

THE Viong ELECTRIC CORPORATION

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THE MIGHTY MITE will project the maximum amount of light 16MM film can withstand. Screen illumination is approximately eight times the light obtained from incandescent sources and at least twice the amount obtained from the newer, lower powered, enclosed arc sources.

THE MIGHTY MITE IS CONVENIENT TO INSTALL (utilizing adapter kits, if necessary) on all 16mm projectors normally requiring carbon arc light sources and some projectors equipped with incandescent light sources. After the Mighty Mite has been installed, adjusted and properly focused, the projectionist need only press a switch to obtain a consistent repeatable flood of projected light.

THERE ARE NO MOVING PARTS to wear out and the reflector will not deteriorate due to dirt and soot; a common maintenance problem with carbon arc light sources. The operational cost per hour of a Xenon light source is approximately the same as that of a carbon arc light source projecting the same amount of light.

LAMPHOUSE CONTAINS internal interlock safety switch to disconnect power in the lamphouse if access door is removed; igniter designed with a protective device to eliminate sound system interference and provide correct starting voltage; internal exhaust blower; a special Tuf-Cold interference coated reflector to reduce heat at the aperture; a dowser that can be operated from either side

of lamphouse; power and ignition switches; a DC ammeter to indicate bulb operating current; a meter to record hours of bulb operation; and reflector focusing controls.

TYPE 80,000

LIGHT SOURCE - The Xenon bulb is a quartz envelope containing two tungsten electrodes in a pressurized Xenon gas atmosphere. The bulb produces a steady pure white light with daylight color quality (color temperature 5800° Kelvin) resulting in excellent rendition of both black and white and color film. The bulb is guaranteed on a prorated basis for 1500 hours with a life expectancy of over 2000 hours.

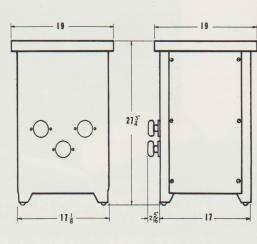
WE RECOMMEND the lamphouse be vented to outside atmosphere to exhaust the Ozone and heat that is generated by all Xenon bulbs. For installations where outside venting is not possible, a Strong type 80949 Ozone Filter is available as an accessory and is easily attached to the vent stack of the lamphouse. The filtered air is exhausted into the projection booth relatively pure.

TWO POWER SUPPLY MODELS are offered for use with the Mighty Mite lamp; one for single phase, and one for three phase AC input service. Both are designed with a heavy duty transformer and a silicon diode rectifier element to provide correct DC voltage and amperage for optimum Xenon bulb operation. The three phase silicon rectifying element is fan cooled and employs the "down-draft" principle, drawing the cooling air in from under the edge of the top cover, thus eliminating the possibility of foreign matter being drawn from the floor into the unit and blocking the flow of air. The single phase rectifier employs natural draft ventilation. Exterior 8-position tap switches are provided to adjust for the desired arc current. A utility outlet (5 ampere, 115v AC) for supplying power to the projector and/or amplifier is furnished on the single phase power supply.

Three Phase A.C. Transformer - Silicon Rectifier

POWER TO RECTIFIER	$\left\langle \right\rangle$
	1
OUTPUT TO LAMP	1
SHIPPING	1
WEIGHT)

450 WATT	900 WATT	1600 WATT
A.C. VOLTS 220	A.C. VOLTS 220	A.C. VOLTS 220
AMPS - 7.2 per phase	AMPS - 12.4 per phase	AMPS - 13.5 per phase
KVA 2.8	KVA 4.9	KVA 5.4
CYCLES 60	CYCLES 60	CYCLES 60
PHASE 3	PHASE 3	PHASE 3
D.C. VOLTS 18-24	D.C. VOLTS 20-26	D.C. VOLTS 24-28
D.C. AMPERES 20-28	D.C. AMPERES 40-48	D.C. AMPERES 60-70
265 POUNDS	270 POUNDS	280 POUNDS



X-60B Xenon Projection Systems

Catalog Numbers:

81098 X-60B System 150 Ampere 81097 X-60B System 100 Ampere

Strong X-60B Xenon projection systems are designed for use with large indoor screens and all drive-in screens. 100 ampere systems operating at 90 amperes project light equivalent to a 150 ampere 13.6 MM positive Carbon Arc lamphouse. 150 ampere systems project as much as 20% more light than a 13.6 Carbon Arc operating at 160 amperes.

All systems fit standard projector bases and are prewired for automation or manual operating mode.

A deep ellipsoidal interference coated TUFCOLD reflector with an increased light collection angle is the heart of X60B lamphouse optical systems. Research has proven that, above 3000 Watts, a metal/heat filter combination light collection system is not as efficient as a glass reflector. Strong's TUFCOLD reflector will pass between 15% and 20% more light through the aperture--without incurring film damage.

