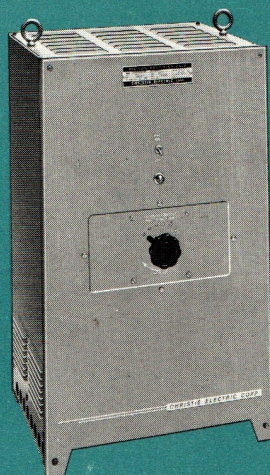
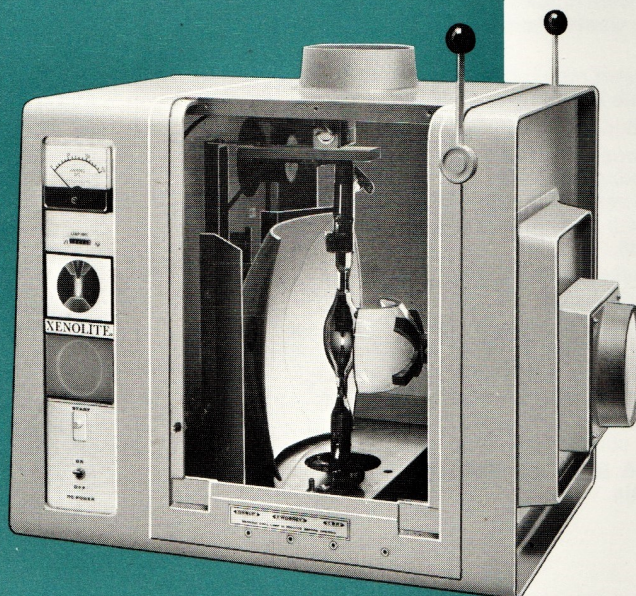
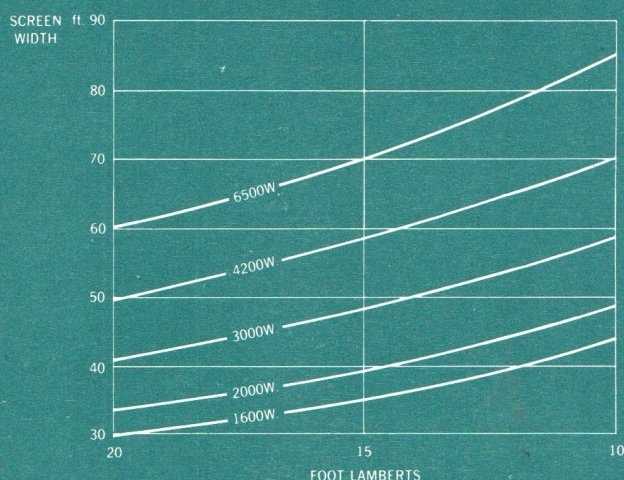


*Better Light with...*
**XENOLITE®**  
 ILLUMINATOR SYSTEMS

for XENON PROJECTION

BSG LAMPHOUSE  
& RECTIFIER POWER SUPPLY

- 1600 TO 6500 WATTS
- BRIGHTEST FIELD OF ILLUMINATION
- UP TO 80 FT. INDOOR SCREENS
- ALL SIZE DRIVE-INS
- 35/70MM QUICK CHANGE-OVER
- CAN BE COMPLETELY AUTOMATED


**INDOOR SCREEN BRIGHTNESS GUIDE**  
 Typical data based on 35mm Projector with 3-inch f1.9 lens, 50% shutter, screen gain of 1.2, and 2.35:1 aspect ratio.
**"BSG" SERIES**

- BSG LAMPHOUSE
- RECTIFIER POWER SUPPLY

**MAJOR COMPONENTS**

**XENON BULB** (See "XL" Bulletin) An extremely high brightness point source of light with tungsten electrodes fully enclosed in quartz. Almost indistinguishable from natural daylight — more brilliant colors, sharper images, greater depth of focus, no warm-up, clean and automatic unattended operation. Average life of 1000-2000 hours, typically twice as efficient as carbon arc.

