



uVision™ Series

UV-A/White Light LED NDT Inspection Lamp
Part No. UV-365SBLC; UV-365MSBLC



RoHS
Compliant



06/22 AM17029ML-7
PRINTED IN U.S.A





WARNING

UV emitted from this product. Avoid eye and skin exposure to unshielded products.

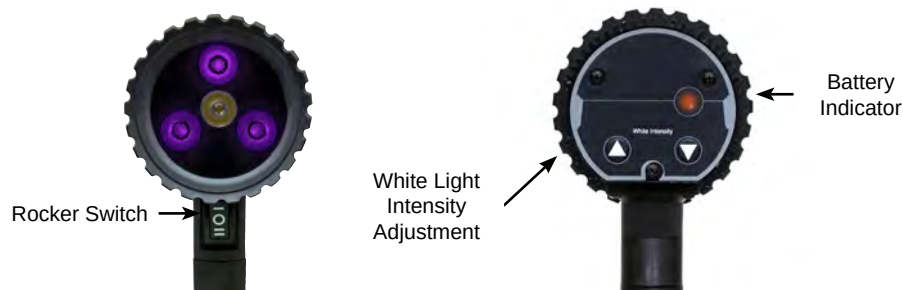
FOR PROFESSIONAL EXAMINATION USE ONLY

IMPORTANT SAFETY INSTRUCTIONS (Read all instructions)

- Do not operate the **uVision™ Series UV-A/White Light LED NDT Inspection Lamp (UV-365SBLC/UV-365MSBLC)** if the lamp has been damaged.
- Do not look directly into the light. **ALWAYS** wear the UV-absorbing protective glasses provided when operating the lamp. Use in low-light conditions to achieve the best inspection results. The darker the room, the greater the fluorescent contrast.
- The uVision™ is not approved for use in hazardous atmospheres. Do not attempt to use it in areas requiring explosion-proof lighting.
- Never use this equipment in any manner not specified in these instructions because your protection may be impaired.
- **NEVER** aim the lamp in the direction of another human being. **It is meant for professional fluorescent inspections ONLY!**
- **DO NOT** attempt to modify the lens assembly or light output. Doing so may alter the performance and intensity of the uVision™.

OPERATION

- The uVision™ series UV-A inspection lamps are equipped with a heavy-duty power cord.
- The lamp is shipped with the correct cord installed for the country of destination.
- Connect the plug to a power source that complies with the electrical requirements specified on the label.
- The lamp has a three-position rocker power switch (II – UV; O – off; I – white light) on the handle.
- The UV-365SBLC and UV-365MSBLC have White Light Intensity Adjustment Controls located on the back plate of the lamp. The Battery Indicator is also located on the back plate of the lamp. The Battery Indicator light will be Orange when the battery is charged and the lamp is operating within RRES compliance. When the battery is nearly depleted, the light will flash between Red and Orange. Detailed instructions for recharging the battery are located on Page 4.
- The UV-365SBLC and UV-365MSBLC are designed to automatically shut off if the unit operates outside of RRES compliance standards. To turn the unit back ON from a shut off event, turn the lamp OFF and then ON using the three-position rocker switch.
- **WARNING:** Be sure to use genuine uVision™ replacement parts. Using another manufacturer's replacement parts could affect product performance and will void the warranty.



CHANGING THE LAMP POWER SUPPLY

The appropriate cord for the country of destination will be installed on the lamp when it is ordered. The power cord is integrated into the lower portion of the lamp handle, forming a cord/handle assembly. A set of detailed instructions for changing the lamp cord come with the replacement parts. Contact Customer Service for more details.

DISASSEMBLING THE FILTER PROTECTOR FOR MAINTENANCE

The outer rubber cover/filter holder may be removed periodically to clean the Borofloat® glass filter. To disassemble the Borofloat® Filter Protector (FP-600), first remove the front rubber cover/filter holder. Peel the rubber cover/filter holder toward the front portion of the lamp.



The Borofloat® glass filter will remain inside the protector. To remove the Borofloat® glass filter, peel around the edge of the rubber cover/filter holder and push the glass filter out. To replace or reinsert the Borofloat® glass filter into the rubber cover/filter holder, slide the Borofloat® glass filter into the channel of the rubber cover/filter holder. Manipulate the rubber cover around the filter. Ensure the glass filter is evenly seated.

