I-MARC 200

FOLLOWSPOT

USER MANUAL

MODEL: IM-200/120

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LIMITED WARRANTY
Thank you for purchasing the Strong Lighting iMarc 200 Model #IM-200/120.

The Strong Lighting iMarc 200 is guaranteed against defects in material and workmanship for a period of one year from date of purchase from Strong Lighting. In case of difficulty, contact Strong Lighting or your dealer for repair or return instructions. Iris and dowser are guaranteed for six months under normal use.

Lamps are excluded from this warranty. This warranty does not apply to mechanical defects caused by rough handling or to damage caused by improper operation not in accordance with this manual. Cause of defect is in the sole judgement of Strong Lighting.

This warranty is voidable at Strong Lighting's option under the following circumstances:

User makes unauthorized modifications (electrical or mechanical).
The unit is connected to improper voltage supply.
Any other condition occurs which causes catastrophic failure or impairs Strong Lighting's ability to render proper service.

If the unit is modified by the customer without permission, the customer agrees to pay for any time or parts necessary to remove the modifications before repair, if necessary.

Phoebus will not be responsible for consequential damages caused by failure, for whatever reason, of equipment of its manufacture. Sole liability is for repair or replacement (at Strong Lighting's option) of the defective equipment under the terms described above.

CONTROL DESCRIPTION

Features

1. POWER SWITCH	Off- circuit one (cooling)- Circuit two (on).
2. FUSE	3AB 7AMP
3. REAR LENS CONTROL	Used to focus image. Turn handle clockwise to lock and counterclockwise to unlock. Slide handle to focus.
4. ADJUSTABLE TILT HANDLE	Friction lock for vertical tilt of unit.
5. FRONT LENS CONTROL	Changes image size. Turn handle clockwise to lock and counterclockwise to unlock. Slide handle forward for smaller image, spot distribution, long throws. Slide handle back for larger image, flood distribution, short throws.
6. DOWSER	Mechanical Dimmer. Opens when lever is moved towards operator.
7. IRIS	Controls size of image. Opens widest when lever is moved towards operator.
8. COLOR CONTROLS	Six controls. Gel is inserted in beam when lever is moved down.

SPECIFICATIONS	25 to 150 feet
1. THROW	SMR-202/D1 or UV1
2. LAMP	28.5"L x 51"H x 10.5"W
3. SIZE	60 pounds including base
4. WEIGHT	70° down, 60° up
5. TILT	360°
6. SWEEP	120 volt 50/60Hz under 5 amps
7. POWER	Iris, Dowser, Six Color Boomerang
8. CONTROLS	4" rear, 6" front
9. OPTICS	

Basic Setup and Assembly

1. Unpack and check for shipping damage. Box contents contains the following:
   a. (1) iMarc 200 Followspot.
   b. (1) Yoke Assembly.
   c. (1) Tripod Stand
   d. (1) Pan drag adjust knob with washer and Teflon washer
   e. (1) Gel kit with cover rings and paper fasteners
   f. (1) Accessory Kit w/ 2 Tilt Adjustment Handles

ASSEMBLY INSTRUCTIONS

1. Expand Tripod Base so that it provides a stable platform to hold and operate the fixture.

2. Remove the Pan Drag Adjustment Knob and steel washer from the top of the tripod stand. Attach the Yoke to the tripod stand and replace the steel washer and Pan Drag Adjustment Knob. Leave the Teflon washer in place such that it is between the Yoke on the Tripod Spigot.

3. Slide the small, then the large friction washers onto the threaded stud of the adjustable tilt handle. Thread handle into the bail until it is flushed to the yoke weld nut on the other side of the bail. Spread washers fully apart so that the yoke can be inserted between them.

4. Lift the iMarc 200 using the front and rear of the chassis as supports. Position the bail handle shafts in the U-shaped slots at the top of the yoke. Ensure that the washers are positioned properly. Turn the tilt lock handles to tighten the grip on the yoke. Push the button on the tilt handle for suitable handle positioning.

5. Unscrew the eight thumbscrews located on either side of unit. Remove the two red Control Knobs from the top of the light. Lift off the housing and set aside.