**LAMPHOUSE** Designed optically, mechanically, and electrically for optimum performance of each size Xenon bulb. Provides brightest field of illumination per watt. Special focus control of bulb in conjunction with dual mirror system gives performance not attainable with other systems. Includes: igniter, various controls, meters and optics.

**IGNITER** (See "XE" Bulletin) Fully enclosed igniter is located in rear compartment of lamphouse, but close to bulb, to provide reliable starting together with maximum safety and accessibility. Connectable for manual or automatic operation.

**RECTIFIER POWER SUPPLY** (See "XE" Bulletin) Standard system includes separate matched Christie Class III XENOLITE silicon rectifier power supply which incorporates special characteristics for reliable bulb starting and extended bulb life.

**CHRISTIE**  
 ELECTRIC CORP.

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 PHONE (213) 750-1151 • TWX 910-321-3867

See other side for Features &amp; Data



## STANDARD FEATURES

**RATINGS:** From 1600 to 6500 watts, with up to 52,000 lumens output (35mm, open shutter) — for indoor screens up to 80 ft. wide and all size drive-ins. Approximately 20% more output with 70mm aperture.

**DICHROIC ELLIPTICAL PRIMARY MIRROR:** The CHRISTIECOTE dichroic "cold" mirror removes most of the undesirable infrared heat to produce a cooler beam; it also corrects the color balance to provide optimum color or black and white reproduction in theatres, studios and screening rooms.

**DICHROIC SPHERICAL SECONDARY:** Longer life with dichroic coating on secondary as well as primary mirror.

**MECHANICAL ALIGNMENT:** BSG Series Lamphouses fit all 35mm and 35/70mm projectors. (Height to optical center is 9 in. on BSG30 and BSG50, 14 in. on BSG65.) See Optional Extras for Alignment Tools.

**OPTICAL ADJUSTMENT:** Simple 3-axis positioning of bulb and adjustment of secondary mirror from outside the housing allows proper positioning of arc image. Arc viewing screen on side of lamphouse facilitates adjustments.

**METERS:** Ammeter allows current monitoring at lamphouse. Elapsed time meter runs only when bulb is on to give true bulb hours.

**DOWSER:** Simple lever operation from either side of lamphouse.

**COOLING:** Special cooling cone and baffles direct the airflow for proper bulb and mirror cooling. Includes fan failure protection. BSG50 and BSG65 lamphouses come with blower; each BSG30 requires an external blower with at least 700 cfm at 1.25 inch static pressure (see Optional Extras).

**REMOTE CONTROL:** Entire system, including rectifier power supply, can be turned on and off at lamphouse.

**STARTING CYCLE:** A high voltage r-f pulse (typically 40-50 kilovolts) from the igniter is applied to the bulb to strike the arc. Simultaneously with the igniter pulse, a d-c boost voltage of at least 2 to 4 times operating voltage is supplied by the rectifier power supply to quickly raise the cathode tip to operating temperature. This smoothly leads to steady d-c current flow of proper characteristics.