REPLACING THE UV LENSES

The UV-A lenses (UL-110) covering the three UV-A LEDs must be replaced over time. They will solarize (become cloudy and yellow) from repeated use. A set of detailed instructions come with the replacement UV-A lenses (UL-110). See Replacement Parts section and contact Customer Service for more details.

ENVIRONMENTAL SPECIFICATIONS

The uVision™ series lamps are designed to be safe under the following conditions:

- For Indoor/Outdoor Use (dustproof and protected against jets of water);
- Temperature 41°F to 122°F (5°C to 50°C);
- Mains supply voltage fluctuations not to exceed $\pm 10\%$ of the nominal voltage.

LIMITED WARRANTY

The warranty policy for the uVision™ lamp is provided on the Certificate of Limited Warranty enclosed separately with each unit. NOTE: For assistance of any kind, please contact the Customer Service Department at Spectro-UV. Provide the model, the serial number of the unit, and the date of purchase. The unit's serialization information is located (1) on the packaging the unit is shipped in, (2) engraved on the unit's handle, and (3) labeled on the reverse side of the unit's back plate.

CHARGING AND USAGE OF THE BP-30 BATTERY PACK (UV-365MSBLC ONLY)

The BP-30 battery pack must be fully charged before first use.

- Check if the voltage characteristics of the battery charger match the voltage of the AC outlet.
- Align the male connector of the smart charger to the female connector of the battery pack (BP-30) and plug them together. Twist the ring on the charger connector to make a tight connection.
- Attach the AC cord supplied to the charger and plug the unit into a properly regulated AC outlet.

- The indicator light on the charger will show Red while it is charging and Green when the battery is charged. A full charge will take approximately 2 hours.
- After the battery is charged, unplug the charger from the outlet first. Unplug the charger from the battery pack.

BATTERY LED INDICATOR STATUS	
Orange = Power on, battery good	
Blink Orange and Red = Low Battery; time left approx. 10 – 15 mins	
Red = Dead Battery, Approx. 5 minutes or less remaining	
Shut Down	

For AC Operation

- Align the male connector of the lamp to the female connector of the AC adapter and plug them together. Twist the ring on the adapter connector to make a tight connection. Attach the plug to the corresponding AC power source.

For DC Operation

- Align the male connector of the lamp to the female connector of the receptacle on the fully charged BP-30 battery pack.
- The lamp will operate for approximately 4 hours before turning OFF. The UV-365SBLC and UV-365MSBLC are designed to automatically shut off if the unit operates outside of compliance standards. To turn the unit back ON from a shut off event, turn the lamp OFF and then ON using the three-position rocker switch. The Battery Indicator light will be Orange when the battery is charged and the lamp is operating within RRES compliance. When the battery is nearly depleted, the light will flash between Red and Orange.

CARE AND USE OF NICKEL-METAL HYDRIDE (NiMH) BATTERIES

- NiMH battery packs last longer when charged and stored in a temperature range between 50°F to 86°F (10°C to 30°C) away from heat, sunlight and humidity.
- Always charge batteries to full capacity before long-term storage (approximately 30 days) to prevent aging. After storage they must be charged, which may require conditioning (two or three charge/discharge cycles) to reach full capacity.
- Do not subject these batteries to repeated deep discharges that run the batteries down completely on a regular basis as this will greatly shorten battery life.
- NiMH batteries generally have no voltage sag until the last 10% of charge.
- NiMHs have no toxic lead or mercury, and a life expectancy of 500 charge/discharge cycles or more, provided the battery is not overcharged or heavily discharged. Recycle according to local disposal laws.

MEASURING LAMP INTENSITY

To ensure that your uVision™ series lamp is operating at the required UV intensity, it should be checked periodically. Spectro-UV offers a variety of sensors and meters. The AccuPRO™ XP-2000 combines the functionality of a UV and visible light radiometer/photometer, and is specially designed to measure UV irradiance with wavelengths of 320–400nm (with peak at 365nm) and visible light from 460–675nm (with peak at 555nm). Other suitable meters include the AccuMAX™ XRP-3000 radiometer/photometer kit, using dual-wavelength UV-A and VIS sensor detectors to accurately measure the irradiance of a light source. The AccuMAX™ XR-1000 digital readout unit with the XS-365 UV sensor or the DM-365XA digital readout unit can also be used for UV-A measurement. For more information about these units, please contact the Customer Service Department

