter with which the high-grade multi-bit output is selectable besides the DSD output for SACD is also integrated.

For the output amplifier, we have used ODNF^{*2} circuit of full discrete configuration, which is the essence of our techniques for high sound quality in a digital player for the first time. And then, balance drive has been thoroughly achieved for the DA converter output, and accordingly a large amount of sound data contained in an SACD will be reproduced to the full.

We have finally put our technologies and heritages of the anniversary model lineup started in 2005 commemorating 80 years since LUXMAN foundation into our digital players, and consequently our self-proclaimed ideal of sound reproduction in an avocational audio system is significantly approaching completion by making the launch of the new D series.

*1 CD players of the main stream were sold: D-10 in 1997 and D-7 in 1998.

*2 ODNF is an abbreviation for "Only Distortion Negative Feedback".

FEATURES AND SPECIFICATIONS

■Disk drive mechanism

- Integration of newly developed LUXMAN original high-rigidity disk drive mechanism has achieved digital data reading with high accuracy.
- This mechanism has introduced an asymmetrical left-sided mechanism layout after careful consideration of sufficient space for voluminous analog circuit, ideal flow for all kinds of signals, oscillatory path, and weight balance without the use of general type centered mechanism structure.
- A box structure is introduced, i.e. extremely thick square pillars are used to solidly enclose the whole mechanism to rigidly cut out external vibration.
- The sealing shutter mechanism is integrated into the disk tray section of the front panel to enhance dust prevention and quiescence.

■Digital circuit

- Dual-configured (monaural mode) PCM1792A manufactured by Texas Instruments Incorporated is used for the DA converter, which has achieved ultra-high signal-noise ratio/dynamic range (theoretical value: 132dB).
- The jitter reduction function is provided to decrease the jitter from the system clock (70 x 10⁻¹² sec. or less, approx. 1/100 compared with conventional counterpart).
- The bit extender function is provided to extend from 16-bit signals encoded on a CD to 24-bit signals resulting in reproduction of more delicate sound.
- You can select between native DSD format signals or decimated multi-bit PCM signals at SACD playing according your taste.
- You can simply switch between an SACD layer and a CD layer with the switch on the front panel (also available with the remote control) at using a hybrid SACD.
- A number of digital input terminals are provided (totally 3 lines consisting of 1 coaxial line and 2 optical lines) to allow you to enjoy the quality of "DA Converter + Analog Amplifier" integrated in our D-08 also with use of other digital devices (CD player, digital tuner, blu-ray disc player, etc.).

■Analog circuit

- For the output section, the ODNF circuit that supports high sound quality of our amplifiers has been introduced into the digital player category for the first time. We, this time, have inserted the knife into the error detection amplifier section that is the keystone of the circuit, and Introduced 3-parallel differential input FET, which has achieved 1/10,000 level of distortion rate resulting in major version upgrade to 3.0.
- The differential output of the DA converter is provided into the ODNF circuit that has thorough balance configuration (identically configured amplifier x 4 units) integrated in a discrete manner after I-V conversion, and drives the amplifier on the next stage vigorously with low impedance.
- In the analog circuit, there is not independent output filter block, but band processing is gradually (primary filter x 3 pieces) implemented in the ODNF circuit. Therefore, natural analog waveforms can be reproduced.
- Stable and high inertial power is supplied from the audio-specific power transformer to each circuit through the regulator and block capacitor with large capacity allocated for each circuit.

■Structure

- This system has a complex structure consisting of a loopless chassis to eliminate increased ground impedance and the effect of generated magnetic field caused by chassis current and a shielded chassis to block digital noise.
- The AC inlet suited for high sound quality is provided to which non-magnetic nickel treatment and gold plating were applied.
- The RCA terminal made of copper alloy that features copper's conductivity and brass's hardness and high-grade XLR terminal manufactured by Neutrik are used.
- The gradation cast-iron legs are provided to protect tiny delicate sound signals from unwanted vibration.

■Other items

- Peel coat PCBs without resist that adversely affect sound quality are used for all of the audio boards.
- This system has an FL display with a high level of visibility for various modes, which stands out against plaster white sophisticated exterior finishing.
- A slim type aluminum remote control equipped with a user-friendly numeric keypad is standard equipment.

Applicable disk	2-channel SACD, CD
Analog output	1 x unbalanced line, 1 x balanced line
Digital output (44.1kHz, only for CD/CD layer)	1 x coaxial line, 1 x optical line (TOS-LINK)
Digital input (32, 44.1, 48, 88.2, and 96kHz supported)	1 x coaxial line, 2 x optical lines (TOS-LINK)
Attached equipment	[Front panel] Power switch, play key, pause key, stop key, track forward/backward keys, disk ejection key, digital input selection, digital output ON/OFF, DSD/PCM selection, SACD layer selection, FL display, and disk tray [Rear panel] Input/output terminals, line phase sensor, and AC inlet [Remote control function] (all added to function switches on the main unit) Indication dimmer, track order program/random/repeat, numeric keypad, zoom, and time display selection
Dimensions and weight	400 x 153 x 400 mm (WxHxD) (terminals and knobs excluded from the dimension), 26.0kg
Accessories	Remote control (RD-14) and power cable