Specifications
The Traffic Signal Safety Spectrum Analyzer™ (BPI# 119508) is an invaluable aid for quality control of lenses tinted with visible light treatments. The meter may be used for fashion tint control and for critical density adjustments on therapeutic tints such as BPI Diamond Dye™ 500/550 and Diamond Dye™ 540. It may also be used to check for UVA blocking. It may also be used for traffic signal color density checks, and general filter level checks.

Variations in density and hardness of CR-39™ lenses typically affect the ability to accept dye. Two lenses that have been in the same dye tank at the same amount of time may not come out with the same tint - either in density or color balance.

The meter's digital display indicates the percentage of light passing through a lens in the red (610nm), yellow (580nm), green (538nm), and blue (470nm) range. It also displays a white light (visible) reading as well as a UV reading. It is a quick and accurate way to check the transmission characteristics of lenses.

The system requires 115 volt (220 volt BPI#2119508), 50/60 Hz and is fuse protected by a 1 amp, 250 volt glass fuse. Components are UL and CSA recognized.

NOTE: Always use the ground wire on the power cord for safe operation; do not ever bypass it.

Filter Levels
This Analyzer has been designed to determine if tinted lenses meet EC standards for traffic signal safety as outlined in ISO 14889, ISO DIS 8980-3 and ISO 13666.

5 Filter Level LED's are located on the left of the instrument. One LED comes on and stays on. This indicates the filter level of the lens has been achieved. The LED's are illuminated in order of intensity from 5, 4, 3, 2, 1.

For use only by qualified personnel in a laboratory environment. For maximum protection against UVA energy, wear UV safety glasses & avoid looking directly at UV light source.