Xenon bulbs used in X-60B are built to strict specifications that provide the highest maintained light output throughout bulb life. Lumen output after 1000 hours of operation will be within 10% of lumens projected when the bulb was new.

X-60B Lamphouse Features



Net Weight - 125 lbs. Shipping Weight - 260 lbs. Packed Dimensions - 45" x 32" x 32"

Length - 3734" Width - 23-1/8" Height - 21-5/16"

- Meets SMPTE Standards for screen brightness on indoor screens up to 85 feet wide and drive-in screens up to 115 feet wide (150 ampere bulb); or indoor screens up to 75 feet wide and drive-in screens up to 100 feet wide (100 ampere bulb).
- Deep precision built ellipsoidal TUFCOLD glass reflector.
- Solid construction with all components mounted to heavy cast aluminum optical base.
- Magnetic arc stabilization.
- Built-in blower for cooling bulb and lamphouse (to supplement recommended exhaust system).
- DC ammeter and hour meter.
- Trouble free ignitor.
- Single control knob for focusing.
- Horizontal bulb mounting.
- Safety interlock switches on lamphouse door and blower system.

X-60B Power Supply Features



150 AMPERE

Net Weight - 385 lbs. Shipping Weight - 415 lbs. Packed Dimensions -

27" x 22" x 39"

Width - 24" Depth - 17" Height - 36"

- Heavy duty high reactance type transformers using class H (glass) insulation.
- Silicon diode rectifying elements.
- Operates from 230 volt, 60 hertz, 3 phase line.
- Over/under nominal line voltage variations corrected by four coarse line taps and three external tap changing dial switches with eight fine taps for each phase.
- Designed for continuous duty.
- Heavy duty cooling fan.
 Line control relay.

100 AMPERE



Net Weight - 240 lbs. Height - 19" Shipping Weight - 300 lbs. Depth - 30" Packed Dimensions - 36" x 18" x 24" Width - 131/4"

- Heavy duty high reactance type transformers using class H (glass) insulation.
- Silicon diode rectifying elements.
- Operates from 230 volt, 60 hertz, 3 phase line.
- Coarse and fine voltage adjustments for correcting over/ under nominal line voltage variations.
- Compact size, can be installed adjacent to or remote from projector base.
- Line control relay.

THROUGH THE YEARS -

Strong Electric's half a century of experience in developing lamphouse systems that provide dependable service and performance over the long haul is proven. Strong has always given consideration to quality of workmanship, ease of service, maintenance and maximum performance. Strong has been the leader in developing lamphouses to satisfy the changing requirements of motion picture film projection.

Strong developed the first acceptable arc controlled feed mechanism for low intensity carbons in 1924, progressing into arc controlled feed systems for high intensity carbons in the 1930's. Many Strong lamphouses built during that period are still in service.

Strong developed the first rotating positive carbon arc lamphouses equipped with automatic arc crater positioning to satisfy the post World War II increased screen light requirements resulting from changes in film format and increased screen widths. These lamphouses have been constantly changed and improved to meet new screen lumen requirements, culminating in Strong's present FUTURA arc lamphouses.

Strong began testing vertical mount Xenon bulbs in 1959 and has been testing bulbs continuously since, 20 minutes on, 5 minutes off. Strong introduced the first U.S. built Xenon projection lamphouse system in 1961.

Strong initiated development of Xenon bulbs for horizontal mounting by various bulb manufacturers and began testing these bulbs in 1966, followed by the introduction of the first horizontally mounted Xenon projection system in 1968.

NOW -

Strong has developed and introduced the ultimate in Xenon systems, the X60B model projecting more screen light -- with less aperture heat -- than any other system, and the Lume-X model, a smaller, more compact lamphouse projecting maximum light from lower wattage bulbs. These two new systems with a choice of bulb sizes meet the requirements of all theatre screens.

LUME-X AND X-60B SYSTEMS FOR INDOOR SCREENS

TO MEET SMPTE STANDARDS — CINEMASCOPE 1.5 GAIN — FI. 7 LENS

Lume-X	1000 watt bulb, screens 10 to 35 feet wide
Lume-X	1600 watt bulb, screens 25 to 45 feet wide
X-60B	100 Ampere bulb, screens 40 to 75 feet wide
X-60B	150 Ampere bulb, screens 55 to 85 feet wide

X-60B SYSTEMS FOR DRIVE-IN SCREENS

TO MEET SMPTE STANDARDS — CINEMASCOPE MATTE SCREEN, FI. 7 LENS

X-60B	100 Ampere bulb, screens 55 to 100 f	feet wide
X-60B	150 Ampere bulb, screens 75 to 115 f	feet wide

All Strong motion picture projection systems are available for demonstrations in theatres. Contact your theatre equipment dealer or write to the factory for details.

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