Integra® Luxtec®
9300XSP 300 Watt Xenon Light Source

EN
Integra Luxtec 9300XSP 300 Watt Xenon Light Source
For use with ACMI, Wolf, Storz, and Olympus Fiber Cables

INTEGRA®
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Indications for use

This device is designed to supply high-intensity white light to a fiber optic cable for illumination of a surgical field or other area of examination or operation.

The Integra® Luxtec® 9300XSP Light Source should never be used in ocular surgery or in a surgical procedure requiring direct illumination of the eye.

This device is intended to be used by professional healthcare users.
Symbols
Found on a medical grade light source, other illumination related equipment, fiber optic cables and corresponding packaging.

⚠️ Caution
⚠️ Caution: High Voltage
⚠️ High Temperature
👉 Refer to Instruction Manual
⚠️ Equipotentiality
⚠️ Protective Earth
💧 Humidity Limitation
🌡️ Temperature Limitation
🌡️ Atmospheric Pressure Limitation
💧 Keep dry
🔍 Part Number
_lot Batch Code
_sn Serial Number
⏰ Authorized Representative in the European Community
지고 Manufacturer
📅 Date of Manufacture
✓ This device meets CE requirements
✓ Certified by CSA
⚠️ Consult Instructions for Use
Fuse
Alternating Current
Type CF Equipment
Type BF Equipment
Do Not Dispose
On / Off
Stand-by
System Status Display
System
Push
Hours
Intensity
Motor
Fan
Over Temperature
Lamp
Brightness
General Warnings

The user of this Integra product should be thoroughly familiar and trained in the assembly, use and care of this product.

The user should carefully study the Operation and Service Manual before making any attempt to use the equipment in the clinical environment. Instructions should be followed specifically, with special attention given to warnings, controls and user specifications. The Manual should also be available to the appropriate personnel.

• SAFETY PRECAUTIONS MUST ALWAYS BE EXERCISED WHEN USING ELECTRICAL EQUIPMENT TO PREVENT OPERATOR/ PATIENT SHOCK, FIRE HAZARD OR EQUIPMENT DAMAGE.

• This Manual contains information about the proper procedures for inspecting and preparing this product before its use, and care and storage after use.

• Follow the instructions and restrictions in the operating manuals of other manufacturer’s equipment when they are used in conjunction with this product.

• Before every procedure, carefully inspect the Light Source to ensure it has been properly maintained and cleaned, and that it is fully functional. DO NOT use if inspection reveals any damage such as cable cuts or loose connectors.

• To reduce the risk of fire and electric shock, do not expose electrical equipment to moisture. When cleaning, do not immerse any electrical device in liquid.

• All electrical equipment must be used with approved hospital grade power cords and power plugs inserted properly into grounded AC power outlets. If replacement is necessary replace only with approved power cord.

• Do not use or store liquids on or above the light source.

• This product must be removed from the surgical field prior to the use of a defibrillator.

• The Light Source should never be used in ocular surgery or in a surgical procedure requiring direct illumination of the eye.

• The Light Source produces high intensity light. Thermal burns can be the result of improper use of the Light Source or the light output of the light guide cable.

• Do not position the equipment so that it is difficult to remove the power plug.

Precautions

• Use only fiber optic light guide cables with the correct proximal fitting for your turret and approved and tested for compatibility with high intensity Xenon lamps of 300W or higher.

• To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

• No modification of this equipment is allowed. Other than parts described in this manual, this product has no user serviceable parts. Do not remove the cover or attempt to do any repairs yourself.

• Take precautions not to touch or disconnect the cable end fitting from the turret until the Light Source has been “shut down” for a period of time and allowed to cool. The cable end fitting will remain hot immediately following shut down, which can cause burns.

• Take precautions to not place and rest a hot cable end fitting on a patient or allow the system to come in contact with unprotected hands or tissue. The entire system should be allowed to cool following use. Failure to do so can cause burns and/or tissue damage.
Overview

The 9300XSP delivers 300-Watts of cool white IR filtered light. The lamp is housed in a lamp module that can be easily removed and replaced by the user without special tools.

