



## Perko XR Series Xenon Searchlight

**15 Inch Housing - Fig. 9304 (500 Watt), 110 or 220 VAC Power Supply**  
**19 Inch Housing - Fig. 9854 (1600 Watt), 220 or 440 VAC Power Supply**

XR Series Xenon Searchlights are designed and manufactured to meet the demanding needs of commercial marine applications. The short arc Xenon filled lamps produce an extremely bright and very white light which can be focused in the pilothouse into a narrow long range beam. The heavy duty head of the 1,600 watt light is a marine grade aluminum casting with integral cooling fins to assure cool operation at high output levels. The cast marine aluminum yoke & base are equally rugged. High quality Timkin bearings provide for smooth 380° rotation.

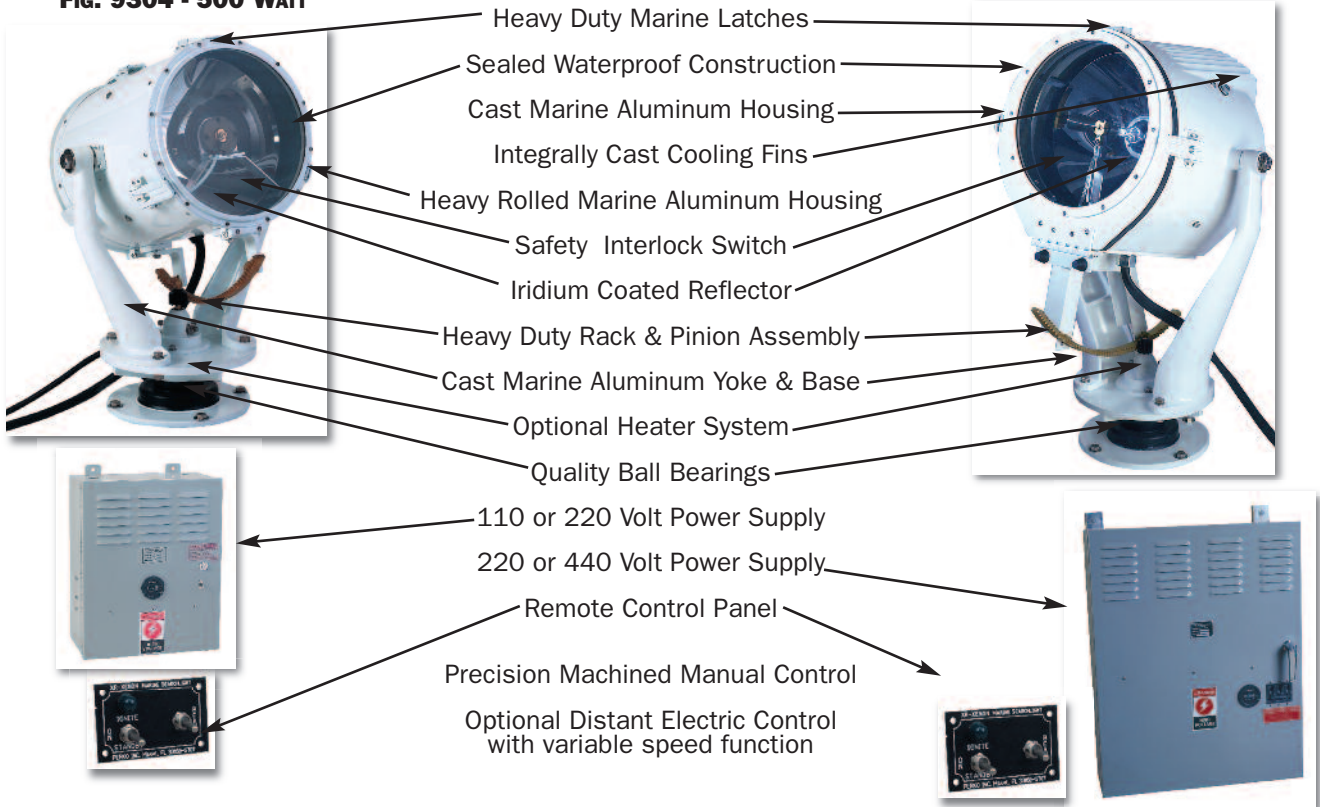
The XR Series model 9854 is available manually controlled with a traditional lever gear control system or remotely controlled with a distant electric control system. In addition, an optional heating capability is available to assure trouble free operation in areas of the world prone to icing conditions. The XR Series model 9854 searchlight can be operated continuously at 1,600 watts for maximum brightness providing in excess of 100,000,000 candlepower and up to 5.5 mile (IES Handbook) range.

