

Television



Lighting

for

Quartz

A TOTALLY NEW CONCEPT

BY **KLIEGL**





Founded in 1896, Kliegl Bros. quickly won world-wide fame with their many basic-patent developments in theatre lighting. Originally located in New York's theatre district and known as the headquarters for theatre lighting for almost seventy-five years, Kliegl Bros. moved, in 1963, to a custom-designed plant in Long Island City. Here, with some 40,000 square feet of space for their designers and skilled craftsmen, Kliegl continues to create lighting equipment that meets, in every respect, the world's highest standards of quality and performance.

**KLIEGL**

**First** IN LIGHTING DEVELOPMENTS  
FOR ALMOST SEVENTY-FIVE YEARS

- 1903—1st installation of complete lighting and control system in Metropolitan Opera House.
- 1905—1st with plugging boxes, floor pockets, stage plugs and connectors.
- 1911—1st arc Klieglight used in motion picture industry.
- 1915—1st disappearing footlight.
- 1922—1st with introduction of Linnebach projection in America.
- 1928—1st remote color changer spotlight.
- 1929—Introduction of Fresnel-lens into spotlight apparatus.
- 1932—1st incandescent Klieglight (ellipsoidal reflector spotlights).
- 1932—1st pin-hole down light for auditorium use.
- 1932—1st 500-watt wide-angle scenic projector.
- 1936—1st ceramic color risers on spotlight lenses.
- 1939—1st 2100 watt wide-angle scenic projector.
- 1943—Projection system for Waller anti-aircraft gunnery trainer.
- 1949—Dynabeam, 1st long throw 3000 watt ellipsoidal reflector Klieglight.
- 1951—1st rotary circuit selector system with a cold make and break.
- 1952—1st 3-phase electronic dimming system.
- 1954—Safpatch<sup>®</sup>, 1st cord-plug type cold patch circuit selector system.
- 1956—1st Oval-Beam lens Fresnel spotlights.
- 1958—1st SCR<sup>®</sup> Dimmer.
- 1964—1st complete line of equipment for lighting with quartz-halogen lamps.

That Kliegl Bros. designs and manufactures to only the very highest standards of both lighting excellence and control is, today, both an industry maxim and an extra assurance of "quality above all" . . . for those who insist upon Kliegl.



and now

# First Again

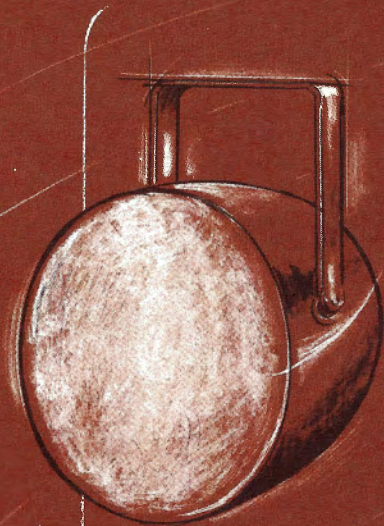
## WITH COMPLETE QUARTZ LIGHTING FOR TELEVISION

Television lighting, today, has the highest standards and the most critical values of any known lighting program. Originally concerned with only monochrome, the impact of color has multiplied, many times over, the serious sensitivity of such lighting factors as movement, angles, color temperature, fill and cross lighting, as well as depths, dimensions and the physical limitations of studios for indoor camera work and distances for outdoor camera coverage in color. For the perfectionist in TV lighting, there's a world of possibilities with the use of Kliegl quartz-halogen lamp equipment that were never available till now. Years of research and studio engineering use have gone into this new line of Kliegl equipment not only to perfect but also prove, with many, many actual studio installations, the major advantages of Kliegl Quartz TV Lighting.

From both the esthetic and technical viewpoint, Kliegl's quartz lighting, when compared with conventional tungsten filament equipped apparatus, offers numerous advantages. To cite only a few, this equipment, the only equipment designed for quartz, offers: greatly improved efficiencies • more compact instruments, easier to manipulate • virtually undiminished light output over entire lamp life • simplified relamping and adjustment • dimming curves identical with conventional tungsten lamps • no special or additional dimming system required • lamp types minimized for smaller, simplified inventory • less lamp storage space required **and**—lamps are mechanically stronger and more resistant to damage in handling.

After three years of intensive preparation and proving, it is our sincere and considered opinion that this new line of Kliegl equipment well deserves serious consideration and justifiably merits the Kliegl name and label that each unit carries.





