

Mineralight® and Blak-Ray® Ultraviolet Lamps and Accessories

UVP manufactures a wide range of UV lamps for use in many applications including fluorescence of minerals. Selected lamp models can be used with lamp stands and cabinets for hands-free viewing. This brochure discusses the use of these lamps in fluorescing minerals as well as detailed information on the lamps and accessories.

Ultraviolet Applications

Numerous minerals and substances not readily discernible to the human eye will glow colorfully under ultraviolet light. Some materials are sensitive only to shortwave UV (254nm), while others will fluoresce with longwave UV (365nm) or midrange ultraviolet (302nm). Mineral collecting and fluorescence of minerals under UV can be enjoyed by hobbyists as well as a means of capturing students' interest in the earth sciences. Museums use UV lamps in display cases to show fluorescence of mineral specimens. Industrial applications include non-destructive testing and inspection. UV lamps can also be used in many quality control, readmission, sterilization, arson investigation and other applications. A sampling of applications for UV are provided on UVP's web site.

The Mineralight shortwave UV lamps use a special UVG™ filter which screens out most visible light but allows passage of the shortwave UV rays. Blak-Ray lamps utilize longwave UV. When used in darkness, these rays excite vivid color responses from fluorescent objects such as mineral ores as well as many other types of fluorescent and phosphorescent materials.

When using ultraviolet equipment, it is important to wear safety glasses to protect the eyes from harmful UV radiation.

Ultraviolet Lamps

Portable Handheld Lamps

For field use, UVP offers several battery-operated hand lamps. Each lamp housing is manufactured of impact resistant plastic.

Mini UV Lamps are four watt models available with longwave UV (365nm) or shortwave UV (254nm), or multiband combination in one unit. Lamps are lightweight and small enough to fit into a pocket. A nylon strap is attached for easy handling. Mini UV Lamps operate on 4 AA batteries (not included). The **UVL-4F** includes longwave UV as well as a flashlight!

Portable UV Lamps are operated by two six-volt lantern batteries (order separately). Optional 6V rechargeable batteries (two required) and charger (12V float battery charger) are available. A distinctive wrap-around handle comfortably balances the lamp in your hand. A sliding wavelength selector is added on the **UVGL-48** split-tube, multiband model for switching between wavelengths. Lamp includes a small built-in flashlight.



Rechargeable UV Lamp

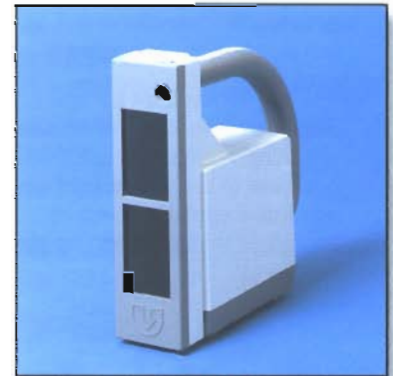
Rechargeable 26P UV Lamps come in three dual-tube models: shortwave, longwave, longwave/shortwave. A toggle switch on the **UVSL-26P** allows for selection of longwave or shortwave separately or both UV wavelengths at the same time. A nylon strap runs along the back of the lamp enabling more flexibility of wrist movement. The lamp operates on the internal gel-based, lead-acid battery. An optional 12V adapter plug is available for charging the lamp from a car cigarette lighter.



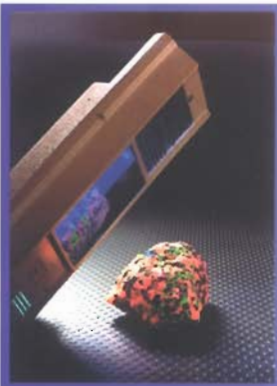
Mini UV Lamps



UVL-4F



Portable UV Lamps



ULTRAVIOLET

UVP

Handheld UV Lamps for Home or Office

UVP manufactures a large selection of A/C powered lamps. Now you can choose from durable plastic models (four or six watts) or the new metal fabrication styles (EL Series with four, six or eight watts)

PL Series – Durable, Plastic Models

Compact UV Lamps (four watts) feature longwave, shortwave or multi-UV style. A snap-on wavelength selector is provided for easy switching between wavelengths on multiband units. An on/off button is conveniently located on the back of the Compact UV Lamp

Handheld UV Lamps (six watts) offer longwave, shortwave or multiband longwave/shortwave UV models. These lightweight models have a comfortable, ergonomically designed handle. The multiband units come with a snap-on wavelength selector (shown in photo to the right) for easy switching between wavelengths. The on/off switch is located on the back of the lamp



UVG-11 Compact UV Lamp



UVGL-55 Handheld UV Lamp



EL Series UV Lamps

EL Series – Rugged, Metal Designs

UVP's EL Series UV Lamps are composed of four, six and eight watt model in a variety of wavelength configurations. The lamp housing is manufactured of rugged, scratch-resistant, powder-painted metal.

