

**Corporate Headquarters: UVP, Inc.**  
2066 W. 11th Street, Upland, CA 91786  
Telephone: (800)452-6788 or (909)946-3197  
E-Mail: [uvp@uvp.com](mailto:uvp@uvp.com)

**European Operations: Ultra-Violet Products Limited**  
Unit 1, Trinity Hall Farm Estate, Nuffield Road  
Cambridge CB4 1TG UK Tel: +44(0)1223-420022  
E-Mail: [uvpuk@uvp.com](mailto:uvpuk@uvp.com)

## USE OF ULTRAVIOLET LIGHT IN REPAIRING DAMAGED WINDSHIELDS

**APPLICATION:** Windshield Repair

**WAVELENGTHS/  
LAMPS USED:** Longwave 365nm  
UVL- 23R (12V); UVL-21, UVL -56,  
B -100AP (115V or 230V)

**FIELD OF USE:** Automotive Glass Repair



**BACKGROUND:** Highway hazards such as flying rock or other debris often take a toll on automobile in the form of small (bullet type) holes or cracks. In many cases, these imperfections can be quickly and inexpensively repaired with a UV curable acrylic resin and a UVP longwave ultraviolet lamp while the window remains in the car. The resulting repair is stronger than the surrounding windshield and, in most cases, very difficult to detect.

**PROCEDURE:** The damaged area is cleaned and the UV curable resin is injected into the hole or crack with an air-powered injector nozzle that is attached to the outside of the window with suction cups. Injection of the resin in this manner forces resin into minute fissures in the window and displaces any air, effectively eliminating optical imperfections. The resin is cured with UVL-23R, UVL-21, UVL-56 or B-100AP longwave lamp. The UVL-23R plugs into the automobile cigarette lighter and is attached to the inside of the window with suction cups (suction cups not included with the lamp). Curing time is approximately 15 minutes for UVL lamp models. For a quick cure (30 seconds) the high-intensity B-100AP is recommended.

**PRIMARY ADVANTAGES  
OF THIS METHOD:** UV cure windshield repair adequately conceals and prevents further deterioration of most small holes or cracks with a substantial cost and time savings over windshield replacement.