

Model: DORIAN

Designer: Jonathan Carr

Manufacturing process: Hand-built to order by Lyra's sub-contractor.

Adjusted and and tuned by Yoshinori Mishima.

Type: Moving Coil, low-impedance, low-output, medium compliance

Frequency range: 10Hz - 50kHz

Channel separation: 30dB or better at 1kHz

Cantilever system: Lyra-designed cantilever assembly with solid boron rod cantilever, and natural diamond, Namiki MicroRidge line-contact stylus (2.5 x 75 micrometers profile). Cantilever assembly mounted directly to internal structure of cartridge body.

Electromagnetic generator system: Lyra proprietary pole-piece-less, dual neodymium discs, balanced symmetrical field, magnetic system with permalloy core and 99.9999 (6N) copper coils

Internal impedance: 9.5 ohms

Output voltage: 0.6mV (5.0cm/sec., zero to peak, 45 degrees)

Cartridge weight (without stylus cover): 6.4g

Compliance: Approx. 12×10^{-6} cm/dyne at 100Hz

Recommended tracking force: 1.8 – 2.0g

Recommended load direct into non-inverting RIAA equalizer amplifier or head-amplifier: 100ohms – 47kohms (determine best impedance value by listening)

Recommended load via step-up transformer: 5 – 15 ohms (step-up transformer's output must be connected to 47kohm MM-level RIAA input)

Model: DORIAN MONO

Designer: Jonathan Carr

Manufacturing process: Hand-built to order by Lyra's sub-contractor.

Adjusted and and tuned by Yoshinori Mishima.

Type: Moving Coil, low-impedance, low-output, medium compliance

Frequency range: 10Hz - 50kHz

Cantilever system: Lyra-designed cantilever assembly with solid boron rod cantilever, and natural diamond, Namiki MicroRidge line-contact stylus (2.5 x 75 micrometers profile). Cantilever assembly mounted directly to internal structure of cartridge body.

Electromagnetic generator system: Lyra proprietary pole-piece-less, dual neodymium discs, balanced symmetrical field, magnetic system with permalloy core and 99.9999 (6N) copper coils. For optimal monaural playback, core and coils are oriented at 90 degrees rather than the 45-degree orientation that is appropriate for stereo playback.

Internal impedance: 3ohms

Output voltage: 0.25mV (5.0cm/sec. RMS, horizontal movement, 1kHz)

Cartridge weight (without stylus cover): 6.4g

Compliance: Approx. 12×10^{-6} cm/dyne at 100Hz

Recommended tracking force: 1.8 – 2.0g

Recommended load direct into non-inverting RIAA equalizer amplifier or head-amplifier: 100ohms - 47kohms (determine best impedance value by listening)

Recommended load via step-up transformer: 2 - 10ohms (not more than 10ohms) (step-up transformer's output must be connected to 47kohm MM-level RIAA input)

Signal output format: Although the Dorian Mono is a monaural cartridge, for enhanced ease-of-use, the Dorian Mono provides two identical sets of outputs, that should each be connected to one channel of a stereo playback system. For optimal sound with a dedicated mono playback system, either of the Dorian Mono's signal outputs can be connected to the phono stage and the remaining output left unused, or the two outputs can be connected in series (via a jumper) for higher output voltage.

Model: ARGO

Designer: Jonathan Carr

Builder: Hand-built and voiced by Yoshinori Mishima

Type: Moving Coil, low-impedance, low-output, medium compliance

Frequency range: 10Hz - 50kHz

Channel separation: 30dB or better at 1kHz

Cantilever system: Lyra-designed cantilever assembly with solid boron rod cantilever, and natural diamond, Ogura-manufactured, Lyra original line-contact stylus (3 x 70 micrometers profile). Cantilever assembly mounted directly to internal structure of cartridge body.

Electromagnetic generator system: Lyra proprietary pole-piece-less, dual neodymium discs, balanced symmetrical field, magnetic system with 99.999 (5N) iron core and 99.9999 (6N) copper coils

Internal impedance: 4ohms

Output voltage: 0.45mV (5.0cm/sec., zero to peak, 45 degrees)

Cartridge weight (without stylus cover): 6.4g

Compliance: Approx. 12×10^{-6} cm/dyne at 100Hz

Recommended tracking force: 1.7 - 1.8g

Recommended load direct into non-inverting RIAA equalizer amplifier or head-amplifier: 100ohms -

47kohms (determine best impedance value by listening)

Recommended load via step-up transformer: 3 - 10ohms (step-up transformer's output must be connected to 47kohm MM-level RIAA input)

Model: HELIKON and HELIKON SL

Designer: Jonathan Carr

Builder: Hand-built and voiced by Yoshinori Mishima

Type: Moving Coil, low-impedance, low-output, medium compliance

Frequency range: 10Hz - 50kHz

Channel separation: 35dB or better at 1kHz

Cantilever system: Lyra-designed cantilever assembly with solid boron rod cantilever, and natural diamond, Ogura Professional Accuracy line-contact stylus (3 x 30 micrometers profile) Cantilever assembly mounted directly to internal structure of cartridge body.