EL Series basic models provide one UV wavelength of your choice plus one white light tube – the advantage of white light or UV illumination in one unit!

Twin models have two tubes of the same wavelength. If you require multiple wavelengths, 2UV and 3UV EL Series Lamps use different wavelengths (see Ordering Information). The 3UV Model, available only in the eight watt style, gives three wavelengths in one unit! No other lamp offers this versatility. Easily switch among wavelengths with UV selector switch.

Display UV Lamps

UVP manufactures several XX-15, UVGD and 225D Series Display UV Lamps for mineral fluorescence and inspection applications. The **225D Series Display UV Lamps** feature 50 watts (two 25-watt tubes) of intensity for bright fluorescence of minerals. Each lamp includes adjustable handles and mounting brackets. Lamp available with longwave, shortwave or midrange UV plus a combination shortwave and longwave model

The high intensity **UVGD-68 Display Lamp** uses a shortwave UV grid lamp. The lamp design is similar to the 225D lamps. These Display Lamps are excellent for large scale display. The shortwave grid of the UVGD-68 is rated at 20,000 hours of use with unlimited on/off capability. A special UVG filter is included. An adjustable handle/bracket is supplied for easy mounting.

The **XX-15 Display Lamps** use an aluminum reflector for optimum fluorescence. Fixtures come with two 15-watt tubes and built-in brackets for a wall or ceiling mounting. When ordering the XX-15S shortwave model, a filter cover is required to screen out most of the visible light while allowing passage of the shortwave UV rays. The optional Exposure Stand can be used with any of the XX-15 series lamps. Minerals and other materials can be placed on the shelf which is adjustable.



UVL-225D Display UV Lamp



XX-15L Display UV Lamp with Exposure Stand




Invisible Ultraviolet Fluorescent Inks

Ask for information on UVP's line of invisible UV Fluorescent Inks. Inks are suited for use on skin, fabric and porous or textured surfaces. Uses include readmission tracking.