TV QUARTZ SCOOPS

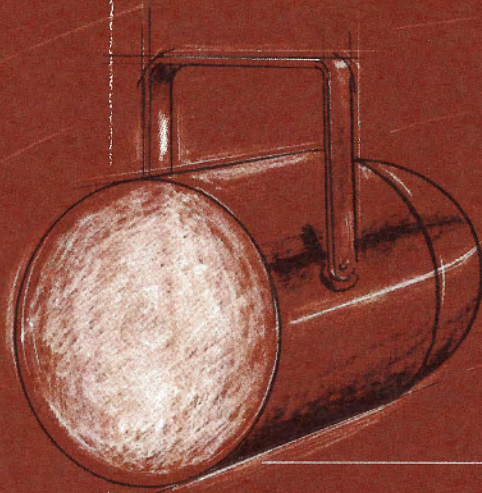
Catalog Number	Wattage	Dimensions	
		Length	Diameter
3450	500	12"	12"
3451	1,000	12"	16"

See Price List for lamps

## Quartz Scoops

all new

A highly successful line, especially effective for diffused base and fill lighting, as well as color washes. Delivers a wide range of precisely controlled intensities. Quick and easy to install, all are provided with pipe clamps, asbestos cable and grounded pin plug connectors. Twistlock connectors also available. Note: **These units deliver two to three times as much light as the conventional scoop.**



KLIEGL PUNCH SCOOP

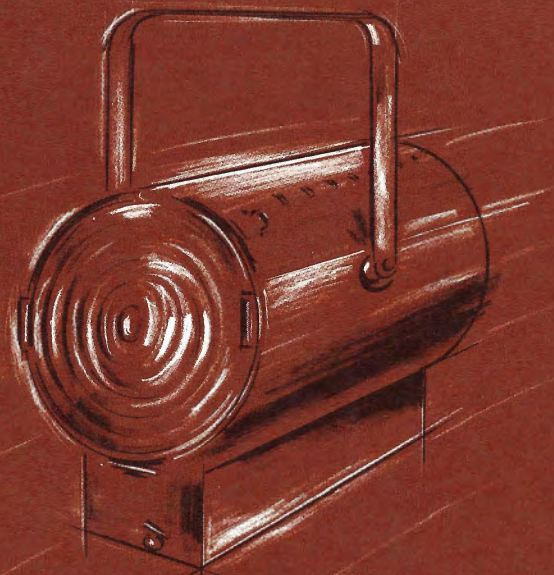
Catalog Number	Wattage	Dimensions	
		Length	Diameter
3440	1,000	15"	12"

See Price List for lamps

## Punch Scoops

A long range unit, especially effective in theatre-type studios when nested on balcony rail. Highly useful with 4 1/2" I.O. and in color television for filling in shadow areas with a soft light from longer-than-normal distances. All units with pipe clamp, 36" asbestos cable and attached grounded pin plug connector. Twistlock connectors also available.





# all new "XKE" Quartz Fresnel

Extra Kliegl Efficiency Fresnels, with an entirely new housing and reflector curvature, designed for maximum efficiency throughout the range most commonly used in the TV industry—namely, from semi- to full-flood position. In this area, they produce almost **double the light intensity** that the standard performance Quartz Fresnels do using the same Quartz lamps and **almost three times as much as standard incandescent Fresnels**. Focusable from maximum spread to minimum spot, the beam is extremely smooth, uniform and capable of being barn-doored.

"XKE" FRESNEL

Catalog Number	Lens	Wattage	Hours Life	PERFORMANCE @ 20 FT.				UNIT DIMENSIONS	
				Minimum Spot		Maximum Flood		Length	Diameter
				Spread	F.C.	Spread	F.C.		
3507	6 $\frac{3}{8}$ "	400	2000	4'	100	20'	25	12"	8 $\frac{1}{4}$ "
3507	6 $\frac{3}{8}$ "	650	100	4'	300	20'	50	12"	8 $\frac{1}{4}$ "
3525	8"	1000	150	2'	300	17'	100	13 $\frac{1}{4}$ "	13"
3525	8"	2000	150	2'	500	17'	175	13 $\frac{1}{4}$ "	13"
3527	12"	2000	150	1' 6"	600	17'	225	18"	18"