**RECTIFIER POWER SUPPLY & BUILT-IN IGNITER:** For further features see Christie "XE" Bulletin.

## XENOLITE DATA

APPLI- CATION	NOM. WATTS	LAMPHOUSE (incl. Igniter)		RECTIFIER POWER SUPPLY				ORDERING INFORMATION		
		Model No.	60 Hz. Input	Model No.	Class	60 Hz. Input		Basic System Model No.	Bulb Model No.	
						Volts	Phases			
REGULAR INDOOR THEATRE	1600	BSG30	115V. 1-ph.	XM1600-2S	III	208/230	1	BSG30-C16	CXL-1600	
	1600-2000			XM1600-2NS	II		1	BSG30-CB16	CXL-1600, CXL-2000K	
	1600-2000			1FXM1600-02S	III		3	BSG30-CC16	CXL-1600, CXL-2000K	
	2000-3000			1FXM2500-02S	III		3	BSG30-CC25	CXL-2000K, CXL-3000K	
DRIVE-IN & LARGE INDOOR	4200	BSG50		3FXM4200-02S	III		3	BSG50-CC42	CXL-4200K	
	6500	BSG65		3FXM6500-02S	III		3	BSG65-CC65	CXL-6500K	
STUDIO	1600-2000	BSG30V		1FX1600-02S	I		208/230	3	BSG30V-AA16	CXL-1600, CXL-2000K
	2000-3000			1FX2500-02S	I			3	BSG30V-AA25	CXL-2000K, CXL-3000K
	4200	BSG50V BSG65V		2FX6500-02S	I			3	BSG50V-AA65	CXL-4200K
	6500			2FX6500-02S	I			3	BSG65V-AA65	CXL-6500K
APPROXIMATE OVERALL DIMENSIONS:										
BSG30: 31½" L x 21" W x 25" H										
BSG50: 31½" L x 21" W x 32" H (with blower)										
BSG65: 31½" L x 21" W x 37" H (with blower)										
APPROXIMATE NET WEIGHT:										
BSG30: 135 lbs.										
BSG50: 170 lbs. (with blower)										
BSG65: 145 lbs. (with blower)										

## OPTIONAL EXTRAS

**35/70MM PROJECTION:** Optics and holder for quick change-over between 35 and 70mm film projection. No re-adjustment necessary.

**BULB ADAPTERS:** Extra bulb adapters available to allow operation with alternate bulb rating in lamphouse. (Different Rectifier Power Supply may be required.)

**BLOWER:** 700 cfm (at 1.25 inch) blower available for mounting atop the lamphouse or remotely (standard on BSG50 and BSG65 series).

**ALIGNMENT TOOLS:** Special Christie tools to facilitate mechanical alignment.

**WATT/VOLTMETER:** Available in lieu of ammeter; reads operating wattage when bulb is on, open circuit voltage prior to ignition. (Suffix "W".)

**RECTIFIER POWER SUPPLY:** Class I in lieu of Class III Rectifier Power Supply available for projection in studios and screening rooms requiring optimum presentation. Provides continuously adjustable screen brightness, smoother current, standby operation, insensitivity to line fluctuations and all controls at lamphouse (see table below).

## OTHER XENOLITE SYSTEMS

**"BF" SERIES:** Xenon Illuminator Systems for lower light requirements (35 or 70mm). Ideal for 16mm projection. Single, smaller elliptical mirror (fixed focus) — for bulb ratings between 450 and 3000 watts. CHRISTIECOTE dichroic "cold" mirror standard. (See "BF" Bulletin.)

**"UF" SERIES:** Xenon and Mercury Illuminator Systems for ratings between 200 and 3000 watts. Spherical mirror and adjustable optics for converging, collimated and diverging beam. (See "UF" Bulletin.)

**35MM SLIDES:** XENOLITE adaptation of Kodak Carousel Ektagaphic Slide Projector provides up to 4 times brighter screen. (See "CA" Bulletin.)

**3¼" x 4" SLIDES:** XENOLITE adaptation of lantern slide projector provides up to 7 times brighter screen. (See "PR" Bulletin.)

**16MM MOTION PICTURES:** XENOLITE adaptation of Kodak, Norelco, JAN and other projectors provides up to 6 times brighter screen. (See "PR" Bulletin.)

## OTHER XENON OR XENON-MERCURY APPLICATIONS

T.V. projection, slide projection, display systems, microfilm and optical readers, high speed photography, graphic arts, solar simulation, studio and stage lighting, searchlights and beacons, medical research and treatment, photosynthesis, photoanalytical electronics, photosensitive organics, general analytical research, further uses in chemistry, physics, agriculture and biology and other applications requiring daylight, infrared or ultra-violet light sources. (Specify aluminized in lieu of dichroic mirrors for other than daylight applications. Quartz optics also available.)