UV-365SBLC Technical Details

KEY FEATURES

- Nominal steady state intensity of 4,500 $\mu\text{W}/\text{cm}^2$ at 15 inches (38cm).
- Large 6-inch diameter coverage area at 15 inches (38cm) with a minimum UV-A intensity of 1,200 $\mu\text{W}/\text{cm}^2$ (ASTM E3022-15 / Rolls Royce RRES 90061).
- Less than 1.0 foot-candle (11 lux) emission.
- Long-lasting UV-A lenses.
- Cool running, fanless design.
- Lightweight and rugged construction.
- White Light, LED Inspection Light.
- IP65 Rated: The uVision™ Series lamps are protected from total dust ingress and from low pressure jets of water (from all directions). For more details, consult EN 60529 (British BS EN 60529:1992, European IEC 60509:1989).
- Certificate of Conformance (ASTM E3022-15) included.
- Validation Report (Rolls Royce RRES 90061) included.

TECHNICAL SPECIFICATIONS

uVision™ Series

UV-365SBLC

Height	UV-A (365nm) and white light 7.5 inches
Length	4.25 inches
Width	3.75 inches
Weight	4.29lb. (1,946 g) with power supply; 1.94 lb. (880 g) without power supply.
Light Source	3 UV-A LEDs, 1 white light LED

ELECTRICAL SPECIFICATIONS

Input: 100-240V AC, 0.9, 50-60 Hz
Output: 15V DC, 2.4A



POWER CORD SPECIFICATIONS

LAMP PART NUMBER

UV-365SBLC
UV-365SBLC/F
UV-365SBLC/FA
UV-365SBLC/FB
UV-365SBLC/FBR

POWER REQUIREMENTS*

120V/50–60Hz
230V/50Hz
240V/50Hz
230V/50Hz
220-240V/50-60Hz

*Each lamp is fitted with an 8-foot cord and the appropriate plug for the country of destination. An optional 20-foot cord is available. The "/20" suffix denotes the 20-foot power cord options.

*See next page for detailed power cord information.

UV-365SBLC POWER SUPPLY INFORMATION

LAMP	COUNTRY	VOLTAGE	CORD LENGTH	PART NUMBER
UV-365SBLC	US	120	8'	130260
UV-365SBLC/F	EU	230	8'	130261
UV-365SBLC/FA	AU	240	8'	130262
UV-365SBLC/FB	UK	230	8'	130263
UV-365SBLC/FBR	BR	220-240	8'	130501

LAMP	COUNTRY	VOLTAGE	CORD LENGTH	PART NUMBER
UV-365SBLC/20	US	120	20'	130264
UV-365SBLC/20/F	EU	230	20'	130265
UV-365SBLC/20/FA	AU	240	20'	130324
UV-365SBLC/20/FB	UK	230	20'	130325
UV-365SBLC/20/FBR	BR	220-240	20'	130500

**All power cords include the lower portion of the handle.*

UV-365MSBLC Technical Details

KEY FEATURES

- Nominal steady state intensity of 4,500 $\mu\text{W}/\text{cm}^2$ at 15 inches (38cm).
- Large 6-inch diameter coverage area at 15 inches (38cm) with a minimum UV-A intensity of 1,200 $\mu\text{W}/\text{cm}^2$ (ASTM E3022-15 / Rolls Royce RRES 90061).
- Less than 1.0 foot-candle (11 lux) emission.
- Long-lasting UV-A lenses.
- Cool running, fanless design.
- Lightweight and rugged construction.
- White Light, LED Inspection Light.
- IP65 Rated: The uVision™ Series lamps are protected from total dust ingress and from low pressure jets of water (from all directions). For more details, consult EN 60529 (British BS EN 60529:1992, European IEC 60509:1989).
- Certificate of Conformance (ASTM E3022-15) included.
- Validation Report (Rolls Royce RRES 90061) included.
- BP-30 Battery and Charging Set.

Technical Details continued on the next page.

TECHNICAL SPECIFICATIONS

uVision™ Series

UV-365MSBLC

Height

Length

Width

Weight

Light Source

UV-A (365nm) and white light

7.5 inches

4.25 inches

3.75 inches

4.29lb. (1,946 g) with power supply;

1.94 lb. (880 g) without power supply.