An illuminated push-on and push-off power switch is located on the front panel. See Figures 1 and 2.

The rotating turret wheel is designed to accommodate the user’s choice of 4 different light guide end fitting styles. The standard turret has ACMI, Olympus, Wolf and Storz adapter ports.

The intensity of the light output is controlled manually by the light intensity knob located to the right of the turret wheel.

The bulb life is indicated in hours of use on the front panel by a digital meter.

Note

You must use ONLY an Integra supplied lamp module assembly for replacement in this Light Source. Use of other lamps or lamp assemblies will void all warranties for this product. Refer to Parts List later in this manual.

Warning

• FIRE HAZARD: DO NOT DRAPE OR COVER THE LIGHT SOURCE WHILE IT IS OPERATING.
• Do not use in an oxygen rich environment or in the presence of flammable anesthetics, liquids, vapors, gases or dusts.
• Do not use or store liquids on or above the Light Source.
• Electric shock hazard. If unit is not functioning properly, DO NOT OPEN. Please refer to the Repair and Return Section of this Manual.
• Use care not to point any light guide directly at the eye while operating the Light Source.
• Keep cooling vent and fans free of obstructions.
• When Light Source is not in use, turn off the power, or rotate the turret 1/8 turn to block light output.

Set Up And Inspection Before Use

The 9300XSP Light Source comes with a power cord that is detachable and is package separately within the package. Please verify that both components have been received undamaged. All fiber optic light guides and bifurcated cables should be cleaned prior to use. Sterilize only if recommended by manufacturer. This device should be used in environments that meet the operating environmental conditions in the specification section of this manual.
Optional Floor Stand Assembly

There are four (4) parts to the floor stand assembly:
See Figure 3.

1. Base with five (5) casters (2 locking)
2. One column with light source base plate
3. Handle Adjustable
4. XSP light source Interlocking Adapter Plate

Floor stand assembly instructions:

1. With the handle positioned so that the Integra / Luxtec® logo is properly aligned, slide the handle onto the column and center the handle about 5 inches (13cm) below the light source base plate. Tighten handle screw to hold in place.

2. Insert assembled column into the base. Seat firmly.

3. Attach the XSP light source Interlocking Adapter Plate onto the base plate with the four (4) screws provided.

4. Open the interlocking adapter Plate by pulling down on the plunger and sliding the lever to the “open” position as labeled. The interlocking adapter base is now ready to receive the Light Source.

Installation of Light Source to Floor Stand

1. Place Light Source on the floor stand base so the front edge is up to the rim of the base. Verify that all rubber feet of the Light Source are positioned on the base.

2. Slide the interlocking adapter plate to the lock position. The plate plunger will snap into the locked position. Figure 5.

3. Check the rear of the Light Source to be sure the floor stand plate captures the support plate underneath the Light Source and is secure. Figure 5.

Setting Up

Before turning power on the Light Source, make sure the unit is plugged into any standard 100V to 240V 50/60Hz (as appropriate) three-conductor outlet. Grounding reliability is guaranteed only when connected to a “hospital grade” receptacle.
Light Source Operation

Power on the Light Source
The power switch is located on the front panel. See Figure 1. Ignition clicking sounds are normal. Some light will show through the turret wheel and the fan outlets. When the power switch is pressed, it will light up indicating power is on. The Light Source is now ready to use.

Rotate turret wheel 1/8 turn to block light output as shown in Figure 6.

When finished using the Light Source, press the power switch again to turn off the unit.

Turret
The 9300XSP Light Source is equipped with a rotary turret. See Figure 6. This turret is to attach light guide cables for instrument or headlight use to the Light Source.

To operate the turret, rotate the wheel until the desired connection lines up with the light channel. When the fiber optic cable is inserted, a click can be heard indicating the cable is properly seated.

Light Attenuation
The 9300XSP has a manually operated light intensity knob to control the desired light output level. To increase the light output, rotate the knob clockwise until the desired level is reached. See Figure 6.