Electromagnetic generator system: Lyra proprietary pole-piece-less, dual neodymium discs, balanced symmetrical field, magnetic system with 99.999 (5N) iron core and 99.9999 (6N) copper coils

Internal impedance: 5.5ohms (SL version: 3 ohms)

Output voltage: 0.5mV (5.0cm/sec., zero to peak, 45 degrees) (SL version: 0.22mV)

Cartridge weight (without stylus cover): 8.3g

Compliance: Approx. 12×10^{-6} cm/dyne at 100Hz

Recommended tracking force: 1.6 - 1.75g

Recommended load direct into non-inverting RIAA equalizer amplifier or head-amplifier: 100ohms - 47kohms (determine best impedance value by listening)

Recommended load via step-up transformer: 4 - 10ohms (not more than 10ohms) (step-up transformer's output must be connected to 47kohm MM-level RIAA input)

Model: HELIKON MONO

Designer: Jonathan Carr

Builder: Hand-built and voiced by Yoshinori Mishima

Type: Moving Coil, low-impedance, low-output, medium compliance

Frequency range: 10Hz - 50kHz

Cantilever system: Lyra-designed cantilever assembly with solid boron rod cantilever, and natural diamond, Ogura-manufactured, Lyra original line-contact stylus (3 x 70 micrometers profile)
Cantilever assembly mounted directly to internal structure of cartridge body.

Electromagnetic generator system: Lyra proprietary pole-piece-less, dual neodymium discs, balanced symmetrical field, magnetic system with 99.999 (5N) iron core and 99.9999 (6N) copper coils

Internal impedance: 3ohms

Output voltage: 0.25mV (5.0cm/sec. RMS, horizontal movement, 1kHz)

Cartridge weight (without stylus cover): 8.3g

Compliance: Approx. 12×10^{-6} cm/dyne at 100Hz

Recommended tracking force: 1.6 - 1.75g

Recommended load direct into non-inverting RIAA equalizer amplifier or head-amplifier: 100ohms - 47kohms (determine best impedance value by listening)

Recommended load via step-up transformer: 2 - 10ohms (not more than 10ohms) (step-up transformer's output must be connected to 47kohm MM-level RIAA input)

Signal output format: Although the Helikon Mono is a monaural cartridge, for enhanced ease-of-use, the Helikon Mono provides two identical sets of outputs, that should each be connected to one channel of a stereo playback system. For optimal sound with a dedicated mono playback system, either of the Helikon Mono's signal outputs can be connected to the phono stage and the remaining output left unused, or the two outputs can be connected in series (via a jumper) for higher output voltage.

Model: TITAN

Designer: Jonathan Carr

Builder: Hand-built and voiced by Yoshinori Mishima

Type: Moving Coil, low-impedance, low-output, medium compliance

Frequency range: 10Hz - 50kHz

Channel separation: 35dB or better at 1kHz

Cantilever system: Lyra-designed cantilever assembly with diamond-coated solid boron rod cantilever, and natural diamond, Ogura-manufactured, Lyra original line-contact stylus (3 x 70 micrometers profile). Cantilever assembly mounted directly to internal structure of cartridge body via knife-edge system.

Electromagnetic generator system: Lyra proprietary pole-piece-less, dual neodymium discs, balanced symmetrical field, magnetic system with 99.999 (5N) iron core and 99.9999 (6N) copper coils

Internal impedance: 5.5ohms

Output voltage: 0.5mV (5.0cm/sec., zero to peak, 45 degrees)

Cartridge weight (without stylus cover): 10.5g

Compliance: Approx. 12×10^{-6} cm/dyne at 100Hz

Recommended tracking force: 1.65 - 1.75g

Recommended load direct into non-inverting RIAA equalizer amplifier or head-amplifier: 100ohms – 47kohms (determine best impedance value by listening)

Recommended load via step-up transformer: 4 - 10ohms (not more than 10ohms) (step-up transformer's output must be connected to 47kohm MM-level RIAA input)

Model: TITAN MONO

Designer: Jonathan Carr

Builder: Hand-built and voiced by Yoshinori Mishima

Type: Moving Coil, low-impedance, low-output, medium compliance

Frequency range: 10Hz - 50kHz

Channel separation: 35dB or better at 1kHz

Cantilever system: Lyra-designed cantilever assembly with diamond-coated solid boron rod cantilever, and natural diamond, Ogura-manufactured, Lyra original line-contact stylus (3 x 70 micrometers profile). Cantilever assembly mounted directly to internal structure of cartridge body via knife-edge system.

