

**We design, manufacture & sell LED retrofit kits for vintage microscopes**



**Fewer companies are manufacturing these bulbs leaving us to rely on old stock that is vanishing from the market.**

- Avoid the hassles of tracking down rare bulbs.
- Save your last bulb by using this new alternative source.
- Our retrofit kit can provide the illumination you need to keep your vintage microscope in good service.
- Long lasting 50,000 hour rating **in cool or warm white.**

**3D printing manufacturing has the advantage of low cost customization**



Each illuminator assembly is a 3D printed plastic body encapsulating the electronic and heat sink core. This design is a technique that allows us to accurately fit a variety of vintage scopes with a reliable system at reasonable price.

We have designed these LED kits to fit a variety of scopes. Visit our web site [www.retrodiode.com](http://www.retrodiode.com) and see if we have your model.

3D printing, design and production techniques allows us to offer custom designs to fit our LED illuminator systems to your unique microscope. Just [contact us](#) for custom design work.

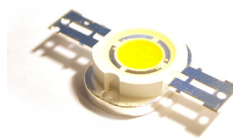
Outfitted with a high-power white light LED & dimmer control, this 800 lumen source can cover even the more photon hungry general applications such as oblique, epi, and dark field microscopy.

**These Kits require the use of the collector optic within the scope itself or the scopes lamp housing to give bright and even illumination.**

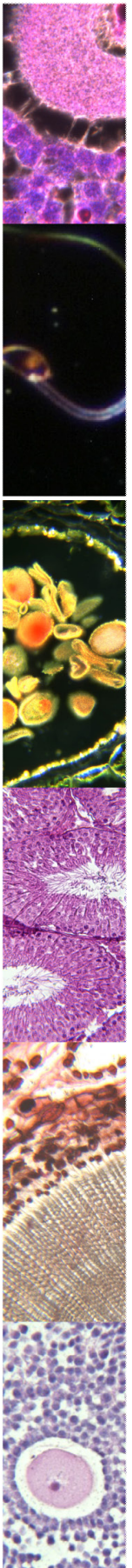
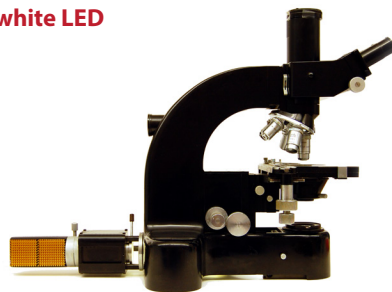
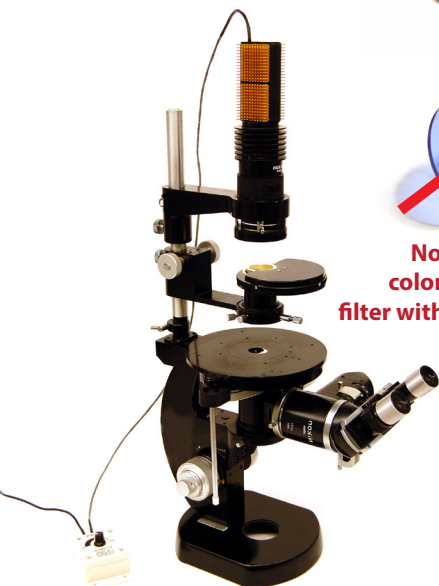
For the most light hungry applications , such as high magnification polarized, we offer our 20 watt versions **(coming soon)**

**The LED color temperatures currently offered is 6000K to 7000K cool white and 3000K to 3500K warm white. Other color temps will be coming available soon. You can request a color temperature for your application.**