3 UV-A LEDs, 1 white light LED

ELECTRICAL SPECIFICATIONS

Input: 100-240V AC, 0.9, 50-60 Hz

Output: 15V DC, 2.4A



POWER CORD SPECIFICATIONS

LAMP PART NUMBER

UV-365MSBLC

UV-365MSBLC/F

UV-365MSBLC/FA

UV-365MSBLC/FB

UV-365MSBLC/FBR

POWER REQUIREMENTS*

120V/50-60Hz

230V/50Hz

240V/50Hz

230V/50Hz

220-240V/50-60Hz

*Each lamp is fitted with an 8-foot cord and the appropriate plug for the country of destination. An optional 20-foot cord is available. The "/20" suffix denotes the 20-foot power cord options.

UV-365MSBLC POWER SUPPLY INFORMATION

LAMP	COUNTRY	VOLTAGE	CORD LENGTH	PART NUMBER
UV-365MSBLC	US	120	8'	130290
UV-365MSBLC/F	EU	230	8'	130291
UV-365MSBLC/FA	AU	240	8'	130292
UV-365MSBLC/FB	UK	230	8'	130293
UV-365MSBLC/FBR	BR	220-240	8'	130502

LAMP	COUNTRY	VOLTAGE	CORD LENGTH	PART NUMBER
UV-365MSBLC/20	US	120	20'	130294
UV-365MSBLC/20/F	EU	230	20'	130295
UV-365MSBLC/20/FA	AU	240	20'	130322
UV-365MSBLC/20/FB	UK	230	20'	130323
UV-365MSBLC/20/FBR	BR	220-240	20'	130503

**UV-365SBLC EXPLODED VIEW
AND REPLACEMENT PARTS**

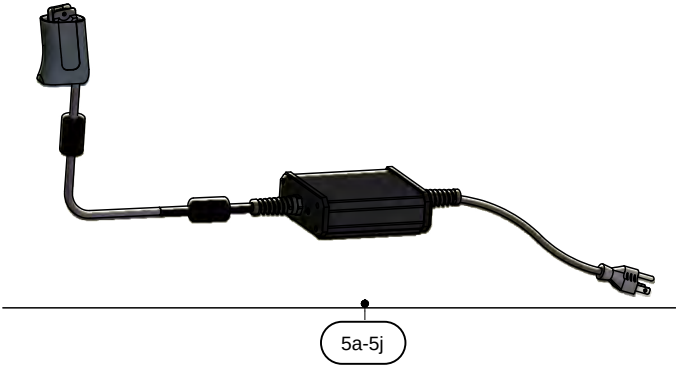


Replacement Parts

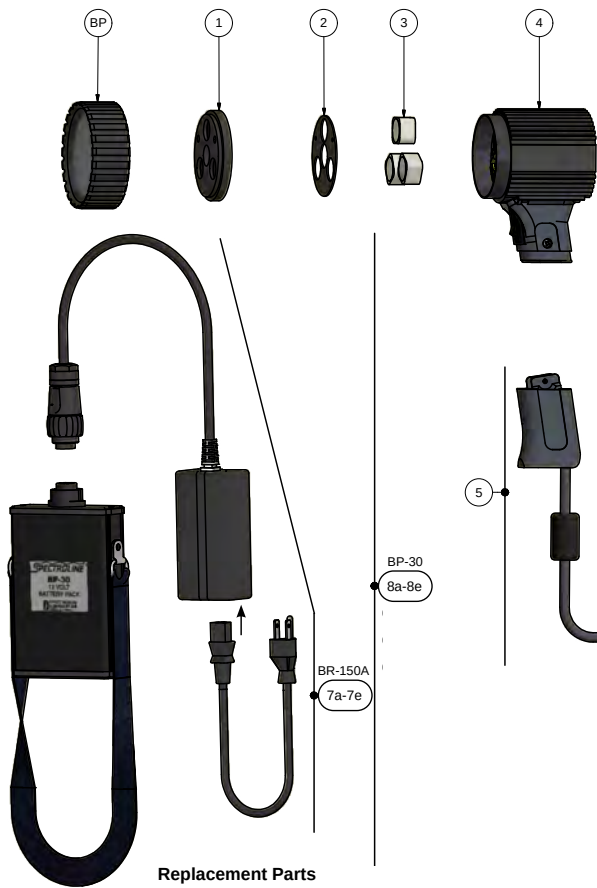
ITEM	QTY	PART NO.	DESCRIPTION
BP	1	FP-600	BOROFLOAT FILTER PROTECTOR
1	1	128196	FRONT COVER PLATE / FILTER ASSEMBLY
2	1	128385	FRONT COVER GASKET
3	3	UL-110	UV-A LENS
4	1	130336	LAMP HOUSING ASSEMBLY
5a	1	130260	POWER SUPPLY, 8', 120V, US
5b	1	130261	POWER SUPPLY, 8', 230V, EU
5c	1	130262	POWER SUPPLY, 8', 240V, AUS/CN
5d	1	130263	POWER SUPPLY, 8', 230V, UK
5e	1	130501	POWER SUPPLY, 8', 220-240V, BR
5f	1	130264	POWER SUPPLY, 20', 120V, US
5g	1	130265	POWER SUPPLY, 20', 230V, EU
5h	1	130324	POWER SUPPLY, 20', 240V, AUS/CN
5i	1	130325	POWER SUPPLY, 20', 230V, UK
5j	1	130500	POWER SUPPLY, 20', 220-240V, BR