6. Next, unscrew the three 6-32 x 1/2" knurled brass thumbscrews which button down the lamp mount plate. Using care to not lose the thumbscrews, remove the plate. Unpack the lamp and inspect for damage. The lamp interfaces with the lamp ring mounted on the lamp spring side of the plate. Notice the cut out in the bottom of the lamp plate. The lamp filament must align vertically in the middle of this lamp plate cut out.

7. Next, pull the spring mounted red phenolic lamp seat around base of the lamp to snugly seat the lamp. Replace the loaded lamp plate and button down with the three brass knurled thumbscrews.

8. Next, you will need to plug in the lamp to the ballast leads. Insert the male lamp plug into the female receptacle located on the ballast. Plugs are designed to insert one way only. If the plugs do not easily mate, do not force. Rotate 180 degrees for proper insertion.

9. Next, replace the housing by lining up the two control shafts with the rubberized control slots on the housing. Lower housing onto chassis and button down with thumbscrews.

10. Lastly, Screw the two black control knobs onto the iris and dowser control shaft to complete the assembly process. The Imarc is now ready for operation.

SYSTEM OPERATION

I. SETUP AND FOCUSING

1. The iMarc 200 is equipped with a three position switch. On, Cooling & Off. Be sure that the switch is in the off position (down) before connecting the AC line cord into a 110-120 VAC Grounded Receptacle. Flip the power switch to the middle fan, position for cooling purposes. Note: the factory does not recommend cooling the lamp after operation. The cooling feature is provided for those situations where cool down is needed for quick lamp replacement. Flip the switch to the on, up position. Lamp will strike immediately, and will come up to full output within thirty seconds. Lamps are not classified as hot-restrike. However we have found that the lamps will restrike within seconds of shut down. The lamp adjustment thumbnuts have been factory set, and should not need adjusting. However, if needed the adjustment thumbnuts can be accessed through the rear panel. Proper alignment can be achieved with no more then 1/4 to 1/2 turn per screw in either direction. Failure to maintain proper distance may result in reduced lamp and color gel life.
2. Move iris and dowser controls toward operator to open.
3. Move front lens forward for spot or rearward for flood distribution. Position can be chalk marked on side of chassis near handle set.
4. Move rear lens until edge of pattern is in focus. Position may be adjusted for hard or soft edge.
5. Close down the iris by moving its control handle away from the operator.
6. Focused may change slightly with iris closed. Best focus setting is with iris half open.
7. To "zoom" the lenses to a new position, a coordinated motion of both front and rear lenses is used. Note that these lens move opposite to each other to maintain focus

II. BEAM CONTROLS

1. The dowser gradually dims the beam until completely blacked out. Move the control handle away to close and toward to open the dowser.
2. The iris provides a 6 to 1 change in image diameter. It is controlled by the front handle, away to close and toward to open. The brightest spot is obtained with the iris open and the lenses adjusted for the largest spot desired. Smaller spots are then obtained using the iris.

TECHNICAL DATA

I. LAMP

The iMarc 200 uses the Ushio SMR-202/D1, or the SMR-200/UV1 (optional conversion for black-light projection) Emarc DC Flicker Free UV enhanced metal halide Lamp. The lamp envelope is axially mounted in a dichroic reflector. The internally mounted ballast is used to operate the lamp from standard 120 volts.

Lamp life is an average of 1500 hours, however at normal use it is rated at 2000 hrs.

Correlated color temperature is about 5600° Kelvin, Xenon-like light for crisp white imaging.

Take care in handling the lamp, avoid touching the arc tube. Use the outside of the reflector or the base. If the arc tube is touched, clean it with alcohol or freon before use to prolong lamp life.

The lamp is cooled by a fan located below the lamp. This fan is essential to lamp operation. Improper cooling will cause decreased lamp life. Do not allow lamp to cool before cutting power. While the lamp is not classified as hot restrike, it will restrike within 30 seconds.