See Price List for lamps

# all new Quartz Fresnel (standard performance)

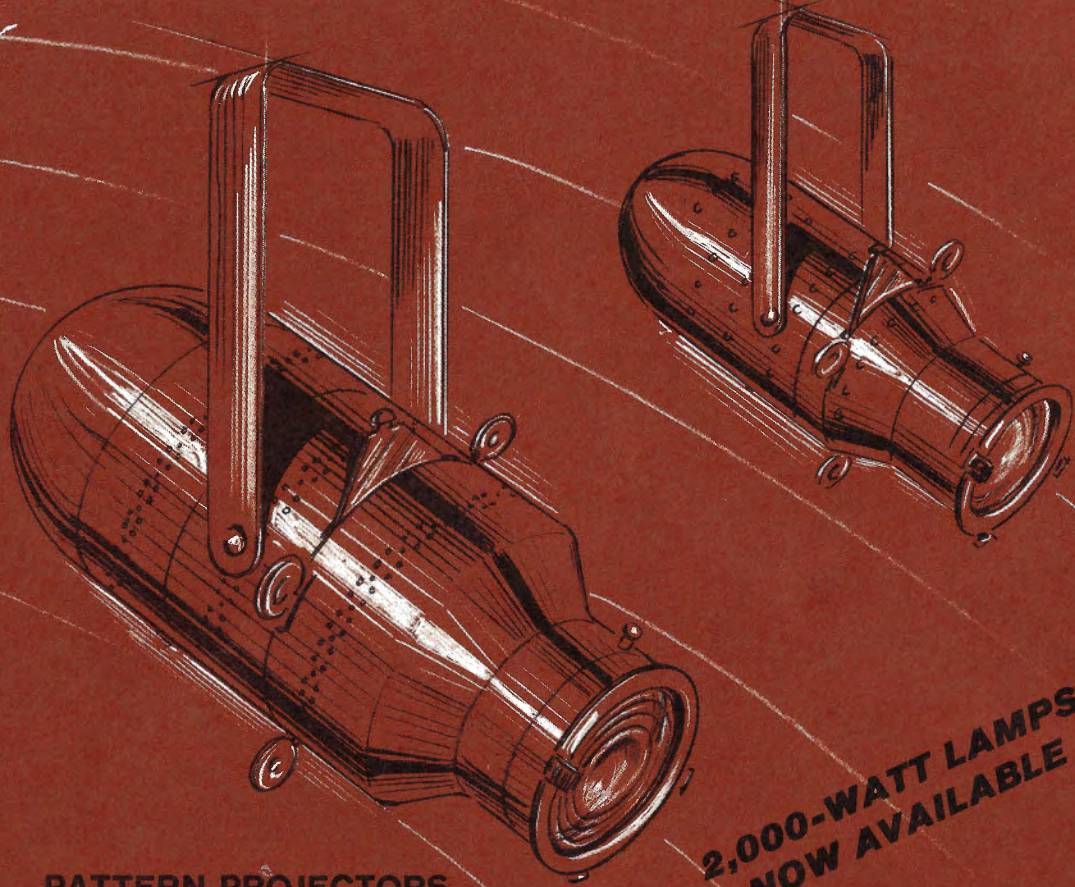
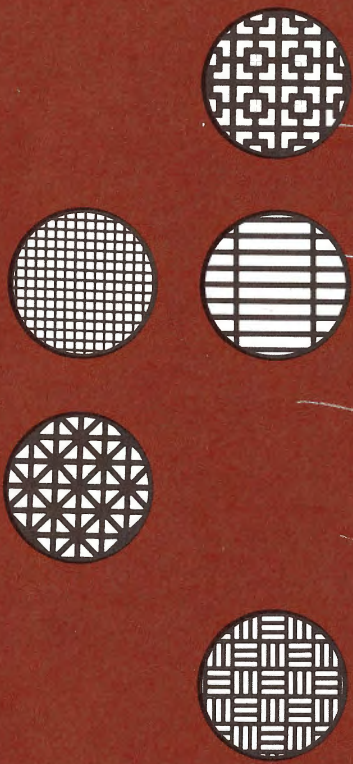
These units, with their newly designed housing and utilizing Quartz lamps, are much more efficient but possess the same spot-flood range as their former equivalent incandescent models. They provide general area illumination of high intensity, soft edge and uniform distribution with excellent barn door quality. Using the 1000 watt Quartz 150-hour life lamps, they produce almost double the intensity of the older incandescent style units that use the big 1000 watt G-40 200-hour life lamps. Using the 1000 watt Quartz, 2000-hour, long-life lamp, they produce approximately 90% intensity compared to the 1000 watt G-40 200-hour life lamp. All units on this page are equipped with pipe clamp, 36" cable and attached grounded pin plug connector. Twistlock connector available.