Accessories

QTY	PART NO.	DESCRIPTION
1	140005	CARRYING CASE
1	UVS-30	UV-ABSORBING SPECTACLES



Dimensions and Weight of the Power Supply
 Length: 5 inches
 Width: 4.5 inches
 Height: 1.875 inches
 Weight: 2.35 lb. (including power cables)



Replacement Parts

ITEM	QTY	PART NO.	DESCRIPTION
7a	1	BP-30	BATTERY PACK, 120V, US
7b	1	BP-30/F	BATTERY PACK, 230V, EU
7c	1	BP-30/FA	BATTERY PACK, 220-240V, AUS/CN
7d	1	BP-30/FB	BATTERY PACK, 230V, UK
7e	1	BP-30/FBR	BATTERY PACK, 220-240V, BR
8a	1	BR-150A	SMART CHARGER FOR BP-30, 120V, US
8b	1	BR-150A/F	SMART CHARGER FOR BP-30, 230V, EU
8c	1	BR-150A/FA	SMART CHARGER FOR BP-30, 220-240V, AUS/CN
8d	1	BR-150A/FB	SMART CHARGER FOR BP-30, 230V, UK
8e	1	BR-150A/FBR	SMART CHARGER FOR BP-30, 220-240V, BR

10

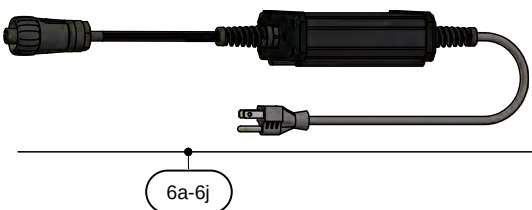
UV-365MSBLC EXPLODED VIEW AND REPLACEMENT PARTS

Replacement Parts

ITEM	QTY	PART NO.	DESCRIPTION
BP	1	FP-600	BOROFLOAT FILTER PROTECTOR
1	1	128196	FRONT COVER PLATE / FILTER ASSEMBLY
2	1	128385	FRONT COVER GASKET
3	3	UL-110	UV-A LENS
4	1	130336	LAMP HOUSING ASSEMBLY
5	1	130297	CORD / HANDLE ASSEMBLY (3.5')
6a	1	130290	POWER SUPPLY, 8', 120V, US
6b	1	130291	POWER SUPPLY, 8', 230V, EU
6c	1	130292	POWER SUPPLY, 8', 240V, AUS/CN
6d	1	130293	POWER SUPPLY, 8', 230V, UK
6e	1	130502	POWER SUPPLY, 8', 220-240V, BR
6f	1	130294	POWER SUPPLY, 20', 120V, US
6g	1	130295	POWER SUPPLY, 20', 230V, EU
6h	1	130322	POWER SUPPLY, 20', 240V, AUS/CN
6i	1	130323	POWER SUPPLY, 20', 230V, UK
6j	1	130503	POWER SUPPLY, 20', 220-240V, BR

Dimensions and Weight of the Power Supply

Length: 5 inches
Width: 4.5 inches
Height: 1.875 inches
Weight: 2.35 lb. (including power cables)



Accessories

QTY	PART NO.	DESCRIPTION
1	140005	CARRYING CASE
1	UVS-30	UV-ABSORBING SPECTACLES

11