

Ultraviolet lamp

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A mercury discharged lamp in quartz glass designed to produce ultraviolet light for exciting luminescence in gem minerals specially diamonds. The long-wave lamp is provided with wood's glass filter to emit wavelengths between 400 nm and 300 nm. To obtain short-wave wavelengths a low pressure mercury lamp, which emits lines at 253.7 nm by means of a suitable filter or a Chance OX7 filter. Mostly ultraviolet lamps are provided with combination of both SWUV and LWUV.

See Alexandrite Tsarstone collectors guide, Definition of Ultraviolet lamp, <http://www.alexandrite.net/viewpage.html?id=GG-080-00004> (A mercury discharged lamp in quartz glass designed to produce ultraviolet light for exciting luminescence in gem minerals specially diamonds. The long-wave lamp is provided with wood's glass filter to emit wavelengths between 400 nm and 300 nm. To obtain short-wave wavelengths a low pressure mercury lamp, which emits lines at 253.7 nm by means of a suitable filter or a Chance OX7 filter. Mostly ultraviolet lamps are provided with combination of both SWUV and LWUV.) (as of).