QUARTZ FRESNEL

Catalog Number	Lens	Wattage	Hours Life	PERFORMANCE @ 20 FT.				UNIT DIMENSIONS	
				Minimum Spot		Maximum Flood		Length	Diameter
				Spread	F.C.	Spread	F.C.		
3518	8"	1000	150	1' x 4'	500	15'	40	13 $\frac{1}{4}$ "	13"
3518	8"	2000	150	3 $\frac{1}{2}$ ' x 3 $\frac{1}{2}$ '	400	15'	55	13 $\frac{1}{4}$ "	13"
3521	12"	2000	150	3'	500	17'	60	18"	18"

See Price List for lamps





**2,000-WATT LAMPS  
NOW AVAILABLE**

**all new**

**PATTERN PROJECTORS**

**and Klieglights for Quartz**

**GREATER EFFICIENCIES—LONGER LIFE  
LOW POWER CONSUMPTION**

These Pattern Projectors and Klieglights for Quartz incorporate every currently possible lamp housing refinement and deliver a field of light which is spectacularly sharp, uniform and crisply shaped by **four** individual framing shutters. The Pattern Projectors are equipped with pattern holders and built-in four-way framing shutters as standard equipment. Unrestricted burning position, newly designed reflectors and a new lens system are only a few of the many useful features of these new pieces of equipment. Both types of units are provided with a pipe clamp and 36" of asbestos cable with grounded pin plug connector attached. Twistlock connectors are also available.

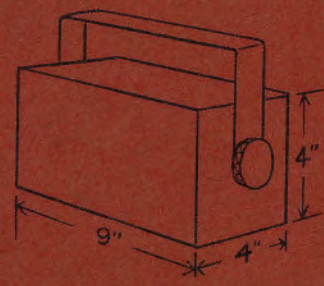
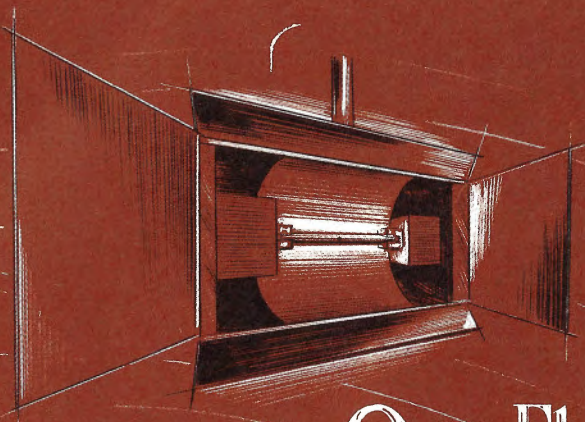
**PATTERN PROJECTORS FOR QUARTZ**

Catalog Number		Wattage	Performance		Unit Dimensions	
Quartz Pattern Projectors	Quartz Klieglights		Spread	Foot Candles	Length	Width
1357P/6W*	1357/6W**	1000	11' @ 25'	175	23 1/2"	10 1/4"
1357P/6*	1357/6**	1000	7.5' @ 25'	275	23 1/2"	10 1/4"
1357P/8*	1357/8**	1000	5' @ 25'	400	28"	10 1/4"
1340P†	1340	400	12' @ 15'	45	14"	5 1/8"
		650		125		
1341P†	1341	400	9' @ 15'	75	14"	5 1/8"
		650		190		

See Price List for lamps

\*Catalog Number 1097TV—set of 16 different patterns  
 \*\*Iris shutters available for all 1,000-watt Quartz Klieglights.  
 †Catalog Number 1098TV—set of 16 different patterns.