Note
It is strongly recommended that the light intensity be adjusted to the minimum level of brightness for the procedure. There is a risk that prolonged exposure on one spot during surgery at close proximity may cause an increase in tissue temperature. Minimum intensity levels and exposure will mitigate this occurrence.
Xenon Lamp Module Replacement

Note
Please adhere to appropriate safety precautions when performing lamp replacement. Only qualified Personnel should service this device. Protective face mask and gloves should be worn when replacing lamp module. Before changing the lamp module, turn power off and allow the Light Source to cool for at least fifteen (15) minutes.

Please read and comply with all precautions listed in the General Warnings section of this manual. The Xenon Lamp Module should be replaced after 650 hours of use or if the lamp fails to start when the power is turned on.

Note
You must use ONLY an Integra supplied lamp module assembly for replacement in this Light Source. Use of other lamps or lamp assemblies will void all warranties for this product. Refer to Parts List later in this manual.

To remove the lamp:

1. Make sure power switch is turned off. Disconnect the power cord from the hospital grade receptacle.
2. Allow the unit to cool down for a minimum of 15 minutes before replacing the lamp module. The lamp module may represent a burn hazard if not allowed to cool sufficiently prior to servicing the device.
3. Remove the two side screws and loosen the two quarter turn screws in the back of the unit. See Figure 9. Pull back on the top cover handle as indicated in Figure 10A and then pull up on the top cover to open as indicated in Figure 10B.
4. Firmly grasp the lamp module by the protective cover with one hand while pressing the release button with the other. Pull up to remove the assembly. See Figure 11. Do not use excessive force or prying tools.

Rear panel fasteners
To replace the lamp:

1. Replace the lamp module assembly only with an Integra provided lamp module assembly.

2. Firmly grasp the lamp module by the protective cover with one hand while pressing the release button with the other. Do not touch the glass surface of the lamp itself.

3. Line up the base with its mating piece and firmly press the lamp module into place. See Figure 12.

4. Disengage the release button to secure lamp in its proper position. The lamp module should not tilt or jiggle while in place.

5. Pull the top cover down to close the Light Source (reverse movements shown in Figure 10) then push the cover toward the front of the unit to line up side screw holes. Replace side screws. Secure quarter turn screws in back of the unit by turning clockwise.

After closing the unit, push the front panel power button to turn the unit on. Record the number of hours indicated by the digital lamp age meter on the front panel.

**Note**
The Light Source must be operating to reset the digital lamp age meter. See Figure 13. A maintenance log sticker is located on the rear panel of the unit for convenient recording and tracking of this information.

After recording the hours of operation, the digital lamp meter may be reset by momentarily depressing the rear panel reset switch as shown in Figure 13. Turn the Light Source off after completing this procedure. Do not leave the unit operating while unattended.
Turret Assembly Replacement

How to remove the turret:

1. Turn off Light Source. Unplug unit.
2. Rotate turret until Wolf port is lined up at 12 o’clock. See figure 14.
3. Through the Wolf port hole, remove the screw with a Phillips screwdriver.
4. Rotate turret so the Wolf port is over the opposite screw at 6 o’clock.
5. Remove the second screw through the Wolf port.
6. While pulling forward, gently remove the turret assembly.

How to install a new turret:

1. Push turret into hole in bezel. A small pin in the plate behind the cup will line up with a small hole in the turret cup. It will allow the cup to seat only one way.
2. Rotate turret until Wolf port is lined up at 12 o’clock.
3. Install one of the flat head screws (supplied with turret) through the Wolf port.
4. Rotate turret so the Wolf large hole is over the opposite screw at 6 o’clock.
5. Install the second screw through the Wolf port.
6. Rotate the turret to ensure it is seated and secure; the turret should not rock but should rotate freely.

The light source is now ready for use.
Ordering Equipment: 9300XSP Parts List

To place an order, contact your local Integra distributor or call Integra Customer Service at 1-800-325-8966 (USA & Canada only) or +1-914-789-7094 to identify your local Integra representative.