Lamp Ordering Information

For additional lamps and information, go to uvp.com

	Style	Model	Part No.		Wavelength	Dimensions L x W x H	Unit Weight	
			115V/60Hz	230V/50Hz				
Battery Operated Models		UVG-4	95-0158-04		254nm	6.3 x 1 x 2.1 in (160 x 25 x 53 mm)	0.5 lb (0.23 kg)	
		UVL-4	95-0125-05	--	365nm			
		UVSL-14P	95-0188-02		254/365nm			
	Mini - 4 Watt		UVL-4F	95-0305-03	--	365nm/White	6.3 x 1 x 2.1 in (160 x 25 x 53 mm)	0.5 lb. (0.23 kg)
				ML-49	95-0011-01	--	365nm	9.5 x 2.8 x 9.4 in (241 x 71 x 238 mm)
	UVG-47	95-0009-02		--	254nm			
	UVGL-48	95-0010-02		--	254/365nm			
	Recharge Portable - 6 Watt		UVL-26P	95-0186-01	95-0186-02	365nm	9.8 x 3 x 5.5 in (249 x 76 x 140 mm)	4 lbs. (1.8 kg)
			UVS-26P	95-0187-01	95-0187-02	254nm		
			UVSL-26P	95-0181-01	95-0181-02	254/365nm		
Display Lamps - A/C Powered Models - Hand Lamps		UVG-11	95-0016-14	95-0016-15	254nm	7.8 x 2.8 x 2.1 in (198 x 71 x 53 mm)	1 lb (0.45 kg)	
		UVGL-15	95-0017-09	95-0017-10	254/365nm			
		UVL-21	95-0018-02	95-0018-03	365nm			
		UVL-23R	95-0019-01	95-0019-03	365nm			
		UVGL-25	95-0021-12	95-0021-10	254/365nm			
	Compact - 6 Watt		UVG-54	95-0004-09	95-0004-10	254nm	14.9 x 3.2 x 2.5 in (378 x 81 x 64 mm)	2 lbs. (0.91 kg)
			UVGL-55	95-0005-05	95-0005-06	254/365nm		
			UVL-56	95-0006-02	95-0006-03	365nm		
			UVM-57	95-0104-01	95-0104-02	302nm		
			UVGL-58	95-0007-05	95-0007-06	254/365nm		
	Handheld - 6 Watt		UVS-14	95-0266-01	95-0266-02	254nm/White	14.8 x 3.8 x 2.5 in (376 x 97 x 65 mm)	2 lbs. (0.91 kg)
			UVL-14	95-0264-01	95-0264-02	365nm/White		
			UVS-24	95-0269-01	95-0269-02	254nm		
			UVL-24	95-0267-01	95-0267-02	365nm		
			UVLS-24	95-0271-01	95-0271-02	365/254nm		
	EL Series - 4 Watt		UVS-16	95-0274-01	95-0274-02	254nm/White	9.8 x 3.8 x 2.5 in (249 x 97 x 65 mm)	2.5 lbs (1.14 kg)
			UVL-16	95-0272-01	95-0272-02	365nm/White		
			UVM-16	95-0273-01	95-0273-02	302nm/White		
			UVS-26	95-0277-01	95-0277-02	254nm		
			UVL-26	95-0275-01	95-0275-02	365nm		
EL Series - 6 Watt		UVM-26	95-0276-01	95-0276-02	302nm	12 x 3.8 x 2.5 in (305 x 97 x 65 mm)	3 lbs (1.36 kg)	
		UVLS-26	95-0279-01	95-0279-02	365/254nm			
		UVLM-26	95-0278-01	95-0278-02	365/302nm			
		UVS-18	95-0200-01	95-0200-02	254nm/White			
		UVL-18	95-0198-01	95-0198-02	365nm/White			
EL Series - 8 Watt		UVM-18	95-0199-01	95-0199-02	302nm/White	18.5 x 4.75 x 5 in (470 x 1221 127 mm)	10 lbs (4.6 kg)	
		UVS-28	95-0249-01	95-0249-02	254nm			
		UVL-28	95-0248-01	95-0248-02	365nm			
		UVM-28	95-0250-01	95-0250-02	302nm			
		UVLS-28	95-0201-01	95-0201-02	365/254nm			
Display - Grid - 25 Watt		UVLM-28	95-0251-01	95-0251-02	365/302nm	18.5 x 4.5 x 3.5 in (470 x 114 x 89 mm)	6.4 lb (3 kg)	
		UVLM S-38	95-0252-01	95-0252-02	365/302/254nm			
		UVGD-68	95-0026-07	95-0026-08	254nm			
		UVL-225D	95-0190-01	95-0190-02	365nm			
		UVS-225D	95-0191-01	95-0191-02	254nm			
Display - 25 Watt		UVLS-225D	95-0192-01	95-0192-02	365/254nm	19.75 x 6 x 4.25 in (501 x 152 x 102mm)	5 lb (2.3 kg)	
		UVM-225D	95-0189-01	95-0189-02	302nm			
		XX-15BLB	95-0042-06	95-0042-11	365nm Bl.B			
		XX-15L	95-0042-07	95-0042-13	365nm			
		XX-15M	95-0042-08	95-0042-15	302nm			
XX Series - 15 Watt		XX-15S	95-0042-05	95-0042-09	254nm			