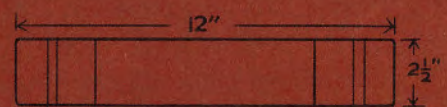


Catalog #3430  
See Price List for lamps

## CLITE Flood for Quartz

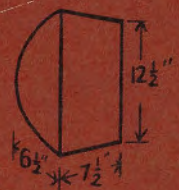
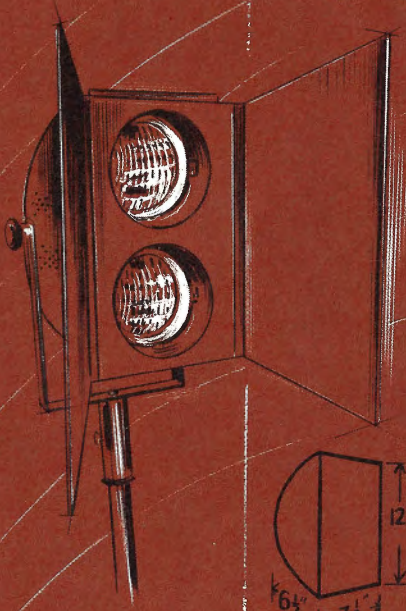
all new

Designed for 500/1000-watt Quartz lamp with low studios in mind and other applications where space is constricted and a limiting factor. Delivers twice as much usable light as the old-style incandescent scoop. It is, to all intents and purposes, a "mighty midget." Suitable for both base and key lighting. Adjustable light intensities with single turn of the knob. Sharp barn door cut-off permits framing RP screens with no spill. Gives Vidicon pictures extra "snap" due to a higher Kelvin, plus very favorable light characteristics. Small, sturdy and powerful.



## Nook Lights for Quartz

A brand-new piece of equipment, for 300/500-watt Quartz lamp, specially designed for unobtrusive placement to permit concentrated flood lighting from cramped quarters. Lightweight, quickly and easily mounted and dismantled as needed, and can even be flown with scenery and set pieces.

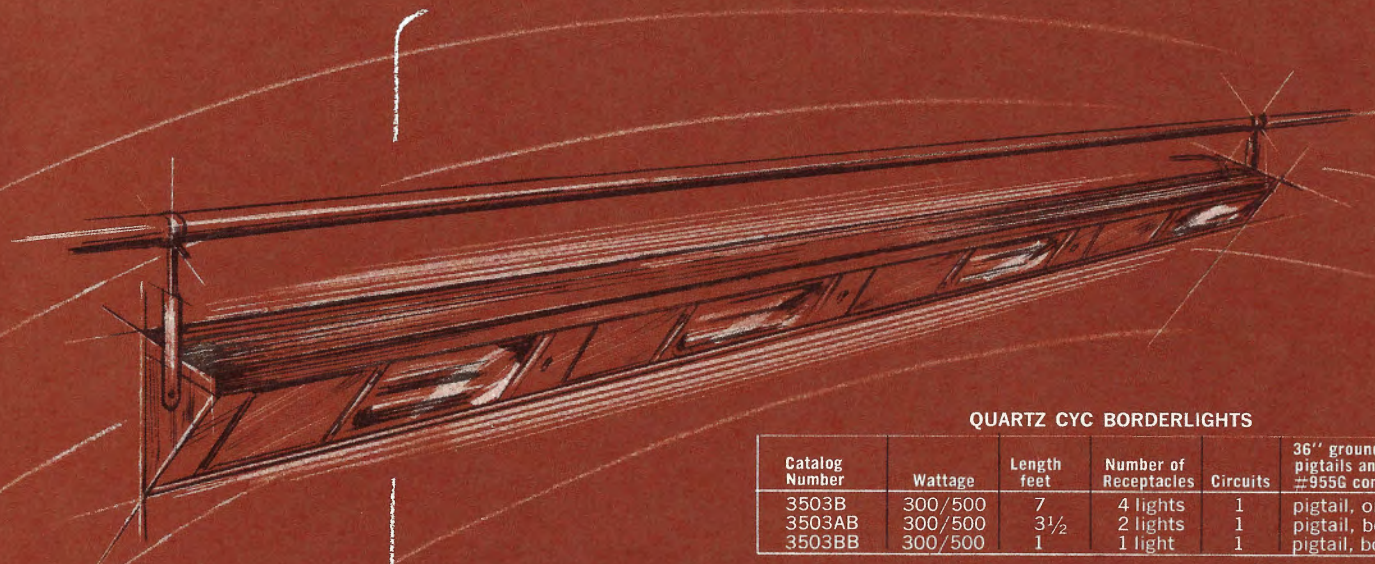


## Lilliput Twin for Quartz

A compact spot/floodlight for TV and film remotes, uses 2 DXK 650-watt Quartz lamps and produces the intensity of a 5KW Fresnel but draws only 11 amperes at 120 volts with no booster transformer. Swivel sockets permit use in either horizontal or vertical positions for barn dooring. Also usable with the new 650-watt FCX flood and FCY spot lamps. Dim-bright switch provides intensities for set-up and operating variation. Unit easily portable at only 10 pounds.