**Note**
Dual Turrets are identified as a two letter suffix. The first letter indicates the primary turret option and the second letter indicates the secondary turret option.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0009300XSPT</td>
<td>300 Watt Xenon Single Turret Light Source with A–W–O–S Turret</td>
</tr>
</tbody>
</table>

For any 9300XDP purchased prior to November 2000, call Integra Customer Service for parts.

**Light Source**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>000090</td>
<td>Lamp Assembly*</td>
</tr>
<tr>
<td>0025001</td>
<td>Lamp only*</td>
</tr>
</tbody>
</table>

* For warranty compliance, an Integra lamp assembly or lamp must be used in these Integra products. The use of a non-Integra bulb or lamp assembly will void the warranty for that product.

**Turret Kit**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>000662</td>
<td>Kit, “T” CF Turret, ACMI, Wolf, Storz and Olympus</td>
</tr>
</tbody>
</table>

**Lamp Assembly (same for both XSP and XDP product lines)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>000090</td>
<td>Lamp Assembly*</td>
</tr>
<tr>
<td>0025001</td>
<td>Lamp only*</td>
</tr>
</tbody>
</table>

**Spare Parts**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400456</td>
<td>Power Switch Assembly</td>
</tr>
<tr>
<td>400681</td>
<td>Digital Age Meter Assembly</td>
</tr>
<tr>
<td>410116LX</td>
<td>Fan Assembly</td>
</tr>
<tr>
<td>600972</td>
<td>Power Supply, 300 Watt Xenon</td>
</tr>
<tr>
<td>600987</td>
<td>Fuse 6.3 Amp, Slow Blow</td>
</tr>
<tr>
<td>601058</td>
<td>Intensity Knob</td>
</tr>
<tr>
<td>601059</td>
<td>Actuator Knob</td>
</tr>
<tr>
<td>601178</td>
<td>Attenuator O-Ring</td>
</tr>
<tr>
<td>601981</td>
<td>Handle</td>
</tr>
<tr>
<td>601318</td>
<td>Rubber Bumper Feet</td>
</tr>
<tr>
<td>601949EUR6</td>
<td>European Power Cord 20’ (6m)</td>
</tr>
<tr>
<td>601949UK6</td>
<td>Hospital Grade UK Power Cord 20’ (6m)</td>
</tr>
<tr>
<td>601949US6P1</td>
<td>Hospital Grade USA Power Cord 20’ (6m)</td>
</tr>
<tr>
<td>604035</td>
<td>Interlock Switch</td>
</tr>
</tbody>
</table>
Troubleshooting

<table>
<thead>
<tr>
<th>Trouble Area</th>
<th>Possible Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power</td>
<td>Light source not plugged in</td>
<td>Plug in light source</td>
</tr>
<tr>
<td></td>
<td>Top cover not closed</td>
<td>Close and secure top cover</td>
</tr>
<tr>
<td>No light output</td>
<td>Light source not turned on</td>
<td>Turn power on</td>
</tr>
<tr>
<td></td>
<td>Bad/no lamp</td>
<td>Check lamp seating/replace lamp module</td>
</tr>
<tr>
<td></td>
<td>Attenuator closed</td>
<td>Check position of knob on front panel</td>
</tr>
<tr>
<td></td>
<td>Turret mispositioned</td>
<td>Rotate turret to desired adapter fitting</td>
</tr>
<tr>
<td></td>
<td>Blown fuse</td>
<td>Replace fuse as indicated in maintenance section</td>
</tr>
<tr>
<td>Reduced light output</td>
<td>Cable mismatched to turret</td>
<td>Rotate turret to matching adapter fitting</td>
</tr>
<tr>
<td></td>
<td>Attenuator mispositioned</td>
<td>Check position of knob on front panel</td>
</tr>
<tr>
<td></td>
<td>Bad lamp</td>
<td>Replace lamp module</td>
</tr>
</tbody>
</table>

Maintenance And Cleaning

**Maintenance:**

If the Light Source does not operate properly when connected to a grounded receptacle, check the fuses. Do not attempt to repair the unit if the lamp fails in use. Turn off the unit and allow it to cool for at least 15 minutes, then try to restart the unit. If the lamp still fails to illuminate, the lamp may be defective, the lamp has exceeded its useful life (see lamp replacement), or there is a power failure. Try replacing the lamp module. If you still experience difficulties, return the unit to Integra for evaluation.