The XR Series model 9304 searchlight can be operated continuously at 500 watts for a maximum brightness of 35,000,000 candlepower and over 3 mile (IES Handbook) range. An iridium coated precision reflector provides for maximum light output and sharp focus. The remote control panel controls lamp ignition (start-up) and focus from the pilot house. Superior cooling is provided by a heavy duty cooling fan which blows air across the lamp inside the sealed housing.

Both XR Series Searchlights include a single Xenon lamp. Perko offers a choice of several replacement lamps (1,000 and 1,600 watt) which will operate for the 9854 series searchlight when the proper amperage settings have been chosen. For the 9304 series, a 500 watt Xenon lamp is the only available option.

**Fig. 9304 - 500 WATT**

**Fig. 9854 - 1600 WATT**



**Figs. 9304 & 9854 CONTROL TYPES**

**LEVER GEAR**

Aim handle for horizontal position. Twist handle for vertical position.



**REMOTE ELECTRIC**

Joystick type controller with variable speed function for both horizontal & vertical positioning



## Perko XR Series 15" Xenon Searchlight

**FIG. 9304 (500 WATT) WITH 120 OR 220 VAC POWER SUPPLY**

1

**Remote Distant Electric Control Base**



**Fig. 9511**  
500 Watt Power Supply

TECH INFO		
Nominal Drum Diameter Inches	Nominal Searchlight Assembly Weight Pounds	IP Rating
13-3/4	71	65
Gross Shipping Weight Including Crate		Pounds
Searchlight		185
Power Supply		95M
Control Rod & Tube		11.5
Base Diameter, 12 Inches.M		



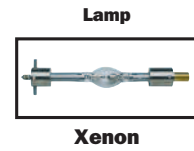
**9551001**  
Remote Control Panel



**Head, Yoke and Base Assembly**

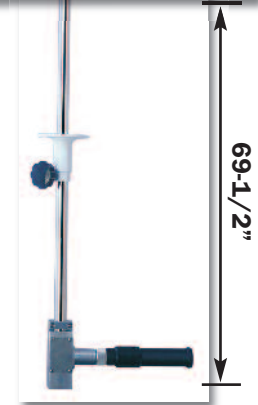


**9510010**  
Control Panel



**Xenon**

**Lever/Gear Control**



**Complete 9304 XR Series Searchlights**

ORDERING INFO With Distant Electric Control Base			
Lamp Type & Lamp Size	Voltage	Catalog No. Without Heaters	Catalog No. With Heaters
500 Watt Xenon	120 VAC	9304E01WH5	9304EH1WH5
500 Watt Xenon	220 VAC	9304E02WH5*	9304EH2WH5*

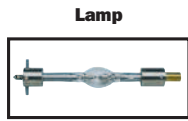
ORDERING INFO With Lever/Gear Controls			
Lamp Type & Lamp Size	Voltage	Catalog No. Without Heaters	Catalog No. With Heaters
500 Watt Xenon	120 VAC	9304L01WH5	9304LH1WH5
500 Watt Xenon	220 VAC	9304L02WH5*	9304LH2WH5*

**NOTE: Lamps are included with complete Searchlights.**  
\* 500 Watt 220 Power Supply Ships 60hz unless 50hz is requested.

