

The background of the entire page is a dark, textured field from which numerous bright, cyan-colored light beams radiate outwards. These beams vary in thickness and intensity, creating a starburst or sunburst effect that fills the frame. The beams appear to originate from a central point just above the text.

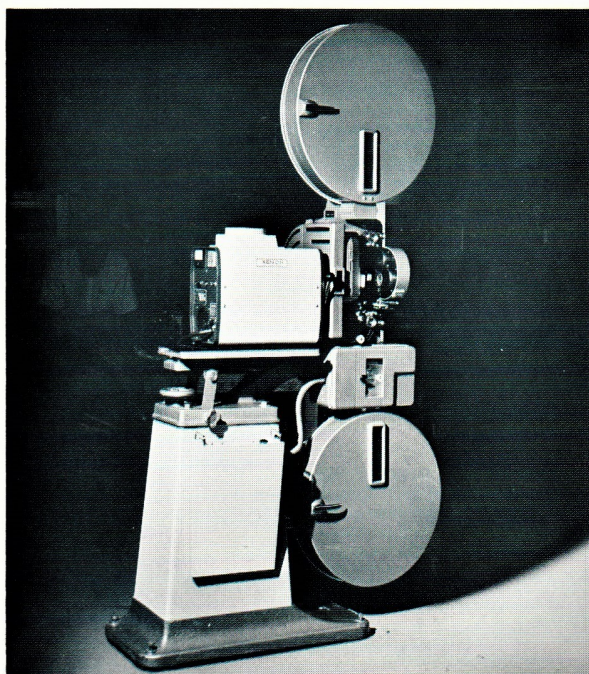
XENON

Lamphouse Systems
for motion picture
and slide projectors

XENON

lamphouse systems represent the highest state of the art in the area of efficient light transference. The Xenon lamphouses described herein have been specifically designed to fit the needs of the motion picture theatre and audio visual fields.

XENON lamphouses for 35/70mm projectors



All models are specifically designed for 35/70mm projection and combine a unique ORC aspheric collector (mirror) with an ozone-free xenon bulb to produce a screen brightness at least double that of carbon arc or other xenon systems. These lamphouses offer minimum cost installation, ease of alignment, metal optics, and are adaptable to automatic equipment. Each lamphouse contains an ammeter, hour meter, and dichroic (heat reflecting) filter. Each system is supplied with a solid state current regulated power supply, with continuously adjustable current output to obtain optimum screen brightness. A standard 9-inch optical centerline and an internal cooling system is also furnished with all models.

Model 1000-35

This lamphouse is specifically designed for mini-theatres. It is the only available system with an integral power supply and no interconnecting cables; thus installation is extremely easy and economical. Operates from 115V, 15 amp service. *Recommended for screen sizes to 25 feet; up to 28 feet with X-1600 xenon bulb.**

Models 1600-35 and 2500-35

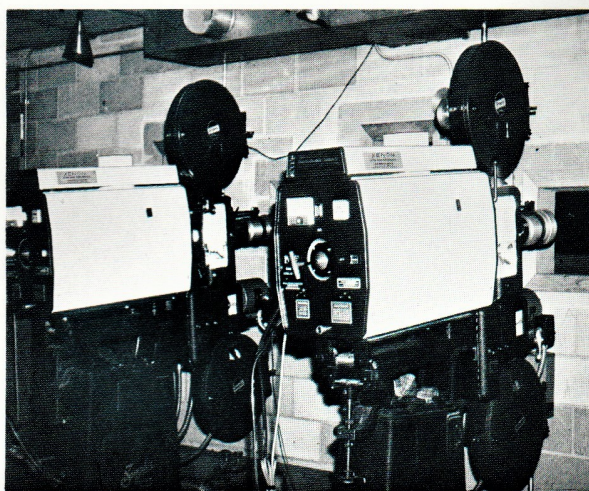
The Model 1600 lamphouse is furnished with RPS-X16 power supply and an interconnecting plug-in cable. *Recommended for screen sizes to 32 feet.**

The Model 2500 is similar to the 1600 except that it utilizes the RPS-X25 power supply and is *recommended for screen sizes to 42 feet.** The power supplies used with both models are compact enough to permit location near projector. Each model operates from 115V or 208/230V service.

Models 4000-35 and 6000-35

The Model 4000 lamphouse is furnished with RPS-X40 power supply. *Recommended for screen sizes to 58 feet.**

The Model 6000 is *recommended for drive-in theatres*. As the highest performance drive-in theatre system on the market, it offers *double* the screen brightness of any other available system. This model is furnished with RPS-X60 power supply. Both the 4000 and 6000 operate from 208/230V, three-phase service.



*The screen sizes recommended assume a 1.5 screen gain and f/1.7 projection lens to assure SMPTE standards.

XENON lamphouses for 16mm projectors



These lamphouses were specifically designed for 16mm projection. They combine the unique attributes of the ORC aspheric collector (mirror) with an ozone-free xenon bulb to produce large screen viewing with unsurpassed screen brightness (at least three times brighter) and uniformity. Adaptable to a variety of 16mm projectors, these lamphouses offer a surprisingly low-cost operation, brilliantly natural colors, low-film heating, self-contained lamp cooling system and portability. *Recommended highly for the AV market when optimum performance is a must.*

Model 1000-16

This lamphouse, with its built-in power supply, operates from a standard 115V wall plug. Installation is thus extremely easy and economical because of the elimination of all interconnecting cables. Provides 4,000* lumens open aperture.

