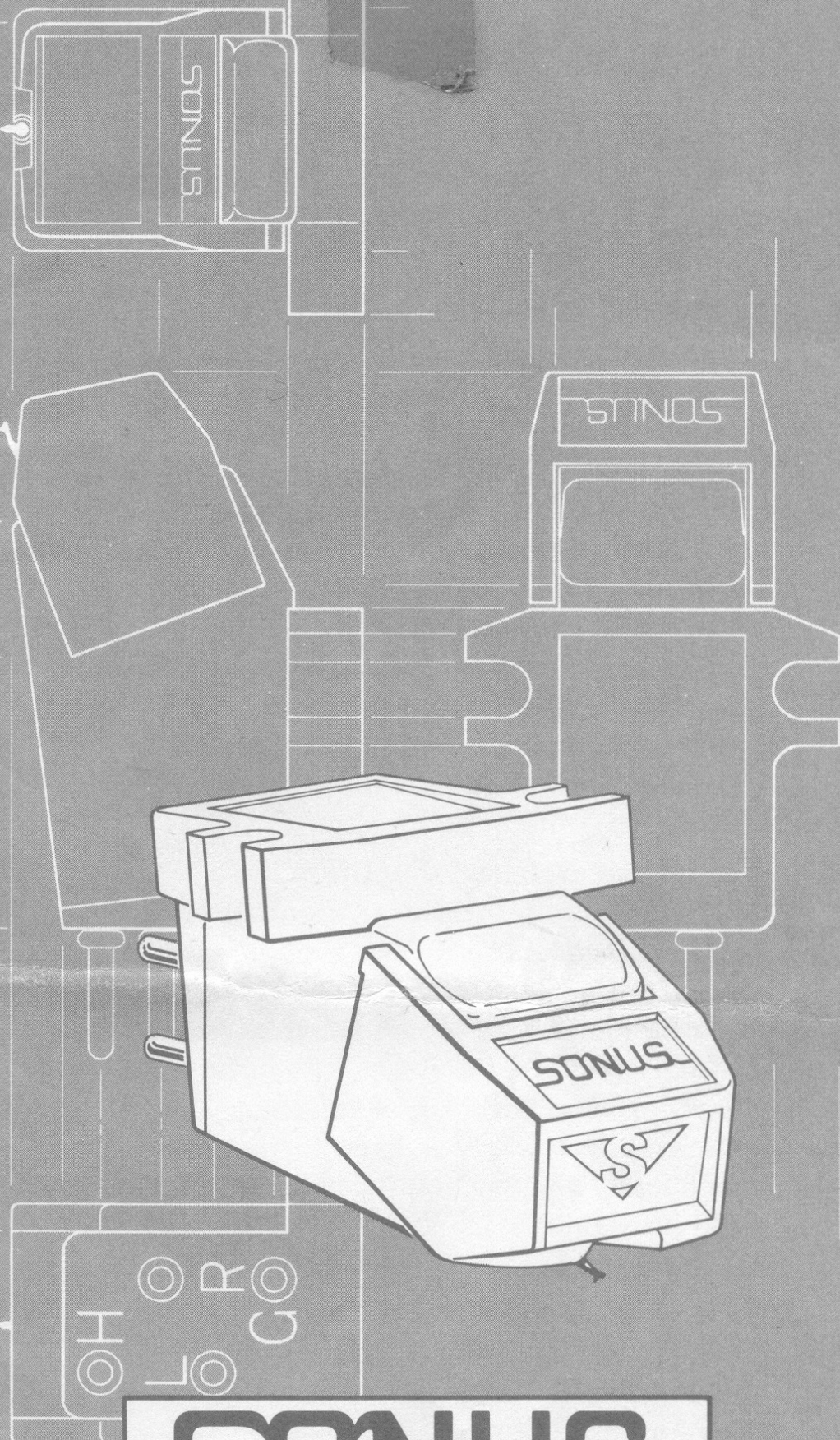


SONUS

27 Sugar Hollow Rd., Danbury, Ct. 06810



SONUS

HIGH DEFINITION
PHONO CARTRIDGES

SONUS

Contrary to popular belief there remains a large potential for improvement in the reproduction available from the best phonograph records. Although in many hi-fidelity systems the limiting item lies in another part of the reproduction chain, in a surprisingly large number of systems, the phonograph cartridge itself is the principal limiting factor. The *SONUS* cartridge has been conceived as the means to narrow the gap between accepted standards of fidelity and those potentially attainable from today's best records.