**Cleaning:**

The Light Source can be cleaned and disinfected using 70% isopropyl alcohol. Unplug the power cord before cleaning. Allow 5 minutes for alcohol to evaporate before reconnecting to power.

**To replace the fuse:**

The fuses for the Light Source are located in the power entry module in the rear of the unit. Plug in power cord. Using a small flat screwdriver, pry out the red plastic back from the power entry module. Check to see if either fuse is blown, then replace with fuse(s) of the same rating (T6.3A 250V). To replace the red block in the housing, snap the retaining ring in place. Plug cord back into Light Source and retest the unit. If unit now works, replace the cord lock with screws previously removed to secure cord to unit.
## Specifications

### Lamp

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Xenon Short Arc Lamp</td>
</tr>
<tr>
<td>Wattage</td>
<td>300 Watts</td>
</tr>
<tr>
<td>Color Temperature</td>
<td>&gt;5000 Kelvin, IR Filtered</td>
</tr>
<tr>
<td>Bulb Warranty</td>
<td>650 Hours, Prorated per Hour</td>
</tr>
<tr>
<td>Position</td>
<td>Horizontal ±15°</td>
</tr>
</tbody>
</table>

### Light Source

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>15”L x 12”W x 5”H (381mm L x 305mm W x 127mm H)</td>
</tr>
<tr>
<td>Weight</td>
<td>21 lbs. (9.5kg)</td>
</tr>
<tr>
<td>Power Input</td>
<td>100–240VAC, 50/60Hz</td>
</tr>
<tr>
<td>Circuit Protection</td>
<td>Fuse 6.3A 250V</td>
</tr>
<tr>
<td>AC Power Leakage</td>
<td>Leakage current to chassis (with ground wire intact), less than 100 micro amps</td>
</tr>
<tr>
<td></td>
<td>Leakage current to chassis (with ground wire interrupted), less than 500 micro amps</td>
</tr>
<tr>
<td>Protection Class</td>
<td>Class 1</td>
</tr>
<tr>
<td>Electrical Safety</td>
<td>Conforms to UL 60601-1, IEC 60601-1, and CSA C22.2 NO. 601.1</td>
</tr>
<tr>
<td>Electromagnetic Compatibility</td>
<td>IEC60601-1-2</td>
</tr>
<tr>
<td>Environment:</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>Operating 10°C – 40°C / Storage 0°C - 50°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>85% Relative Humidity Non-Condensing Maximum</td>
</tr>
<tr>
<td>Mode of Operation</td>
<td>Continuous</td>
</tr>
<tr>
<td>Ingress Protection</td>
<td>IP20</td>
</tr>
</tbody>
</table>
Electromagnetic Compatibility (EMC) User Information

**Warning**
Medical Electrical Equipment needs special precautions regarding EMC and needs to be installed and put into service according to the Electromagnetic Compatibility [EMC] information provided in the accompanying documents.

**Warning**
Portable and Mobile RF Communications Equipment can affect Medical Electrical Equipment.

**Warning**
The equipment or system should not be used adjacent to or stacked with other equipment; if adjacent or stacked use is necessary, the equipment or system should be observed to verify normal operation in the configuration in which it will be used.

**Note**
The EMC tables and other guidelines that are included in the Instruction Manual provide information to the customer or user that is essential in determining the suitability of the Equipment or System for the Electromagnetic Environment of use, and in managing the Electromagnetic Environment of use to permit the Equipment or System to perform its intended use without disturbing other Equipment and Systems or non-medical electrical equipment.