## Perko XR Series 19" Xenon Searchlight

**FIG. 9854 (1600 WATT) WITH 220 & 440 (3Ø) VAC POWER SUPPLY**

1



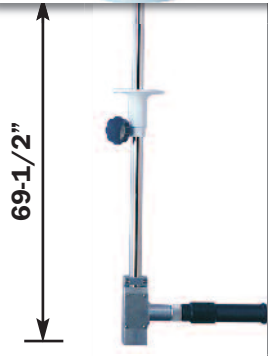
Xenon

19-1/2"  
Front to Back



19"

Lever/Gear Control



69-1/2"

Head, Yoke and Base Assembly

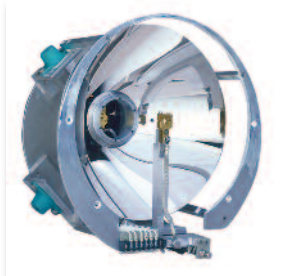


Fig. 9521000 Optical Assy.

TECH INFO		
Nominal Drum Diameter Inches	Nominal Searchlight Assembly Weight Pounds	IP Rating
19	145	65
<b>Gross Shipping Weight Including Crate</b>		<b>Pounds</b>
Searchlight		310
Power Supply		250
Control Rod & Tube		11.5
Base Diameter, 12 Inches.		

Remote Distant Electric Control Base



6"

18"

9551001 Remote Control Panel



Figs. 9510/9512/9514 Power Supply



9510010 Control Panel



**Complete 9854 XR Series Searchlights**

Ordering Info With Distant Electric Control Base			
Lamp Type & Lamp Size	Voltage	Catalog No. Without Heaters	Catalog No. With Heaters
1000 Watt Xenon	220 VAC	9854E02WH0	9854EH2WH0
1600 Watt Xenon	220 VAC	9854E02WH6	9854EH2WH6
1000 Watt Xenon	440 VAC	9854E04WH0	9854EH4WH0
1600 Watt Xenon	440 VAC	9854E04WH6	9854EH4WH6

Ordering Info With Manual Lever Control			
Lamp Type & Lamp Size	Voltage	Catalog No. Without Heaters	Catalog No. With Heaters
1000 Watt Xenon	220 VAC	9854L02WH0	9854LH2WH0
1600 Watt Xenon	220 VAC	9854L02WH6	9854LH2WH6
1000 Watt Xenon	440 VAC	9854L04WH0	9854LH4WH0
1600 Watt Xenon	440 VAC	9854L04WH6	9854LH4WH6





1074 Kenran Industrial Dr.  
St. Louis, MO 63137  
Phone: 1-800-381-9968

## Perko XR Series Xenon Searchlight Bulbs & Spare Components

### Major Component Ordering Information

Components used in the XR Series searchlights are available as spare parts. Detailed ordering information can be found in the operator's maintenance manual for each light. In addition, power supplies can be easily exchanged for factory-rebuilt models offering a low cost means of upgrading or repairing an older unit in the field.

A unique design feature of the 1600-watt light is the ease with which the optical assembly can be changed by removing a few bolts and easily accessible wires. With this feature, complete optical assemblies (both new and factory refurbished) are available to easily upgrade or refurbish an old unit in the field.

Replacement control components, manuals and tools to make adjustments and lamp changing easier are shown below.

#### Searchlight Head and Optical Components

Cat. No.	Description
9504000	Complete 15" Searchlight Head with Optical Assembly
9508000	15" Searchlight Yoke & Base Assy Only
9501000	Complete 19" Searchlight Head with Optical Assembly
9506000	19" Searchlight Yoke & Base Assy Only
9521000	Removable 1,600 Watt Optical Assembly

#### Power Supply Components

Cat. No.	Description
9511000110	500 Watt-110 Volt Power Supply
9511000220	500 Watt-220 Volt Power Supply
9510000220	1,000 Watt-220 Volt (3Ø) Power Supply
9510000440	1,000 Watt-440 Volt (3Ø) Power Supply
9512000	1,600 Watt-220 Volt (3Ø) Power Supply
9514000	1,600 Watt-440 Volt (3Ø) Power Supply