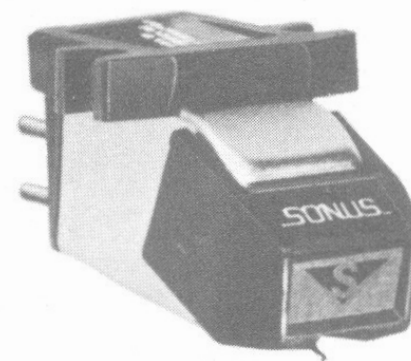
It should be explained that the *SONUS* design does not represent a "break-through," nor does it make use of any revolutionary means of transduction. Rather, it is the result of many years of refinement of techniques and materials, and a refusal to compromise for the sake of expediency or commercialism where a distinct, if not immediately obvious, improvement in quality could be obtained.

From the beginning, the *SONUS* cartridge design was conceived as a whole, for it was realized that the improvement in a single design parameter does not necessarily result in an improved product.

Our design philosophy is to use the latest refinements in material and techniques to convert the motion of the record groove into a precise electrical replica, thus assuring the highest possible sonic accuracy and definition.

In sum, we have a transducer system characterized by reproduction of exceptional accuracy, clarity and definition, and capable of perfect tracking and tracing at very low stylus forces.

BLUE LABEL CARTRIDGE



This unit is fitted with a micro-miniature "PATHEMAX" diamond tip, ground and polished to a precise contour in order to trace extremely short wave lengths (high frequencies), while maintaining a relatively large groove contact area, thus minimizing deformation or penetration of the record material. Although originally developed for use with discrete quadraphonic records, these characteristics considerably improve groove tracing in general, with a consequent reduction in distortion in all forms of micro groove records, particularly in the inner grooves.

The stylus mounting, although very small, has extremely high mechanical strength and precise orientation. This diamond, combined with a moving system of exceptional lightness and strength definitely represents a "state of the art" system which we feel is optimum for all types of recording.

Although designed principally for the best possible reproduction of conventional stereo records, the extended frequency range of the Blue Label cartridge makes it highly suitable for use with CD4 type recordings. Indeed, many enthusiastic users have reported CD4 quadraphonic reproduction superior to that obtained using any other cartridge.

SPECIFICATIONS

Voltage output at 1kHz per cm/sec.	.....	.8 ± 2 db
Frequency Response		
		± 1½ db 5Hz to 20kHz ± 6 db 20kHz to 45kHz
Compliance	.....	50 cms/dyne x 10 ⁻⁶
Stylus Force Range	.....	¾ to 1¼ grams
Stylus Tip Radii	.....	.0030" x .0003" (Pathemax)
Channel Balance	.....	± 2 db
Nominal Channel Separation at 1kHz	.....	30 db
		Over entire range 25 db
Recommended load impedance per channel		
		47 k ohms in parallel with not more than 400 picofarads.
		However, when intended for use with CD4 type records, capacitance should not exceed 250 picofarads.
Inductance	.....	150mH/channel nominal
Resistance	.....	300 ohms/channel nominal
Total Cartridge Weight	.....	5½ grams

The SILVER LABEL

cartridges were designed specifically to enable a wider group of discerning audiophiles to enjoy the unique definition and accuracy of the SONUS cartridge.

The SONUS Blue, Red and Green Label cartridges are highly compliant, lightly damped devices that take a great deal of time and enormous care to build. Consequently, they are costly and are also somewhat critical in their requirements for associated tone arms.

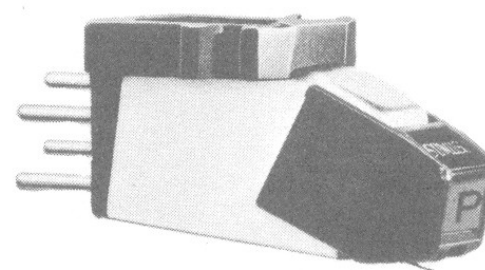
We think the Silver Label cartridges are a very attractive compromise. While retaining nearly all of the sonic qualities of our other cartridges, they offer a much greater degree of compatibility with other components and at a considerable reduction in cost to boot.

These devices may be used in a wide variety of modern, high quality record changers or tone arms and for a modest investment can effect a dramatic improvement in the overall quality of reproduction.



SILVER LABEL CARTRIDGES

“P” and “E”



Fitted with a micro-miniature “Pathemax” stylus, model “P” responds to frequencies up to 50kHz and is highly suitable for quadrasonic reproduction of CD4 type recordings. Unlike many other CD4 cartridges, however, no compromise has been made to attain this extended response. In fact, this particular stylus was selected for its superior tracing properties with conventional stereo recordings, making it uniquely compatible with all forms of micro-groove discs.