Catalog #3434 See Price List for lamps





QUARTZ CYC BORDERLIGHTS

Catalog Number	Wattage	Length feet	Number of Receptacles	Circuits	36" grounded pigtails and #955G connector
3503B	300/500	7	4 lights	1	pigtail, one end
3503AB	300/500	3½	2 lights	1	pigtail, both ends
3503BB	300/500	1	1 light	1	pigtail, both ends

See Price List for lamps

all new

QUARTZ CYC

# Borderlights and Footlights

FOR MONOCHROME

For cyclorama or back-drop lighting, these new fixtures are unsurpassed for smooth, excellent wash with no scalloping. With these striplights, you get intense, high concentrations of light per running foot and perfect distribution. Simplified tilting arrangement with compact, light-weight construction makes placement quick and easy. Pigtails and grounded pin plug connectors furnished attached. Custom-curved sections and individual units, as well as twistlock connectors available on request.

These units permit concealment by masking with greatly reduced tapered or standard ground rows. Since the illumination is without scallops, the camera can shoot right down to the floor because the even light **starts at the floor**, not above floor. On cycs of 15' or higher, both Foots and Borders should be used and, for very high cycs (20' to 30'), Double Quartz Borders are available.

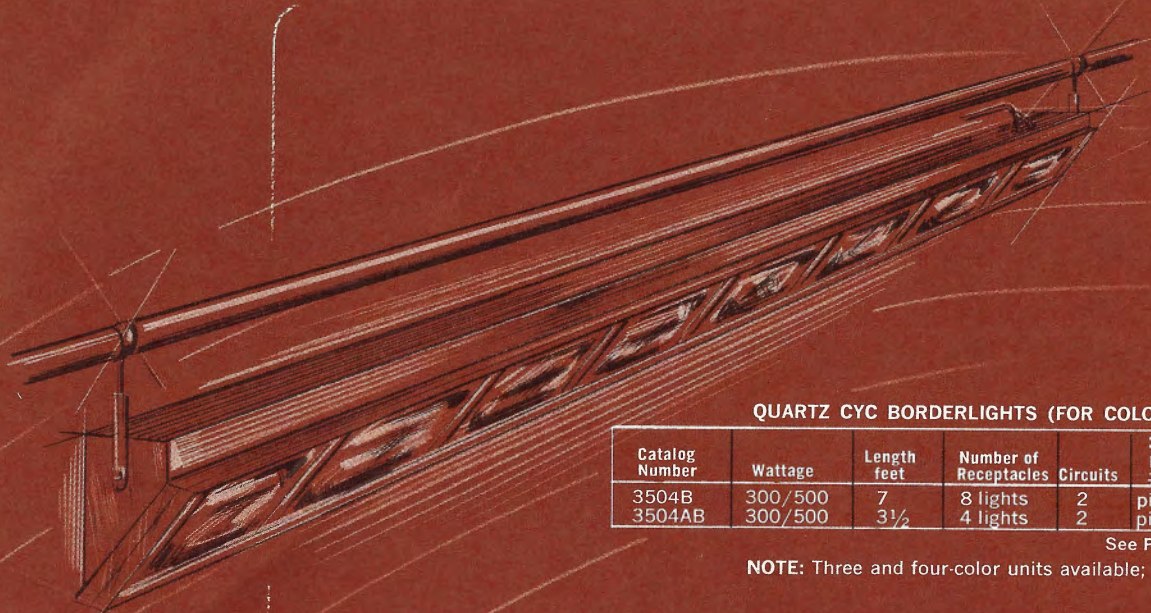


QUARTZ CYC FOOTLIGHTS

Catalog Number	Wattage	Length feet	Number of Receptacles	Circuits	36" grounded pigtails and #955G connector
3500F	300/500	7	4 lights	1	pigtail, one end
3500 AF	300/500	3½	2 lights	1	pigtail, both ends
3500 BF	300/500	1	1 light	1	pigtail, both ends

See Price List for lamps





QUARTZ CYC BORDERLIGHTS (FOR COLOR)

Catalog Number	Wattage	Length feet	Number of Receptacles	Circuits	36" grounded pigtails and #955G connector
3504B	300/500	7	8 lights	2	pigtails, one end
3504AB	300/500	3½	4 lights	2	pigtails, both ends

See Price List for lamps

NOTE: Three and four-color units available; prices on request.