#### Meters, Gauges & Control Components

Cat. No.	Description
9530000	Std. Length Lever Gear Mechanical Controls for Fig. 9854
9551000	Remote Distant Electric Controls for Fig. 9854
9510009	Remote Ammeter
9510003	Hour Meter
9510010	Control Panel Assembly
9551001	Control Panel for Distant Electric Base and Slave Controller

#### Additional Components

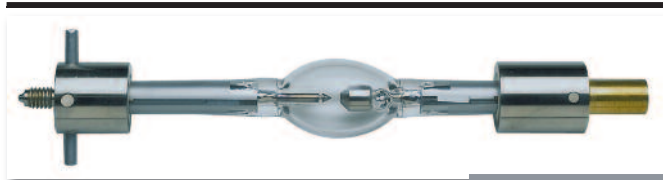
Cat. No.	Description
9510001	Accessory Transformer
9510013	Main Power Transformer
9521009	Excitation Transformer
9521017	Injection Transformer
9510011	Power Supply Fan
9521008	Optical Assembly Fan
9521003	Spark Gap Assembly
9510005	Ignite Toggle Switch
9510006	Beam Focus Switch

#### Searchlight Tools

Cat. No.	Description
9582001	9/64" Hex Lamp Changing Tool (1600 & 1000 Watt)
9582002	500 Watt Lamp Extractor Tool
9582003	1/4" x 10" Reflector Adjusting Wrench
9582005	Spare Emulator Kit for Fig. 9854 (See Manual Cat. No. 9581001 for item list)

#### Manuals

Cat. No.	Description
9581001	Installation Manual - For Fig. 9854 Complete Searchlights
9581002	Installation Manual - For Fig. 9551 Remote Distant Electric Control Unit
9581003	Installation Manual - For Figs. 9501 & 9521 Head and Optical Assemblies
9581004	Installation Manual - For Fig. 9304 Complete Searchlights



### XR Series Xenon Lamps Ordering Info AMPERAGE RATINGS

**WARNING!!**  
Xenon lamps are filled with Xenon Gas under high pressure. **They may explode** in either hot or cold state, especially if dropped or mishandled. **ALWAYS wear protective safety equipment** (a protective face mask with neck guard, chest protector, heavy clothing and leather gloves) **when handling a lamp.**

Xenon Lamp Size	Catalog Number	Current Range	Recommended Operation	Candle Power	Range Miles
300 Watt*	9563000	12A - 16A	15A @ 20V	20,000,000	3.1
500 Watt*	9565000	20A - 30A	30A @ 15V	35,000,000	3.8
1000 Watt	9560000	30A - 55A	50A @ 20V	80,000,000	5.1
1600 Watt	9566000	50A - 70A	65A @ 24V	100,000,000	5.5

\* 300W and 500W lamps shown as replacements on earlier VARO 300W and 500W model searchlights only. Not used on 9854 series searchlights.

### LAMP WARRANTIES REQUIRE COMPLETION OF WARRANTY REGISTRATION FORMS SHORTLY AFTER PURCHASE AND INSTALLATION

NOTE: PERKO offers a limited warranty on both the shelf and operating life of the XR series Xenon lamps. Please see the XR series "Limited Eighteen (18) Month Warranty" for all explicit terms and conditions of this warranty. All XR series Xenon lamps are supplied with an adapter sized to fit XR series searchlights. Adapters for other searchlights can be manufactured upon request. Contact customer service for details.

**PERKO Purchase Notification**

Purchase Price \_\_\_\_\_

Date Completed \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Authorized Dealer \_\_\_\_\_

Motor Vessel Name \_\_\_\_\_

PERKO Inc.  
Miami, FL. 33169

**PERKO Warranty Registration**

Purchase Price \_\_\_\_\_

Hour Meter Reading \_\_\_\_\_

Date of Installation \_\_\_\_\_

Authorized Dealer \_\_\_\_\_

Motor Vessel Name \_\_\_\_\_

PERKO Inc.  
Miami, FL. 33169

SAMPLE