Model “E” enjoys the benefits (and cost savings) of a conventional elliptical (bi-radial) stylus tip. Like the “P” model, it has a moving system of ultra low mass and high compliance and shares the same precise geometry and exceptionally short mechanical conduction path providing the typical definition and realism of its companions in the SONUS line.

SPECIFICATIONS SILVER LABEL “P” and “E”

Voltage output at 1kHz per cm/sec. 1 mv \pm 2 db
Frequency Response

+2 -1 db 5 Hz to 20kHz (\pm 6 db 20kHz to 45kHz “P” only)

Compliance 30 cms/dyne x 10⁻⁶

Stylus Force Range $\frac{3}{4}$ to 1 $\frac{1}{2}$ grams

Stylus Tip Radii0030” x .0003” (Pathemax)

Stylus Tip Radii0007” x .0003” (Elliptical)

Channel Balance \pm 2 db

Nominal Channel Separation at 1kHz 30 db
Over entire range 25 db

Recommended load impedance per channel

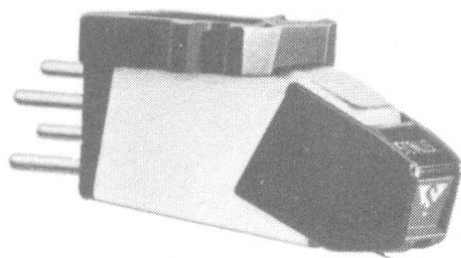
47 k ohms in parallel with not more than 400 picofarads.
However, when using the Silver Label “P” with CD4 type records, capacitance should not exceed 250 picofarads.

Inductance 150mH/channel nominal

Resistance 300 ohms/channel nominal

Total Cartridge Weight 5 $\frac{1}{2}$ grams

RED LABEL CARTRIDGE

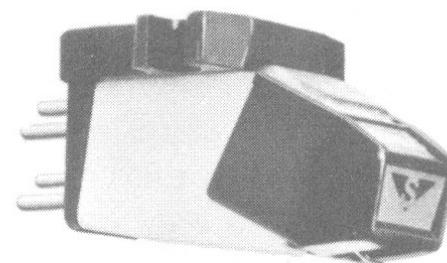


This unit has a conventional elliptical (bi-radial) diamond tip. Except where an extended frequency range is essential, this tip provides most of the precise tracing virtues of the Blue Label, although the stylus groove bearing area is considerably smaller. The stylus mounting and general characteristics share the virtues of the Blue Label cartridge and again combine high mechanical strength and precise orientation in a moving system of exceptional lightness and strength.

SPECIFICATIONS

Voltage output at 1kHz per cm/sec.	.....	.8 ± 2 db
Frequency Response	.....	+2 -1½ db 5Hz to 20kHz
Compliance	.....	50 cms/dyne x 10 ⁻⁶
Stylus Force Range	.....	¾ to 1¼ grams
Stylus Tip Radii	.....	.0007" x .0003" (Elliptical)
Channel Balance	.....	± 2 db
Nominal Channel Separation at 1kHz	.....	30 db
		Over entire range 25 db
Recommended load impedance per channel		
		47 k ohms in parallel with not more than 400 picofarads.
Inductance	.....	150mH/channel nominal
Resistance	.....	300 ohms/channel nominal
Total Cartridge Weight	.....	5½ grams

GREEN LABEL CARTRIDGE



This unit is fitted with a micro-miniature spherical tip for general purpose use, where minimum stylus and record wear is desired, under day to day conditions such as transcription or radio station work. It is also optimum for records compensated for inner groove distortion. It, too, shares the mechanical virtues of exceptional lightness and strength with the other cartridges in this series, and is capable of truly superb reproduction.

SPECIFICATIONS

Voltage output at 1kHz per cm/sec.	.....	.8 ± 2 db
Frequency Response	.....	± 2 db 5Hz to 20kHz
Compliance	.....	50 cms/dyne x 10 ⁻⁶
Stylus Force Range	.....	¾ to 1¼ grams
Stylus Tip Radius	.....	.0006" (Spherical)
Channel Balance	.....	± 2 db
Nominal Channel Separation at 1kHz	.....	30 db
		Over entire range 20 db
Recommended load impedance per channel		
		47 k ohms in parallel with not more than 400 picofarads.
Inductance	.....	150mH/channel nominal
Resistance	.....	300 ohms/channel nominal
Total Cartridge Weight	.....	5½ grams

YOUR SONUS DEALER

Our Customer Service Department is ready to answer any questions concerning the use and operation of our products and welcomes your inquiry.
Call or write:

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