

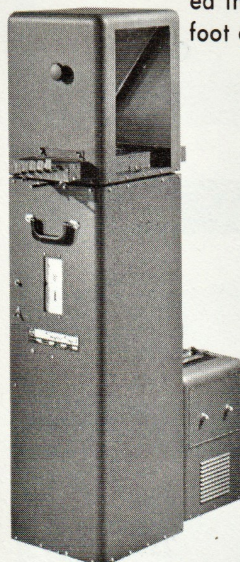
L-370 OZONE FREE

Xenon Super Spot

KNI-TRON
EQUIPMENT



COMPACT CONSTRUCTION — PORTABILITY: Slender, rectangular steel construction requires approximately 1½ square feet of floor space. Sets up to the porthole. The ¼" thick aluminum base can be lagged to the floor. With a swivel head, easily disengaged from body, the entire spot lamp can be readily hoisted in an arena basket. Its compact construction R-2180-3 Silicon Power Supply, uses less than 1 square foot of space adjacent to L-370.



L-370 and R-2180-3

An elapsed time meter, a 0-50 D.C. Ammeter, A.C. power switch, and ignition switch are recessed in right side panel to prevent breakage. Hinged door provides access to entire inner construction. Polarized D.C. jack pin connections and grounded A.C. input receptacle are located in opposite panel for power supply connection. Power supply is relay actuated by A.C. switch on spot lamp.

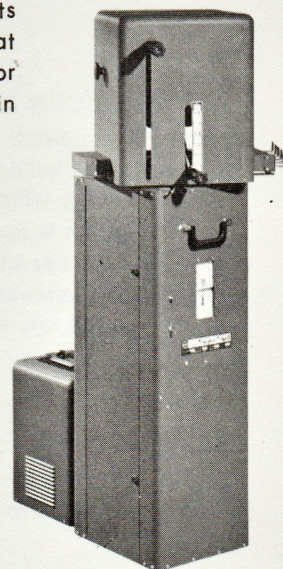
Equipped with carrying handles, with two bail type handles on one side to provide easy removal from packing box, especially designed for rental purposes.

SWIVEL HEAD — BALLBEARING MOUNTED: Only the head swivels a full 180° (90° left and 90° right) with finger-touch control. Reflector tilts 30° up and 45° down. Two spring loaded knobs allow for any degree of reflector tensioning.

CAMMED IRIS AND MOVABLE LENS (Patents Pend.): The L-370 Super Spot is designed with a cam affixed to the movable lens carriage and to the iris. The movable carriage is extended almost all the way, upward, (or out), before iris closes automatically. This guarantees maximum light output, as light loss is eliminated because the iris remains open until lens is in foremost position.

Though heat generated at iris is low, because of the dichroic lamp reflector, iris blades are of high grade nickel-chrome alloy to prevent heat damage. Dissolver diminishes light with single control.

L-570 XENON LAMP ASSEMBLY — OZONE FREE — COOL: The ellipsoidal 500 watt Xenon Lamp mounts vertically, in body, throwing a tremendous amount of light into spot reflector mounted in the head. Heat passes through rear of dichroic reflector. Xenon color temperature, 5600° to 6000° K., is perfect for colored filters. Vertical lamp position is ideal, as arc tail flame cannot etch quartz envelope, resulting in increased lamp life.



SIX COLOR BOOMERANG — COLOR CODED: The L-370 is equipped with a noiseless six-color boomerang. Each inexpensive color filter, protected on both sides to prevent gelatin damage, snaps into boomerang slide. Each slide arm is color coded for instant color selection.

BLIND CUING: A protractor scale and pointer are affixed to the "Super Spot" base for horizontal spot location. A related vertical scale is located along side of reflector tilt control handle on the swivel head. Spot a specific location, and note spot angles on both scales. In a performance, the manual douser is closed, the lamp lighted, and positions of both scales set. When the douser is opened, spot will be in exact location. Protractor scale is visible through a "peep door" at top of "Super Spot" body.

SPOT CONTROL: Spot size and location are regulated by two handles on rear of swivel head. One controls distance of movable lens to aperture lens. The other controls reflector tilt. A third minor adjustment provides focusing of small spot diameters at varying distances. This adjustment is required once, as long as distance, from "Super Spot" to the stage, does not change.

VARIABLE LENS SYSTEM PERFORMANCE AT VARIOUS DISTANCES:

MAXIMUM FLOOD			SMALL SPOT	
Throw: Feet	Spot Dia.	Foot Candles	Spot Dia.	Foot Candles
10	40½"	525.00	5¼"	10,240
20	6' —	160.00	6¾"	7,400
30	8' 10"	80.00	9½"	4,000
40	11' 6"	45.00	12"	2,740
60	18' —	21.00	18"	1,255
80	23' 6"	11.50	24"	730
100	27' 6"	8.00	30"	510
120	33' 6"	5.70	35"	390
140	39' —	4.55	46"	230

MANUAL DOUSER: A manual douser, with hardened steel blades, cuts off beam or narrows it to a thin slit, as desired. Douser handle conveniently located directly beneath reflector tilt handle.

IGNITION DEVICE: A 20 K.V. Igniter is platform mounted directly beneath Xenon Lamp. First stage, high voltage transformer and Tesla Coil are epoxy encapsulated for good dielectric strength. Tungsten spark gap contacts assure long life.

The L-370 is ideal for locations requiring high light levels without sound interference. After lamp ignition, there can be no sound interference.

R-2180-3 SILICON POWER SUPPLY — FAN COOLED: The R-2180-3 is a high reactance design with heavy filter network to reduce ripple voltage. High PRV, avalanche type silicon diodes provide protection against voltage transients by limiting the voltage across the rectifying junctions. This reduces electrical stress which normally results in the surface breakdown, typical of non-avalanche diodes. Such protection is necessary in Xenon applications because of RF generated by the ignition device. Power supply operates from a 120 V. A.C. line with 20 ampere circuit breaker. It connects to the L-370 with non-reversible polarized, jacked D.C. leads and grounded A.C. lead. Eight position tap switch provides rated output, covering A.C. range of 105 to 130 volts.



R-2180-3 POWER SUPPLY

GUARANTEE The L-370 and R-2180-3, except L-570 Xenon Lamp and Silicon Stack, are guaranteed against faulty workmanship and materials for one year. Xenon Lamp is pro-rated over 1,000 hours use, or two years from date of factory shipment, whichever comes first. Pro-rated guarantee covers silicon stacks.

THE KNEISLEY ELECTRIC COMPANY

TOLEDO, OHIO 43608

PRINTED U.S.A. 7/30/71

FORM NO. 290-1