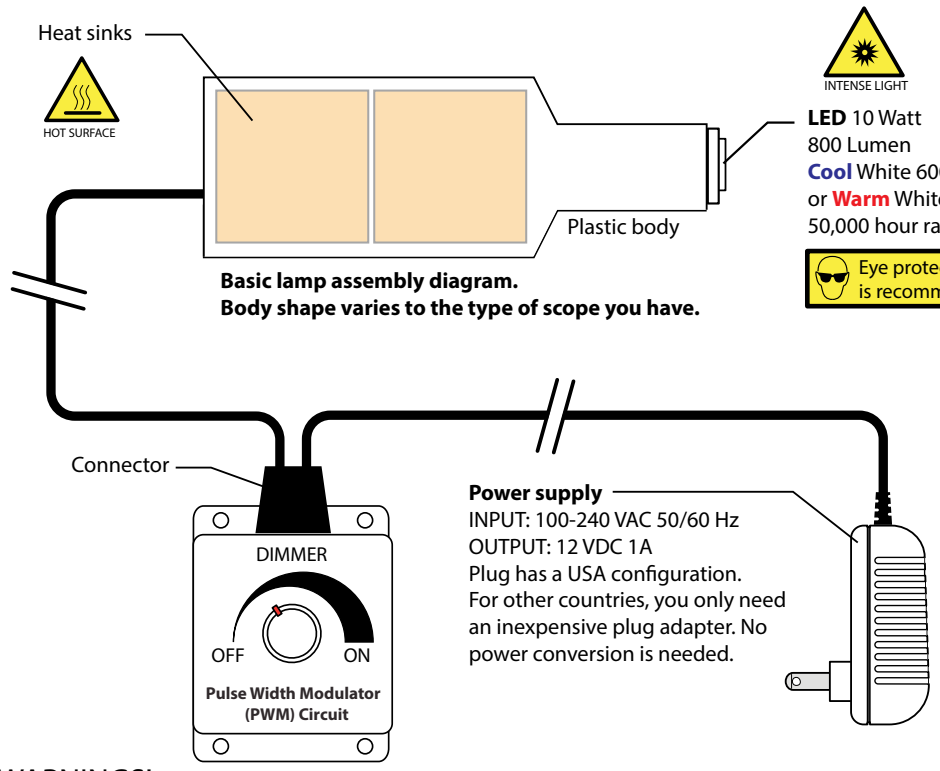
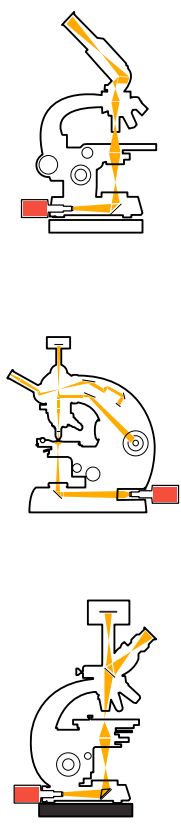
Be aware that some scopes already have a color correction filter or coatings to handle a warm incandescent light source. If you have a cool white LED Remember to remove this filter so your light is not excessively blue.



**No need for color correction filter with cool white LED**



## Retrofit Kit Information and Instructions Sheet Backed by a 90-day warranty against failure



### WARNINGS!



The heat sinks of your LED kit provide air cooling for the electronics in the lamp. They can get very warm. Avoid touching the heat sinks while in operation. Keep the entire lamp away from anything that may be affected by heat. Do not cover or restrict contact with the air.

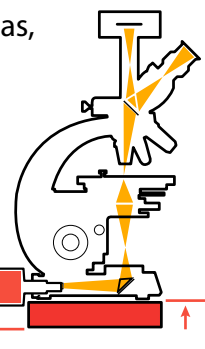
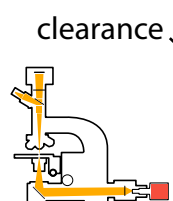
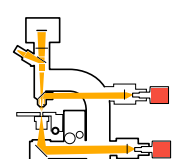
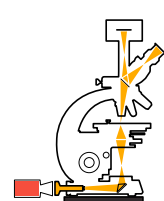
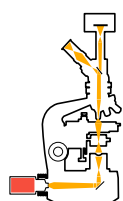
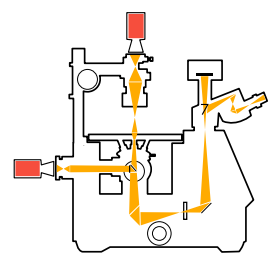
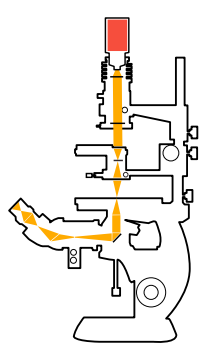


The LED light source is an extremely bright 800 lumen source that can harm the naked eye. Use caution when in operation. Proper eye protection is recommended.

This electronic product is intended for indoor use. Keep away from water and extreme humidity.

Installation of the device is similar to your original scope's light source. If your scope has a port or a dovetail mount, the lamp will plug in the same way as the original bulb and socket. For more information, visit: [www.retrodiode.com](http://www.retrodiode.com)

Microscopes with a shallower base, like Zeiss Standard and some Jenas, may need to be set on something to allow room to clear the lamp's heatsink. Note: **For the 10z port mounts this has been overcome with the 10z-II design.**



Not needed with 10z-II