**Table 201: Guidance and Manufacturer’s Declaration – Emissions All Equipment and Systems**

The XSP light source is intended for use in the electromagnetic environment specified below. The customer or user of the XSP light source should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Emissions Test</th>
<th>Compliance</th>
<th>Electromagnetic Enforcement – guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Emissions CISPR 11</td>
<td>Group 1</td>
<td>The XSP uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.</td>
</tr>
<tr>
<td>RF Emissions CISPR 11</td>
<td>Class B Radiated and Conducted Emissions</td>
<td>The XSP is suitable for use in all establishments including domestic, and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes. Conducted Emissions Tests Performed at both 240VAC, 50Hz and 120VAC, 60Hz</td>
</tr>
<tr>
<td>Harmonics IEC 61000-3-2</td>
<td>n/a</td>
<td>Equipment intended for Professional Use Only</td>
</tr>
<tr>
<td>Flicker IEC 61000-3-3</td>
<td>n/a</td>
<td>Equipment intended for Professional Use Only</td>
</tr>
</tbody>
</table>
# Electromagnetic Compatibility (EMC) User Information

**Table 202: Guidance and Manufacturer’s Declaration—Immunity All Equipment and Systems**

The XSP/XDP is intended for use in the electromagnetic environment specified below. The customer or user of the XSP/XDP light source should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>IEC 60601 Test Level</th>
<th>Compliance Level</th>
<th>Electromagnetic Environment - Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic Discharge (ESD)</td>
<td>±6kV contact</td>
<td>±6kV contact</td>
<td>Floors should be wood, concrete or ceramic tile. If floors are synthetic, the relative humidity should be at least 30%.</td>
</tr>
<tr>
<td></td>
<td>±8kV air</td>
<td>±8kV air</td>
<td></td>
</tr>
<tr>
<td>Electrical Fast Transient/ burst</td>
<td>±2kV on AC Mains</td>
<td>±2kV on AC Mains</td>
<td>Mains power quality should be that of a typical commercial or hospital environment. Note - Tests Performed at both 240VAC, 50Hz and 120VAC, 60Hz</td>
</tr>
<tr>
<td>IEC 61000-4-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surge</td>
<td>±1kV Differential</td>
<td>±1kV Differential</td>
<td>Mains power quality should be that of a typical commercial or hospital environment. Note - Tests Performed at both 240VAC, 50Hz and 120VAC, 60Hz</td>
</tr>
<tr>
<td>IEC 61000-4-5</td>
<td>±2kV Common</td>
<td>±2kV Common</td>
<td></td>
</tr>
<tr>
<td>Voltage dips, short interruptions and voltage variations on power supply input lines</td>
<td>&gt;95% Dip for 0.5 Cycle</td>
<td>&gt;95% Dip for 0.5 Cycle</td>
<td>Mains power quality should be that of a typical commercial or hospital environment. If the user of the XSP unit requires continued operation during power mains interruptions, it is recommended that the XSP unit be powered from an uninterrupted power supply or battery. Note - Tests Performed at both 240VAC, 50Hz and 120VAC, 60Hz</td>
</tr>
<tr>
<td>IEC 61000-4-11</td>
<td>60% Dip for 5 Cycles</td>
<td>60% Dip for 5 Cycles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30% Dip for 25 Cycles</td>
<td>30% Dip for 25 Cycles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt;95% Dip for 5 Seconds</td>
<td>&gt;95% Dip for 5 Seconds</td>
<td></td>
</tr>
<tr>
<td>Power Frequency 50/60Hz Magnetic Field</td>
<td>3A/m</td>
<td>3A/m</td>
<td>Power frequency magnetic fields should be that of a typical location in a typical commercial or hospital environment. Note - Tests Performed at both 50Hz and 60Hz</td>
</tr>
<tr>
<td>IEC 61000-4-8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Electromagnetic Compatibility (EMC) User Information

Table 204: Guidance and Manufacturer’s Declaration – Emissions Equipment and Systems that are NOT Life-Supporting

