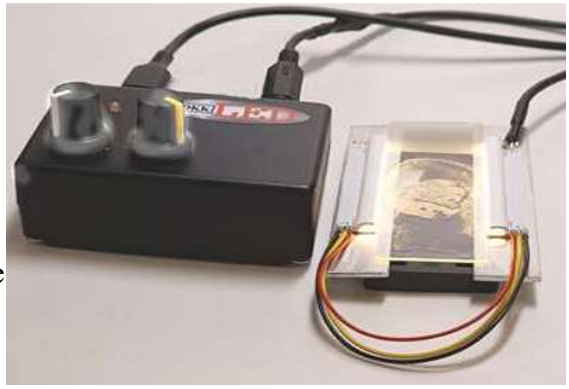
Manual for two tone white IGD

IGD stands for In Glass Dark Field, the material on the slide is mostly illuminated from the side. The thickness of the material therefore determines how the microscope perceives the image.
Very thin and flat specimens, or those under a cover glass, will yield less results.
The IGD is composed of two white tones, cool white and warm white, each with its own control knob.
The adjustment knobs allows a simple mix of both whites, making it possible to reproduce the original sample color or a pleasant display of the sample material.





Connect the IGD light module with its plug to the dimmer and connect the dimmer with the USB C cable to a working USB port (charger/PC/laptop, etc.). The set is turned on with the button near the indicator light, turn clockwise (CW) to turn **on**, counterclockwise (CCW) to turn **off.**

The knobs of the dimmer control from 0 (and slightly below) to maximum light output of the strips.
The switch on the dimmer does not interrupt the USB power. (unplug / turn off PC)

Place the light module in the object clamp of the microscope (due to its thickness, you first need to lower the stage slightly using the focus knob). Place the specimen between the two strips, check that the glass is free and flat on the holder (and not on the edge of one of the strips).

You can now refocus the microscope on the specimen, and continue to use the microscope as usual. If you are bothered by the cord during use, you can also place the module the other way around in the object clamp (cord on the other side of the microscope).

When the microscope's own light is off, the background of the specimen in the IGD will be black, so dark field; lowering the condenser sometimes gives fewer reflections and makes the background slightly darker.
With a little bit of light from the microscope itself, the image can show a very different result.
Optionally using colored filters on the light output of the microscope also gives surprising results.
Even polarization together with the IGD is easy to apply. Phase contrast will not work (well) due to the elevated position of the specimen (still, try the effect, who knows?).

The IGD is an idea and construction of TDKK, we have done our best to combine a user-friendly design with a unique image. An RGB color version of the IGD is also available.



Designed and built by TDKK, see tdkk.nl mail info@tdkk.nl