

# Operating Instructions for UV Lamps

## Models: 4, 7, 8, & 88

### Health & Safety Cautions:

- Note that shortwave emits Ultraviolet Radiation, which can cause severe damage to unprotected eyes and skin. Make sure that protective eye/face wear is being worn as well as adequate clothing to protect all exposed skin surfaces. On models that emit longwave, also known as "blacklight", are considered safe and require no special precautions.
- Make sure unit is plugged into a properly grounded outlet.
- Unit should be unplugged to change the tube. It is also important to note that one must not touch the tube surface with their fingers when doing the above operation. Always hold tube by the pins on both ends of the tube.

### Operating Procedures:

#### Models: 4, 7, 8, & 88 (LW, SW, LS-115/230V):

It is important to note that this range of lamps have been redesigned as of September 1999. These redesigned models are better made with a momentary on/off switch as well as a convenient strap to hold the lamp in your hand. Please note that the intensity of each model has not changed from the original manufacturing, but just the cosmetic look of the lamp.

#### To Start The Lamp:

As stated above these models come equipped with a momentary switch. To start the lamp simply press the switch to the on position and hold for 2-3 seconds before releasing your finger off the switch. After performing this function the lamp will illuminate. If the lamp does not illuminate, repeat this procedure and hold in the upright position for an extra second. There is a symbol of a "light bulb" on the switch, which signifies which direction is "on". To turn off the lamp, simply press the switch in the opposite direction of the "on" position. A "clicking" noise will signify that your lamp is in the "off" position. Your lamp is now inactive. It is always good practice to unplug your lamp after each use. It is important to note that on the Model LS-7, either longwave or shortwave can be turned on but both can not be turned on at the same time as the previously manufactured model.

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## FILTERS & TUBES:

There is an easy method to differentiate the difference between longwave/shortwave tubes and filter. With respect to filtered glass, your longwave glass will have a rough or rippled surface where as your shortwave glass will appear highly smooth and polished. Your longwave tube will be white or frosted in appearance where as your shortwave will be completely clear. For the models that are a "one tube" combination longwave/shortwave, the rough glass is placed over the white/ frosted side of the tube and the smooth/polished glass is placed over the clear tube respectively. Filter glass can be cleaned with any ordinary household glass cleaner but should be unplugged before performing this operation. (See chart below for replacement tubes, filters and UV glasses.)

REPLACEMENT TUBES					REPLACEMENT FILTERS					
Wave	MM	Inches	Lamp	Stock#	Wave	MM	Inches	Lamp	Stock#	
SW	152x16	6 x 5/8	SW4,LS7,PP-FS,M-FS	#11-053	*LW	30x41	1.20 x 1.625	LW4, LS4	#05-192	
SW	228x16	9 x 5/8	LS-88, R-5	#11-054	*SW	30x41	1.20 x 1.625	SW4, LS4	#05-194	
SW/LW	152x16	6x5/8	LS4, PPFLS	#11-062	*LW	30x103	1.20 x 4.075	LS7	#11-033	
LW	152x16	6x5/8	LS7,LW4,PPFL	#11-070	*SW	30x103	1.20 x 4.075	LS7	#05-197	
LW	228x16	9x5/8	LS88, LW8, RS-L	#11-071	*SW	45x164	1.8 x 6.50	LS88	#11-043RP	
UV Glasses-Clear					#12-023	LW	45x164	1.8 x 6.50	LW8	#11023
The Story of Fluorescence					#12-022					
VB-7	View Box for use with LS-7 Lamp			#12-014						
VB-8	View Box for use with LS-88 Lamp			#12-015						
VB Adapter - Durable plastic adapter allows easy conversion for the VB-8 View Box to go with all Raytecor 5-2 Models					<i>* Denotes Filter Glass For Redesigned Lamps Only</i>					

Please note that we recommend using Raytech's OSHA approved line of UV Glasses when using the above-mentioned lamps. If you have any further questions or need to return a lamp for repair, contact the Raytech sales department for a Return Material Authorization (RMA) number at 1-800-243-7163 within the United States and outside the US, call (860) 632-2020, extension 324. Our hours of operation are Monday through Friday from 9:00AM - 4:30PM EST. Warranty is always one year from date of purchase.



Instruction No: 04322

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05/12