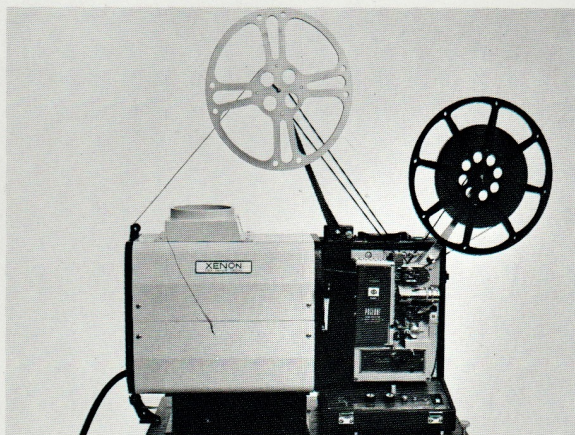
Models 1600-16 and 2500-16

The Model 1600 lamphouse is furnished with RPS-X16 power supply and all interconnecting power cables. Provides 6,000* lumens open aperture.

The Model 2500 is similar to the 1600 except for the use of RPS-X25 power supply, and it provides 9,000* lumens open aperture. This is the *highest-power lamphouse recommended for 16mm projectors*. At this level, additional film gate cooling may be required, depending upon model/manufacturer of the 16mm projector used. Both the Model 1600 and 2500 operate from 115V, 208/230 service.

*16mm open aperture lumens are based on f/1.6 projector lens.

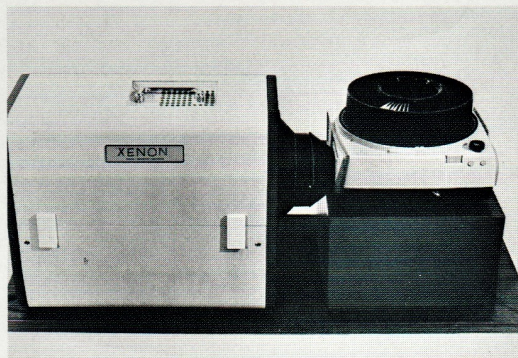
XENON complete 16mm projection systems



ORC complete 16mm projection systems provide screen brightness up to eight times that offered by normal 1,200 watt tungsten bulb systems and twice that offered by the Marc 300. Our use of the ozone-free xenon bulb, with its 5600K color temperatures, creates a screen image of brilliant whites and natural color, along with increased brightness for optimum, large-screen viewing hitherto obtainable only with 35mm systems.

The Model AV-126-1000 system utilizes the Model 1000 lamphouse in combination with the Kodak Pageant Model AV-126TR 16mm projector, 12-watt sound amplifier and a f/1.6 Ektanar lens. Also available with 25-watt amplifier.

XENON 35mm slide projection systems



The ORC complete xenon 35mm slide projection systems offer the brightest possible picture in brilliant natural colors, with the minimum of slide heating. To obtain such optimum viewing, the system uses an aspheric collector, a high-efficiency dichroic (heat reflecting) filter with an ozone-free xenon bulb.

The Model AV34-1000 utilizes the Model 1000 lamphouse in combination with the Kodak Ektagraphic Model AV341 35mm slide projector. The Model AV96-1000 combines the Model 1000 lamphouse with a Kodak random access projector. Both systems produce 4,000 lumens through a 35mm slide. Larger wattage systems are also available to provide up to 7,000 lumens. Average bulb life is over 2,000 hours for both systems.

Bulbs and Accessories

All ORC xenon bulbs are U.S.-manufactured to rigid specifications. Each bulb is shipped in a safety container also used as a relamping tool. All bulbs are ozone-free, with a warranty life ranging from 1,000 to 1,500 hours, depending upon type. Ampere ratings vary from 15 to 150.

A wide choice of accessories to match most needs is available to users of ORC 35mm and 16mm systems. They range from remote shutters to automation packages, from conversion kits to alignment fixtures. Detailed information on this equipment is obtainable direct from the factory or your local dealer.

Radiation transfer optics - heart of the ORC XENON systems

The design of highly efficient radiation transfer systems originated in the early sixties because of the U.S. need to simulate solar radiation as it would affect space vehicles. The resultant multi-million dollar program achieved success only after an extensive period of trial and error involving, among other efforts, the development of mathematical models of complex radiation sources, highly sophisticated computerization techniques related to optical systems and finally, a brand new look at the interaction between energy sources and optics.

These new techniques have created the heart of the ORC Xenon lamphouse — a

complex aspheric mirror comprised of second order coordinates, which optimizes the light transference for picture projection.

The technical staff of Optical Radiation Corporation was instrumental in developing these unusual tools and is part of a very select group of radiation technology experts. For the past few years, this staff has applied this new technology with outstanding success to the requirements of not only picture projection, but to such varied fields as advertising, military/paramilitary, and graphic arts/radiation processing.

For further information, contact your local dealer or write:

Optical Radiation Corporation

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