**VISIBLE SPECTRUM**

Range: 400 nm-700 nm

**HARDWARE AND SOFTWARE ELEMENTS**

1. Light source: multiple aligned lasers
2. Confocal pinholes
3. Filter
4. Aperture
5. Beam splitter
6. Ellipsometer
7. Detector
8. Focal lens
9. X-y beam scanning system
10. Display
11. ADC, CPU

**PRINCIPLES OF ACQUISTION**

The probing beam was split into two or more beams by a beam splitter, then for more accuracy, it is passed to x-y beam scanning system and then to the fovea of the eye. Here the refraction takes place, then passes through the detector and to the CPU, then the image is displayed in the Computer.

**APPLICATIONS IN BIOMEDICAL IMAGING**

Visible Spectrum is used for retinal scanning and imaging.

Here, the rods act as a sensor and it detects light. When a photon reaches the transparent cornea and then through the lens which refracts and focuses on the retina, where the light is absorbed by photoreceptors: rods and cones.