Electromagnetic generator system: Lyra proprietary pole-piece-less, dual neodymium discs, balanced

symmetrical field, magnetic system with 99.999 (5N) iron core and 99.9999 (6N) copper coils

Internal impedance: 3ohms

Output voltage: 0.25mV (5.0cm/sec. RMS, horizontal movement, 1kHz)

Cartridge weight (without stylus cover): 10.5g

Compliance: Approx. 12×10^{-6} cm/dyne at 100Hz

Recommended tracking force: 1.65 - 1.75g

Recommended load direct into non-inverting RIAA equalizer amplifier or head-amplifier: 100ohms - 47kohms (determine best impedance value by listening)

Recommended load via step-up transformer: 2 - 6ohms (step-up transformer's output must be connected to 47kohm MM-level RIAA input)

Signal output format: Although the Titan Mono is a monaural cartridge, for enhanced ease-of-use, the Titan Mono provides two identical sets of outputs, that should each be connected to one channel of a stereo playback system. For optimal sound with a dedicated mono playback system, either of the Titan Mono's signal outputs can be connected to the phono stage and the remaining output left unused, or the two outputs can be connected in series (via a jumper) for higher output voltage.

Model: OLYMPOS and OLYMPOS SL

Designer: Jonathan Carr

Builder: Hand-built and voiced by Yoshinori Mishima

Type: Moving Coil, low-impedance, low-output, medium compliance

Frequency range: 10Hz - 50kHz

Channel separation: 35dB or better at 1kHz

Cantilever system: Lyra-designed cantilever assembly with diamond-coated solid boron rod cantilever, and natural diamond, Ogura-manufactured, Lyra original line-contact stylus (3 x 70 micrometers profile).

Electromagnetic generator system: Dual pole-piece structure made of gold-plated 99.999% (5N) iron, platinum magnet made of 70% platinum and 30% iron, core made of 99.999 (5N) iron, and 99.9999 (6N) copper coils

Internal impedance: 5.5ohms (SL version: 3 ohms)

Output voltage: 0.3mV (5.0cm/sec., zero to peak, 45 degrees) (SL version: 0.15mV)

Cartridge weight (without stylus cover): 13.5g

Compliance: Approx. 12×10^{-6} cm/dyne at 100Hz

Recommended tracking force: 1.65 - 1.8g

Recommended load direct into non-inverting RIAA equalizer amplifier or head-amplifier: 100ohms - 47kohms (determine best impedance value by listening)

Recommended load via step-up transformer: 4 - 10ohms (not more than 10ohms) (step-up transformer's output must be connected to 47kohm MM-level RIAA input)

Model: SKALA

Skala marks Lyra's brand-new 5th-generation cartridge design, and is a unique multi-section multi-material structure which combines a dense and rigid vertical metal vertebrae pillar with a lightweight horizontal polymer base which tensions the vertebrae pillar against the tonearm headshell. The multi-material structure enables the amount of conductive metal to be reduced drastically, which suppresses the formation of eddy currents which would otherwise rob the sound of dynamics and resolution. Because the use of metal is confined to a limited area where strength is truly important, it has been possible to make the Skala of dense, phenomenally strong structural materials while keeping the total weight reasonable. The Skala's cantilever system is mounted directly to the rigid vertical vertebrae pillar, which improves the ability to reproduce big dynamics simultaneously with fine musical detail, while the vertical vertebrae pillar in turn makes direct contact with the tonearm headshell along a narrow patch. The small size of the contact patch creates a focused, high-pressure area which increases the efficiency of energy transfer away from the signal-generating coils. In combination with the multi-section multi-material structure of the Skala, this gives excellent control over the vibration and resonances that are inevitably generated when the stylus tracks an LP.

Specifications for Lyra Skala:

Designer: Jonathan Carr

Builder: Yoshinori Mishima

Type: Moving Coil

Frequency range: 10 Hz - 50 kHz

Channel separation: 35 dB or better at 1 kHz

Cantilever system: Solid boron rod with Lyra original, natural diamond line-contact stylus (3 x 70 micrometers)

Internal impedance: 5.5 ohms

Output voltage: 0.5 mV (5.0 cm/sec., zero to peak, 45 degrees)

Cartridge weight (without stylus cover): 9 grams

Compliance: Approx. 12 x 10 cm/dyne at 100 Hz

Recommended tracking force: 1.65 - 1.75 grams

Recommended load directly into MC RIAA phono input: 100 ohms - 47 kohms (determine preferred position by listening)

Recommended step-up transformer: Dedicated design for use with MC cartridges with impedance of less than 10 ohms like f.ex. the Lyra Erodion.

Recommended tonearm: High-quality pivoted or linear (tangential) tone arm with tight tolerance bearing(s) and adjustable anti-skating force.