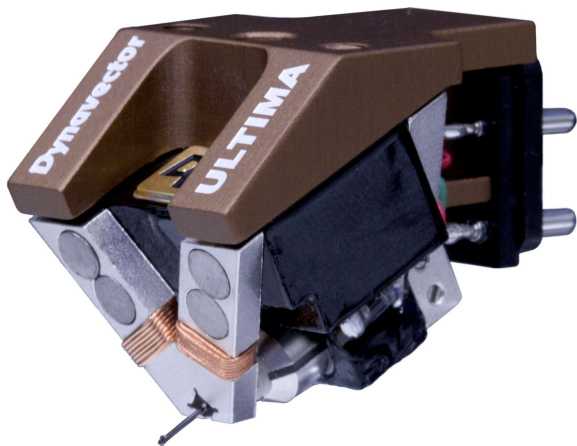


Dynavector Moving Coil Cartridge XV Ultima

■ Overview



The XV series is an accumulation of engineering excellence and refinement. The XV Ultima is the ultimate expression of Dynavector's XV cartridge series and the direct successor to the XV-1t. It retains the design that has defined the line since the original DRT XV-1 (1999) and XV-1s: eight Alnico magnets providing a stable magnetic field, a V-shaped front yoke that holds the magnets and makes the nude cartridge easier to handle, a square-shaped aperture in the yoke, a four-part magnetic equalizer to capture the magnetic field accurately, and Dynavector's patented Flux Damping, which counters flux fluctuation during playback to stabilise the magnetic field and reduce distortion in the generated signal. The body is Urushi-lacquered over precision-machined, heat-treated bamboo, selected for its acoustic properties and the stability it provides to the magnetic assembly.

The Ultima is further defined by two distinctive elements. The coil bobbin is manufactured from research lab-grade ultra-high-purity iron, maximising purity for low distortion and ideal response to magnetic changes. The bobbin is then precision-cut into a cross-shaped armature and wound with ultra-fine pure copper wire. Both the cross shape and the fine winding reduce the cartridge's moving mass for accurate tracking and faithful reproduction of fine groove detail.

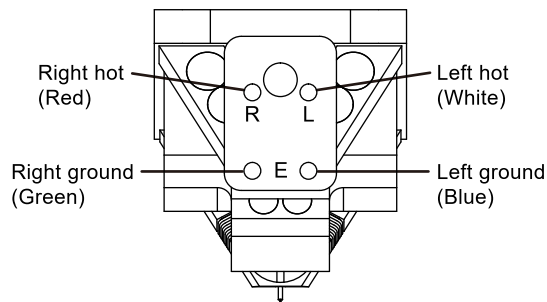
The latest improvement in the Ultima is the application of Dynavector's Special Annealing Process to the front and back yokes, the magnetic equalizer, and all eight magnets. The process addresses the crystal-structure distortion caused by machining, which reduces magnetic permeability and cannot be fully reversed by conventional annealing. Calibrated to each component and drawing on the tradition of Japanese swordsmithing, it restores pure iron to its full magnetic potential.

The XV series has long been known for natural timbre, stable imaging, and an unforced sense of presence. The Ultima takes these qualities to their fullest expression, with exceptional resolution, smooth extension at the frequency extremes, and a deeply layered soundstage — instruments and voices clearly placed and rendered with warmth and

■ Connection

Connect the lead wires from the headshell to each pin as shown below. The terminal pin diameter is 1.2mm. Please note that 1.0mm connectors will not fit.

Forcefully inserted connectors with the wrong diameter may damage the terminal pin or the lead wire. Please also avoid soldering when wiring. This may cause internal wire damage.



Terminals

■ Mounting to the Headshell

Please use the enclosed M2.5mm screws to mount the cartridge. The overhang should be aligned according to the instruction manual of the tonearm.

■ Loading Impedance

The XV Ultima's internal impedance is much higher than that of conventional cartridges. Please ensure that your phono stage is configured with appropriate loading settings to achieve the best performance. Many existing MC step-up transformers, head amplifiers, and phono stages may have been optimised for cartridges with more conventional impedance characteristics, even if this is not explicitly specified. We recommend experimenting with higher loading impedance settings if the high frequencies sound restrained or lacking in openness.

■ Tracking Force

The appropriate tracking force range is 1.8g - 2.2g in a room temperature of 20°C. If the room temperature is high, a slightly lighter tracking force is recommended. If the room temperature is low, a slightly heavier tracking force is recommended.

■ Stylus Guard

Always attach the stylus guard from the front side as shown above. Attaching the guard from underneath may cause the cantilever to bend or break.



■ Stylus Cleaning

Please keep your records clean. Dust can cause record wear and sonic distortion. We strongly advise that you maintain and handle the stylus with caution as it is one of the most delicate parts of the cartridge that can affect its performance. Frequently clean the stylus with the brush supplied. Brush only from back to front of the stylus to avoid any damage to the stylus assembly.