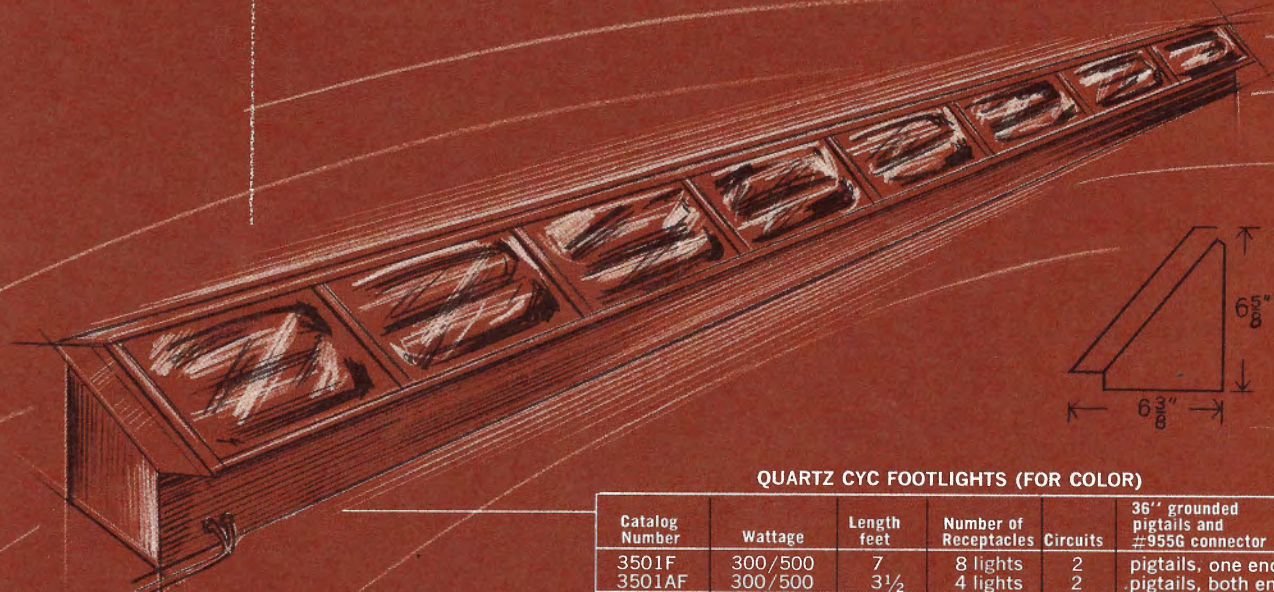
all new

QUARTZ CYC

# Borderlights and Footlights

FOR COLOR

For cyclorama or back-drop lighting, Kliegl Cyc Foots and Borders produce the world's finest cyclorama lighting for color. Minimum masking is required on these fixtures because they are more condensed and compact in both design and structure. Due to maintained Kelvin temperature through the entire lamp life, new lamps next to old never distort light output or dimmer settings. Standard equipment includes 36" pigtails with grounded pin plug connectors attached. Glass colorframe per reflector available in red, dark blue, light blue, green, amber and clear. On request, twistlock connectors and special colors are available. On cycs of .15' or higher, both Foots and Borders should be used and, for very high cycs (20' to 30'), Double Quartz Borders are available.