II. ELECTRICAL

The Imarc operates on 105 to 125V 50/60Hz A.C. Present models draw 7 amps or less, (replace using 7A 3AB Bussman fuse) starting or running, at high power factor. Within the unit and directly beneath the lamp bracket assembly, you will find the internally mounted Ballast used to supply the lamp with the proper voltage and current. There are no user serviceable parts located on this ballast!! Refer to the trouble shooting guide located on page 6 of this manual, or contact the local dealer/ representative in your area.

MAINTENANCE

I. LAMP INSTALLATION

1. Turn off and unplug unit.
2. Loosen the eight thumbscrews on both sides of housing.
3. Remove the two control handle shafts from inside the housing. Black knobs may be removed leaving the shafts in place.
4. Lift and remove housing from chassis.
5. Unscrew the three knurled brass thumbscrews to remove lamp mount plate. If lamp is being installed for the first time, discard the packing material between the seat and plate.
6. Spread the spring loaded lampseat and insert the lamp into the seat and lamp ring assembly. Very important!! Metal filament must be referenced at 6 o'clock and centered in the cut away of the lamp ring assembly.
6. Replace housing, control handles and thumbscrews. Plug in Imarc and flip the switch to the middle position (cooling only) and then to the up (run) position.

II. LENS CLEANING

1. Slide front lens to its extreme forward position using the control handle.
2. Clean the front lens using glass cleaner and a soft, lint-free cloth. The rear surface may be reached by removing the housing.
3. Slide rear lens fully back and clean both surfaces.
4. Replace housing.

III. COLOR GEL REPLACEMENT

1. Unscrew four thumbscrews on either side of the color boomerang.
2. Lift boomerang off. Position it upside down, control levers facing you.
3. Raise the lefthand (operator right) gel holder and lower all the others.
4. Remove three clip fasteners around the gel holder rim.
5. Separate rings, remove old gel.
6. Use the ring as a pattern to cut new gel. Darker gels should be put in lefthand (operator right) gel holders.
7. Insert gel, cover with ring and secure with three clips.
8. Lower lefthand (operator right) gel holder and raise next one.
9. Repeat steps #4 to #8. To access the bottom gel clip, raise all the gels to the left or right and lower the one being worked on.
10. As you move toward the right-hand gels (operator right), insert progressively lighter colors. The lefthand (operator right) holders should be used for deep blue or purple gels.
11. Replace boomerang assembly and secure with four thumbscrews.

IV. HOUSING REMOVAL AND LUBRICATION

1. Unscrew the two control handles on top of unit and remove.
2. Unscrew the thumbscrews.
3. Tighten vertical tilt lock knobs on either side of yoke (unit will be unbalanced with housing off).
4. Grip housing at front and rear top edges.
5. Lift straight up until front lens is cleared, and remove.
6. Wipe all bearing shafts with a cloth dampened with furniture wax.
7. Operate front and rear lenses forward and back to distribute wax.
8. Replace housing, holding front and rear. Guide front over lens and line up front housing and chassis.
9. Insert and screw in two control handles.
10. Screw in thumbscrews.

V. TROUBLESHOOTING-LAMP AND BALLAST

Lamp does not light:

1. If unit is off, check power and fuse. Replace fuse with 7 amp 3AB fuse.
2. If unit is on and the fan is running, check the following:

   (a) Check that the lamp connector is firmly seated into its socket. Lamp may be defective or reached the end of its life.

   (b) The power supply contains no user serviceable parts. Contact Strong Lighting.

WARRANTY CARD

MODEL NUMBER _____

SERIAL NUMBER _____

DATE OF PURCHASE _____

PLACE OF PURCHASE (DEALER NAME) _____

_____

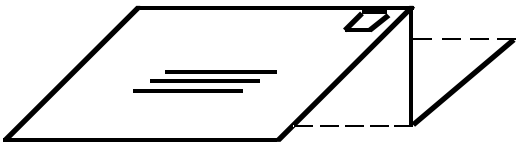
USER'S NAME _____

COMPANY NAME _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP _____

TELEPHONE _____ FAX _____ EMAIL _____



Please fold along the dotted lines and staple
with return address on the outside as shown above.
Thank you!

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Place
stamp
here

Strong Lighting
10533 Chandler Rd, Suite 101
La Vista, NE 68128

ATTENTION: WARRANTY DEPARTMENT