

## IMPORTANT SAFETY INFORMATION

★ This symbol is to alert you to important operating or servicing instructions that appear in your instructions. Always follow basic safety precautions when using this product to reduce the risk of injury, fire or electric shock.

★ The RadioRay® complies with Part. 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This light and remote may not cause harmful interference, and (2) this light and remote must accept any interference received, including interference that may cause undesired operation.

★ FCC RULE Part. 15.21 - Changes or modifications made by the user not expressly approved by Golight, Inc. for compliance could void the user's authority to operate the equipment.

For safe and efficient operation of your Golight® RadioRay®, observe these guidelines:

It is not recommended to leave the light in place during high speed running of the boat. A bag is provided for convenient storage. Close the cover of the deck socket when not in use.

Always **keep the remote in the raincoat provided**. The remote must be kept clean and dry to avoid damage to the internal circuitry.

Your Golight® RadioRay® is a radio transmitter and receiver operating at 433MHz. Whenever the light is on, the internally mounted antenna sends out and receives radio frequency (RF) energy.

- Modern electronic equipment, i.e. Personal medical devices such as pacemakers, hearing aids, etc., are shielded from RF energy. However, RF energy may affect some electronic equipment.
- Marine electronic systems may be affected by RF energy. Check with your marine manufacturer representative to be sure that your RadioRay® will not affect the electronic system of your boat.

## Three Year Limited Warranty

Golight, Inc. warrants the RadioRay® against any deemed defects that are due to workmanship for parts or faulty materials, **except lamps**, for three years from the date of the original purchase. This warranty to the RadioRay® does not cover damage resulting from unreasonable use or misuse, unreasonable maintenance or loss, or labor costs.

Mounting the light upside down will void the warranty.

Warranty cards must be filled out and sent in within 30 days of purchase to Golight, Inc. • RT 3 Box 37B • Culbertson, NE 69024, for warranty protection. Register online at [www.golight.com](http://www.golight.com).

If the Golight® RadioRay® does fail to operate under warranted specifications, send the **light and remote controls** postage paid, plus \$9.95 for shipping and handling to: Golight, Inc. • Service Department • RT 3 Box 37B • Culbertson, NE 69024. No C.O.D.'s accepted. Only the above manufacturer is authorized to perform warranty repair or replace product.

Any consequential damages to person or property are excluded from this warranty. Some states do not allow the exclusion and limitation of incidental or consequential damages, therefore the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights.

[www.magnalight.com](http://www.magnalight.com)  
1-800-369-6671  
903-498-3363  
[sales@magnalight.com](mailto:sales@magnalight.com)

# GOLIGHT®

## RADIORAY® MODEL 2100/2110

### Congratulations

You are now the owner of one of the finest remote control searchlights available today. Thank you for letting Golight® assist you in your lighting application needs. We're proud of our products and the technology that we've developed to ensure our customers the most durable, versatile and powerful searchlights in the lighting industry.



Please read these instructions before using your new Golight® Radioray®.

U.S. Patent 5,673,989

Instruction Guide

The Golight® RadioRay® Model 2100/2110 is designed to be used with the included Perko base socket or an accommodating base socket. The 2-Speed Searchlight with Directional Flexibility is controlled by a wireless remote, which gives the operator a full 370° horizontal rotation and a 135° vertical tilt with fingertip control. The RadioRay® provides superior light penetration with Cr5 PentaBeam™ technology.

The RadioRay® Includes:

- RadioRay® Searchlight  
—Mounted on 12" Stanchion with 12 Volt DC Navigation Lights
- Programmable Wireless Remote (must be kept clean and dry)
- 2 Duracell MN21 or 2 Energizer 23A Batteries
- Raincoat for Remote
- Perko 1047-P00-DP Base Socket
- Lined Nylon Storage Bag

#### **INSTALLATION: NON-EXISTING PERKO MOUNT SOCKET (See Template on Back of Warranty Card)**

1. Locate an appropriate horizontal location on deck or superstructure for installation of socket.
2. Draw a 6" long reference line through the center of the selected mounting location, parallel with the centerline of the boat.
3. Cut out the mounting template. Place it on the mounting surface such that the reference line (step 2) is directly underneath the reference line on the template.
4. Drill pilot holes through the template to accommodate #8 oval head mounting screws (not included).
5. Open a 1.25" diameter hole according to template to accommodate socket.

**IMPORTANT:** This light has been designed to operate in a 2-pin socket, regardless of hot/ground orientation. ★ Existing 3-pin sockets will require modification. So 1 hot and 1 ground lead to the rear 2 pins. 3-pin sockets are originally wired with the front pin being

ground and the back 2 being hot.

**NOTE:** Front of socket is flat.

6. Attach power supply connections to the socket, making sure to wire in accordance with both A.B.Y.C. Standard E-9 and U.S. Coast Guard Safety Standards for Boat Electrical Systems (33 CFR 183).\*\* The supply to this socket for use with the RadioRay® must be protected with a 10 Amp fuse or circuit breaker (12 Volt DC).
7. Mount the base and socket in accordance with the template.

#### **INSTALLATION: EXISTING PERKO MOUNT SOCKET**

Carefully engage stanchion into base socket. As it slides into socket, make sure the alignment screw at rear of stanchion slides into notch at rear of socket. Push stanchion down until it engages with electrical connector at bottom of socket. Lock unit in place by sliding lock collar into the top of the socket and rotate clockwise. Check to make sure stanchion is secure in the socket.

The Golight® RadioRay® Model 2100/2110 is ready for immediate use.

#### **TROUBLE SHOOTING YOUR RADIORAY® MODEL 2100/2110**

If the power receptacle is wired correctly and the light still will not activate with the remote, the boat wire may not be the recommended gauge. Golight, Inc. recommends a minimum of 14 gauge wire; 16 gauge may or may not be sufficient depending on total length of wire.

#### **PROGRAMMABLE REMOTE INSTRUCTIONS**

The Golight® RadioRay® is controlled with a programmable remote with 6561 different channels. This feature allows you the freedom to change the channel selection, and the receiver relearns the new selection.

#### **PROGRAMMING THE TRANSMITTER.**

This light has been pre-programmed at the factory, and it is not necessary to re-program the transmitter, unless you experience outside interference.

1. **IMPORTANT:** Remove RadioRay® from base socket receptacle.
2. Remove battery cover from remote control.
3. Set the 7 dip switches to a selection of your choice. There are 3 positions on each; positive, negative and neutral. Use a small screwdriver and select a position for each dip switch. Please note that the orientation of the +/- switch positions may vary among different models of wireless remote controls.
4. Insert both MN21 Duracell or Energizer 23A batteries with the +/- in the same direction. Be sure batteries have adequate charge.
5. Replace battery cover.
  - a. Depress the on/off button and hold it down. Red LED will light.
  - b. While holding the on/off button down, reinstall the power (replace RadioRay® into base socket).
  - c. Keep your finger on the on/off button for a few seconds and let off. The process is finished and the light should now be programmed.

#### **OPERATION OF GOLIGHT® RADIORAY®**

1. Using the remote control, turn on the light by depressing the on/off button.
2. With the 4-way arrows on the remote control, rotate your light to the desired location. Depending upon conditions, the wireless remote may be used up to 100 feet from the RadioRay®.
3. The speed of the light rotation can be controlled by depressing the +/- button one time and by depressing it again to restore the original speed.

#### **BULB REPLACEMENT**

The Golight® RadioRay® utilizes a Philips® H-9 bulb, which may be

[www.magnalight.com](http://www.magnalight.com)  
1-800-369-6671