The XSP light source is intended for use in the electromagnetic environment specified below. The customer or user of the XSP light source should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>IEC 60601 Test Level</th>
<th>Compliance Level</th>
<th>Electromagnetic Environment - Guidance</th>
</tr>
</thead>
</table>
| Conducted RF           | IEC 61000-4-6 3 Vrms from 150 kHz to 80 MHz                                         | V1 = 3 Vrms      | Portable and mobile RF communications equipment should be separated from the 9300XSP light source by no less than the recommended separation distances calculated/listed below:  
  \[ D = \left( \frac{3.5}{V1} \right) \sqrt{P} \] |
| Radiated RF            | IEC 61000-4-3 3 V/m 80 MHz to 2.5 GHz                                               | E1 = 3 V/m       | \[ D = \left( \frac{3.5}{E1} \right) \sqrt{P} \] \hspace{1cm} 80 to 800 MHz  
  \[ D = \left( \frac{7}{E1} \right) \sqrt{P} \] \hspace{1cm} 800 MHz to 2.5 GHz  
  Where P is the maximum power rating in watts and D is the recommended separation distance in meters. Field strengths from fixed transmitters, as determined by an electromagnetic site survey, should be less that the compliance levels (V1 and E1). Interference may occur in the vicinity of equipment containing a transmitter. |

Table 206: Recommended Separation Distances Between Portable and Mobile RF Communications Equipment and the 9300XSP Equipment and Systems that are NOT Life-Supporting

The XSP is intended for use in the electromagnetic environment in which radiated disturbances are controlled. The customer or user of the XSP can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF Communications Equipment and the XSP as recommended below, according to the maximum output power of the communications equipment.

<table>
<thead>
<tr>
<th>Maximum Output Power (Watts)</th>
<th>150 kHz to 80 MHz</th>
<th>80 to 800 MHz</th>
<th>800 MHz to 2.5 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01</td>
<td>0.11667</td>
<td>0.11667</td>
<td>0.23333</td>
</tr>
<tr>
<td>0.1</td>
<td>0.36894</td>
<td>0.36894</td>
<td>0.73785</td>
</tr>
<tr>
<td>1</td>
<td>1.1667</td>
<td>1.1667</td>
<td>2.3333</td>
</tr>
<tr>
<td>10</td>
<td>3.6894</td>
<td>3.6894</td>
<td>7.3785</td>
</tr>
<tr>
<td>100</td>
<td>11.667</td>
<td>11.667</td>
<td>23.333</td>
</tr>
</tbody>
</table>
**Repair And Return Information**

This device must be clean and decontaminated prior to return to Integra. Integra reserves the right to return unrepaired any equipment that is contaminated with blood or other organic material.

**Warranty Service and Repair:**
To obtain service under warranty or return product for repair, the customer should contact your local Integra distributor or call Integra Customer Service at 800-431-1123 (USA & Canada) or +1-914-789-7094.

**Limited Express Warranty**

Integra warrants that the new 9300 XSP light source shall be free from defects in material and workmanship under normal use and service for a period of three (3) years from the date of shipment. Integra’s sole and exclusive liability under the warranty shall be, at Integra’s option, either to repair any component which fails during the warranty period due to any defect in workmanship or material F.O.B. factory if:

1. Customer promptly reports such defect to Integra in writing,
2. If requested by Integra, customer returns equipment to Integra with shipping charges paid by Integra and,
3. Upon inspection, Integra finds the equipment to be defective.

This warranty is contingent upon normal and proper use of the equipment. It does not cover equipment that has been modified with non-Integra parts without the written approval of Integra, subjected to unusual physical or electrical stress, or damaged during shipment. This warranty is non-transferable unless authorized in writing by Integra.

Integra reserves the right to make design changes on its products without liability to incorporate said change in Integra products previously designed or sold.

Upon receipt of the product, it should be carefully inspected. If any defect is discovered, notification must be given immediately to the manufacturer or authorized distributor.

**Repair And Return**

This device must be clean when returned to Integra. Integra reserves the right to return unrepaired any equipment that is contaminated with blood or other organic material.

**Disposal of the product, packing material and accessories**

For disposal, observe the relevant regulations and laws valid in your country.

Information contained in this manual is subject to change without notice.