

Evaluating every material and construction technique leads to build perfection

## MC type phono cartridge LMC-5

Model		JAN Code	Color	Launch
MC PHONO CARTRIDGE	<b>LMC-5</b>	495813603621-8	Deep red	April, 2021



### Overview

We are proud to announce the release of our new moving coil (MC) cartridge, the LMC-5 at the end of April.

Sales of digitally encoded discs (CDs, SACDs and DVDs) have been decreasing every year by 10% over the last decade but vinyl records sales have seen almost a tenfold increase compared to 2010.

LUXMAN was one of the first to research the latest vinyl playback possibilities, coupled with modern audio technology, and launched the PD-171 analog player in 2011.

Since then, we have introduced outstanding, high-specification components to the world of audiophile league record playback, such as the adaptable tone arm type PD-171A, armless type PD-171AL and basic model PD-151 in conjunction with the EQ-500 and E-250 phono amplifiers. We're proud to have contributed to the booming analog market and continue to create for the future.

At this time, after a development period of about two years, we have decided to add a phono cartridge to our line-up, a crucial component to satisfying vinyl record playback.

The LMC-5 is LUXMAN's original cartridge, the first for almost 40 years since the LMC-1 was launched in 1981 and the LMC-2 in 1982. During the development of the LMC-5, we have focused on the stylus and cantilever to enable reliable groove reading, picking up the most delicate music signals engraved on the record. The carefully crafted body firmly supports every movement and suppresses deformation and squeal. We have thoroughly reviewed the materials and structures for the main parts that make up each channel's audio transmission stage, such as the linear energy generation engine that converts vibrations to electrical signals. By repeating trial production runs to fine tune details, we ensured that development procedures followed the development work on other components such our amplifiers, successfully achieving high fidelity analog record playback.

Enjoy the uplifting experience of the highest quality analog record playback with the LMC-5, individually assembled by the most talented craftspeople in cartridge manufacturing.

The specifications and appearance are subject to change before the launch of this product.

## Features

### ■ Stylus and power generation circuit

- The power generation mechanism is a moving coil (MC) type, reducing the weight of the armature
- The SHIBATA needle has less audible noise while delivering full range vinyl reading
- The aluminum cantilever has a neutral tone that goes well with the SHIBATA needle
- Reduced cross-channel sensitivity with directly wound cross mounted coils, to which the L/R power generation coils are wound symmetrically
- Circuit structure with minimal loop area reduces external noise
- The UEW coil wire has a radius of 30 $\mu$ m, the thinnest in the range, and is resistant to breakage while ensuring coil winding direction
- Low-distortion structure, using a single point piano wire support method for accurate vibration



LMC-5 mounted on OPPD-SH1  
LUXMAN's original magnesium  
headshell

### ■ Body structure and design

- A stylus unit is regarded as acoustically equivalent to a microphone, so resonance and reflected sound from around the device should be thoroughly suppressed.
- Next to the stylus unit, there is an outer wall protecting the cantilever
- Structural chassis with inverted oval curves to reduce resonance and reflections
- A carefully pared down body structure with minimal outer wall weight as a resonance countermeasure
- Alumite body design, dyed deep red, LUXMAN's corporate color

## Specifications

Power generation method	MC (MOVING COIL)
Inner impedance	4.7 $\Omega$ (1kHz)
Appropriate stylus pressure	2.1 to 2.3g (2.2g as standard)
Output voltage	0.4mV (1kHz, 3.54cm/sec.)
Playback frequency range	10Hz to 35kHz
Channel separation/balance	28dB (1kHz)/0.5dB (1kHz)
Recommended load resistance (when head amp is connected)	40 $\Omega$ or more
Recommended load resistance (when connecting a step-up transformer)	2.5 to 10 $\Omega$
Dynamic compliance	8 $\times$ 10 <sup>-6</sup> cm/dyne (100Hz)
Needle tip/shape	Solid diamond/SHIBATA needle
Cantilever	$\Phi$ 0.5mm aluminum
Vertical tracking angle	25°
Magnet	Samarium-cobalt magnet BH20
Coil	30 $\mu$ m UEW
Terminal	$\Phi$ 1.2mm, White : L(+)/Blue : L(-)/Red : R(+)/Green : R(-)
Magnetic circuit components	Pure iron
Body	Aluminum A6063
Dimension, Cartridge mounting hole	17.0(W) $\times$ 18.3(H) $\times$ 21.3(D) mm (excluding terminals), M2.6mm $\times$ 2
Weight	8.5g
Accessories	Owner's manual, Head shell mounting screws and washers, hexagon wrench, stylus cover
※ Cartridge shell and lead wire are not included	

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