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		UVL-4	95-0125-05	--	365nm					
		UVSL-14P	95-0188-02		254/365nm					
	Mini - 4 Watt		UVL-4F	95-0305-03	--	365nm/White	6.3 x 1 x 2.1 in (160 x 25 x 53 mm)	0.5 lb. (0.23 kg)		
			Recharge Portable - 6 Watt		ML-49	95-0011-01	--	365nm	9.5 x 2.8 x 9.4 in (241 x 71 x 238 mm)	4 lbs. (1.8 kg)
					UVG-47	95-0009-02	--	254nm		
	UVGL-48	95-0010-02			--	254/365nm				
	Recharge Portable - 6 Watt		UVL-26P	95-0186-01	95-0186-02	365nm	9.8 x 3 x 5.5 in (249 x 76 x 140 mm)	4 lbs. (1.8 kg)		
			UVS-26P	95-0187-01	95-0187-02	254nm				
			UVSL-26P	95-0181-01	95-0181-02	254/365nm				
	Display Lamps - A/C Powered Models - Hand Lamps		UVG-11	95-0016-14	95-0016-15	254nm	7.8 x 2.8 x 2.1 in (198 x 71 x 53 mm)	1 lb (0.45 kg)		
			UVGL-15	95-0017-09	95-0017-10	254/365nm				
UVL-21			95-0018-02	95-0018-03	365nm					
UVL-23R			95-0019-01	95-0019-03	365nm					
UVGL-25			95-0021-12	95-0021-10	254/365nm					
Compact - 6 Watt			UVG-54	95-0004-09	95-0004-10	254nm	14.9 x 3.2 x 2.5 in (378 x 81 x 64 mm)	2 lbs. (0.91 kg)		
			UVGL-55	95-0005-05	95-0005-06	254/365nm				
			UVL-56	95-0006-02	95-0006-03	365nm				
			UVM-57	95-0104-01	95-0104-02	302nm				
			UVGL-58	95-0007-05	95-0007-06	254/365nm				
Handheld - 6 Watt			UVS-14	95-0266-01	95-0266-02	254nm/White	14.8 x 3.8 x 2.5 in (376 x 97 x 65 mm)	2 lbs. (0.91 kg)		
			UVL-14	95-0264-01	95-0264-02	365nm/White				
			UVS-24	95-0269-01	95-0269-02	254nm				
			UVL-24	95-0267-01	95-0267-02	365nm				
			UVLS-24	95-0271-01	95-0271-02	365/254nm				
EL Series - 4 Watt			UVS-16	95-0274-01	95-0274-02	254nm/White	9.8 x 3.8 x 2.5 in (249 x 97 x 65 mm)	2.5 lbs. (1.14 kg)		
			UVL-16	95-0272-01	95-0272-02	365nm/White				
			UVM-16	95-0273-01	95-0273-02	302nm/White				
			UVS-26	95-0277-01	95-0277-02	254nm				
			UVL-26	95-0275-01	95-0275-02	365nm				
			UVM-26	95-0276-01	95-0276-02	302nm				
			UVLS-26	95-0279-01	95-0279-02	365/254nm				
UVLM-26		95-0278-01	95-0278-02	365/302nm						
EL Series - 6 Watt			UVS-18	95-0200-01	95-0200-02	254nm/White	12 x 3.8 x 2.5 in (305 x 97 x 65 mm)	3 lbs. (1.36 kg)		
	UVL-18		95-0198-01	95-0198-02	365nm/White					
	UVM-18		95-0199-01	95-0199-02	302nm/White					
	UVS-28		95-0249-01	95-0249-02	254nm					
	UVL-28		95-0248-01	95-0248-02	365nm					
	UVM-28		95-0250-01	95-0250-02	302nm					
	UVLS-28		95-0201-01	95-0201-02	365/254nm					
	UVLM-28		95-0251-01	95-0251-02	365/302nm					
	UVLM S-38		95-0252-01	95-0252-02	365/302/254nm					
	EL Series - 8 Watt			UVGD-68	95-0026-07	95-0026-08			254nm	18.5 x 4.75 x 5 in (470 x 1221 127 mm)
Display - 25 Watt				UVL-225D	95-0190-01	95-0190-02	365nm	18.5 x 4.5 x 3.5 in (470 x 114 x 89 mm)	6.4 lb (3 kg)	
				UVS-225D	95-0191-01	95-0191-02	254nm			
				UVLS-225D	95-0192-01	95-0192-02	365/254nm			
				UVM-225D	95-0189-01	95-0189-02	302nm			
Display - 25 Watt		XX-15BLB	95-0042-06	95-0042-11	365nm BLB	19.75 x 6 x 4.25 in (501 x 152 x 102mm)	5 lb (2.3 kg)			
		XX-15L	95-0042-07	95-0042-13	365nm					
		XX-15M	95-0042-08	95-0042-15	302nm					
		XX-15S	95-0042-05	95-0042-09	254nm					
		XX Series - 15 Watt								