Claims:

1. A vision system for inspection of ophthalmic lenses transported in an automatic production line comprising:

a plurality of Illuminating modules to illuminate the ophthalmic lens that emit light comprising different light technique;

a plurality of beam splitters for guiding the plurality of illumination to highlight the ophthalmic lens;

a plurality of beam splitters for receiving a plurality of conditioned images of the ophthalmic lens;

a plurality of filters for filtering the images of appropriate method;

a plurality of optical modules to acquire plurality of images of the ophthalmic lens, each of the plurality of the optical elements conditioning the image to enhance contrast of different defects of the ophthalmic lens;

a plurality of optical detectors to receive filtered and conditioned images;

a lens holder to transport the ophthalmic lens;

a image analyzing equipment to process and analyze the plurality of images for defects in the ophthalmic lens;

2. A vision system according to claim 1, wherein the light emitted by the illumination modules maybe in the i) visible spectrum, ii) infrared spectrum or the ultra violet spectrum.

3. A vision system according to claim 2, wherein each illumination module is configured to provide i) narrow beam ii) diverging beam or a wide angle illumination.

~~3.~~4. A vision system according to any one of claims 1 to 3, wherein the beam splitters each can be dichroic splitters.

~~4.~~5. A vision system according to any one of claims 1 to 4, wherein the plurality of optical modules, each optical module consisting of a combination of lenses.

~~5.~~6. A vision system according to claim ~~5~~4, wherein each lens in the optical module has a predetermined magnification different from one another.

~~6.~~7. A vision system according to claim ~~5~~4, wherein each optical module is provided with a wavelength filter to filter appropriate wavelength of illumination.

~~7.~~8. A vision system according to any one of claims 1 to 7, wherein the optical detector is a CCD monochrome camera.

~~8.~~9. A vision system according to claim ~~8~~7, wherein each camera is provided with an aperture.

~~9.~~10. A vision system according to claim ~~9~~8, wherein a bigger aperture is provided for Bright filed imaging.

~~10.~~11. A vision system according to claim ~~9~~8, wherein a smaller aperture is provided for increasing focal depth.

~~11.~~12. A vision system according to any one of claims 1 to 11, wherein the lens is located in a holder.

~~12.~~13. A vision system according to claim 1~~2~~1, wherein the lens is suspended in saline solution or similar liquid.

~~13. A vision system according to claim 2, wherein each illumination module is configured to provide i) narrow beam ii) diverging beam or a wide angle illumination.~~