We recommend the use of a good quality commercial stylus cleaner. Strong alcohol and chemical fluids are not recommended for use with Dynavector cartridges. Make sure that the stylus is completely dry before use.

Important: Always use cleaning liquids sparingly, taking particular care that the liquid does not contact any other part of the cartridge other than the stylus tip. Take extra caution not to get the fluid on the damper rubber. The rubber may deteriorate and affect the cartridge's performance.

■ Stylus Replacement and Warranty

The cartridge is covered by a one-year warranty from the date of purchase against electrical and mechanical defects, provided that the instructions have been followed and the warranty form has been completed.

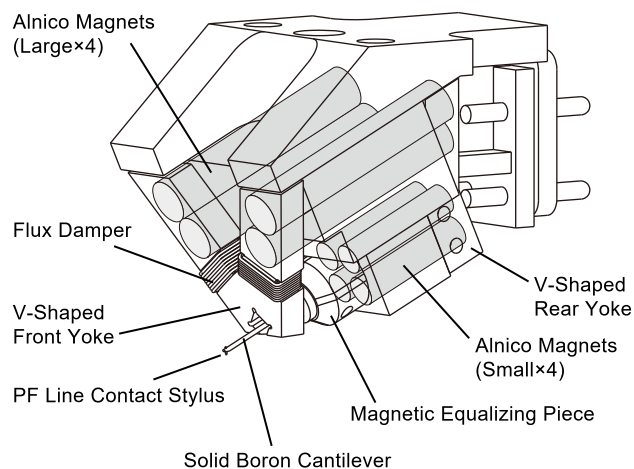
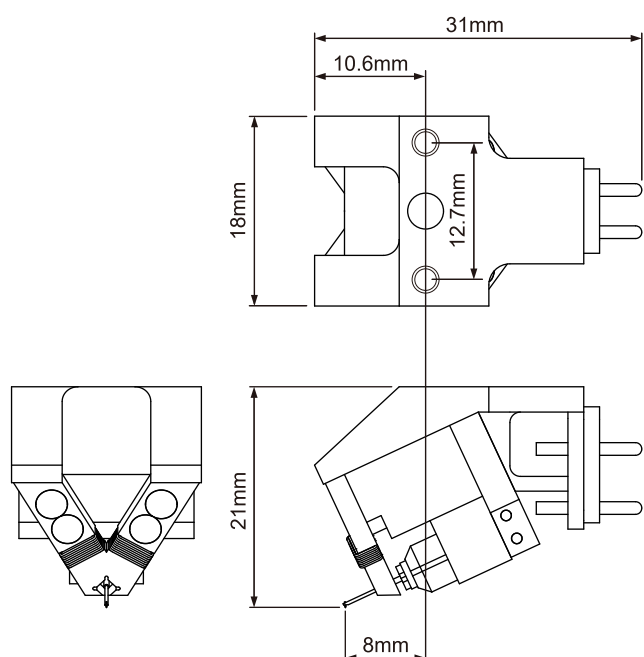
The warranty does not cover stylus wear or damage to the stylus assembly caused by mishandling or abuse. In the event of a defect, please carefully pack the cartridge in its case, together with the warranty card and / or receipt, and return it to your retailer.

Dynavector operate an exchange scheme for the XV Ultima which entails rebuilding the cartridge. The rebuild includes replacing all moving parts, ie the cantilever and stylus assembly as well as the coils and suspension. This allows replacement stylus cost to be minimised.

To qualify for an exchange please return the cartridge to your dealer or national distributor.

■ Specifications

Type	: Low Output MC Cartridge, Alnico Magnets and Flux Damper
Output voltage	: 0.32 mV (at 1 KHz, 5cm/sec)
Frequency response	: 20 - 20,000 Hz (±1dB)
Channel balance	: 1.0 dB (at 1 KHz)
Channel separation	: 30 dB (at 1 KHz)
Compliance	: 10 mm/N
Impedance	: 24 ohms
Stylus tip	: PF Line contact shape stylus radius 7 x 30 micron
Cantilever	: 6mm length solid boron
Tracking force	: 1.8 - 2.2 g
Recommended load impedance	: > 75 ohms
Weight	: 12.0 g



This product can be recycled. Products bearing this symbol must NOT be thrown away with normal household waste. At the end of the product's life, take it to a collection point designated for recycling of electrical and electronic devices. Find out more about return and collection points through your local authority.

The European Waste Electrical and Electronic Equipment (WEEE) Directive was implemented to dramatically reduce the amount of waste going to landfills, thereby reducing the environmental impact on the planet and on human health. Please act responsibly by recycling used products. If this product is still useable, consider giving it away or selling it.

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