

# Digital Camera, model ref POF 010 810

## Composition

- 1 digital camera model
- 1 lens, adjustable focus
- 1 lens, fixed focus
- 1 complete software, operating with Windows
- 1 USB cable
- 1 Ø 10-mm rod
- Complete documentation



## Presentation

The digital camera pedagogical model can be used with a Ø 10-m rod or a standard camera stand. With it, you can model the functioning of a Reflex digital camera.

It is supplied with a specific software program. The electric supply is done directly by the computer, via USB port. You can take picture up to 3 millions pixels, set the white balance, the contrasts, use a digital zoom up to x5, etc...

You can also visualize Bayer filter and display either only the green pixels, or only the blue, or only the red ones or a mix of those.

With the lens settings, you will understand field depth, digital aperture principle ...

It is also possible to adjust the sensor position and thus, make a parallel with the 1<sup>st</sup> bellows camera.

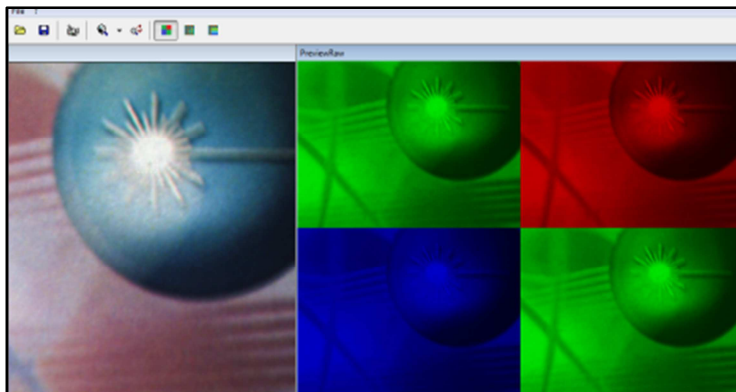
A system for the image reflection allows to aim with the eye and to understand the « reflex » aim principle.

## Performances

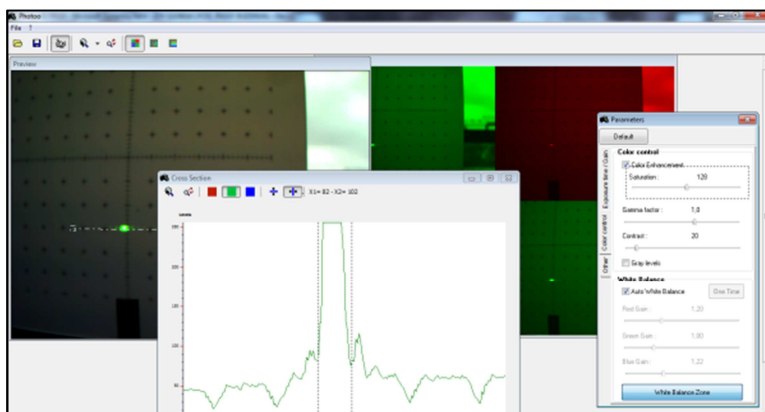
- Sensor : 3 million pixels
- Pentax lens, with a fixed 50-mm focus,
- Pentax lens, with a 28 to 70-mm focus

## Some examples of manipulations...

### Bayer filter



### Intensity profile



## CURRICULA :

- **Focus, aperture, time exposure**
- **Field depth, magnification**
- **Sensor, sensibility and accuracy**

FRENCH CONCEPTION AND MANUFACTURING.