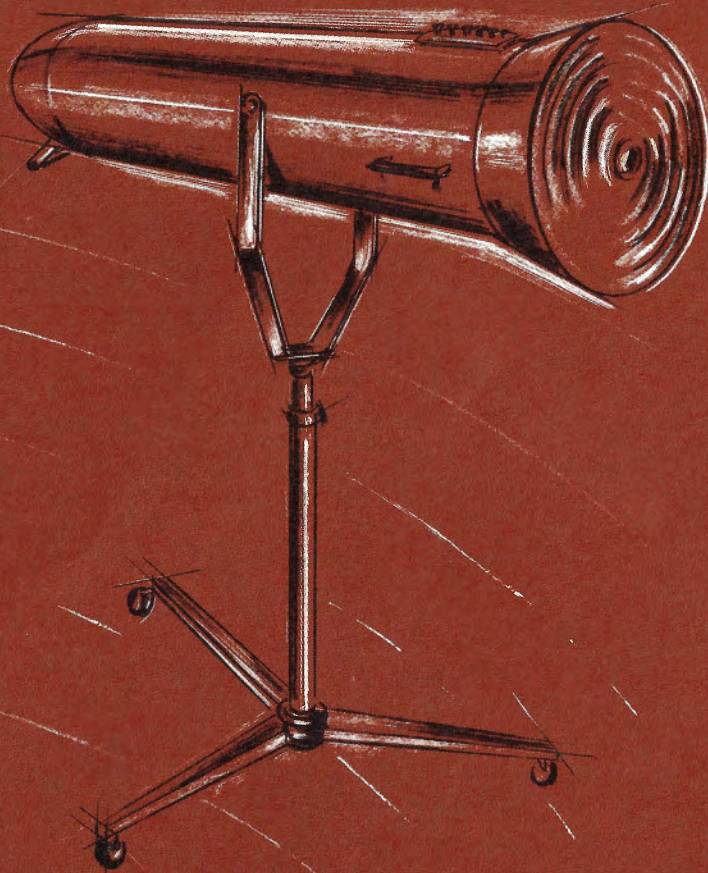


QUARTZ CYC FOOTLIGHTS (FOR COLOR)

Catalog Number	Wattage	Length feet	Number of Receptacles	Circuits	36" grounded pigtails and #955G connector
3501F	300/500	7	8 lights	2	pigtails, one end
3501AF	300/500	3½	4 lights	2	pigtails, both ends

See Price List for lamps





all new

# Follow Spots for Quartz

1,000/2,000 WATTS

This new unit booms an extremely narrow, high-intensity, adjustable beam over long 75 to 125-foot throws and eliminates entirely any need for arc spotlights. The combination of all-new reflector and lens design, in conjunction with the new quartz lamps, produces a light of almost incredible quality and intensity. Each unit carries an iris shutter, individual framing shutters and dual follow handles. You also have, as standard equipment, a roller caster floor stand, 25 feet of cable and a switch. Exceptionally rugged and easy to use, service and maintain, Kliegl Follow Spots with Quartz satisfy the most particular requirements. Equipped with color boomerang.

FOLLOW SPOT

Catalog Number	Wattage	Life, hours	Performance @ 75'		Unit Dimensions	
			Spread	Footcandles	Length	Diameter
1393	1000	30	6'	180	46"	16"
1393	1000	150	6'	140	46"	16"

See Price List for lamps





count on

Kliegl

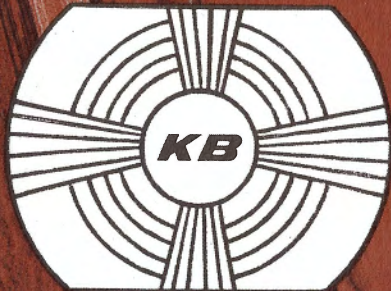
FOR ADVANCED DESIGN LIGHTING  
CONTROL SYSTEMS TO MATCH  
YOUR QUARTZ LIGHTING

Kliegl, today, still offers the world's most advanced line of lighting control systems and the widest range of SCR<sup>®</sup> Dimmers, Control Consoles, Programmers, Autotransformer Dimmer Boards, Cross Connect Systems of Rotolectors<sup>®</sup> and Safpatch<sup>®</sup> units to fit any technician's need. Utilizing the most sophisticated solid state electronic elements and/or the simplest autotransformer type switchboards, Kliegl's Control Systems are fully engineered to complement both equipment and operating requirements.

Based upon hundreds of dimmer installations and thousands of tests both in the laboratory and in the field, Kliegl Control Systems represent a major "break-through" in cutting installation costs and maintenance problems, plus offering heretofore unknown operating flexibility and simplicity.

For complete details on Kliegl Lighting Control Systems, write for Catalog S-65.





**OTHER CATALOG LITERATURE  
AVAILABLE**

Architectural .....	A-12
Standard Theatre Lighting .....	T-61
Quartz Theatre Lighting .....	Q-8
Switchboards .....	S-65
Color Media (Cinemoid & Glass) ..	SM-1
Standard Television .....	TV-6

LIGHTING BY

lighting

**KLIEGL BROS.**

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