CLAIMS

1. A system for inspecting a specimen, the system comprising an illumination device for disposing the specimen thereon, the illumination device comprising a plurality of light sources for illuminating the specimen,

wherein the light substantially permeates the illumination device;

wherein the light substantially permeates an interface between the illumination device and the specimen, the light entering into and scattering within the specimen; and

wherein the light substantially reflects off other interfaces of the illumination device.

2. The system as in claim 1, the specimen comprising a histological tissue sample.

3. The system as in claim 2, wherein the histological tissue sample is at least one of transparent and turbid.

4. The system as in claim 1, the illumination device further comprising an integrated control circuit and a battery source.

5. The system as in claim 1, the illumination device further comprising two opposing sides, wherein each side comprises at least one light source from the plurality of light sources.

6. The system as in claim 1, wherein each of the plurality of light sources comprises a light-emitting diode (LED).

7. The system as in claim 1, wherein the illumination device is made from a translucent material.

8. The system as in claim 7, wherein the translucent material is glass.

9. The system as in claim 1, the illumination device further comprising a microscope slide.

10. The system as in claim 1, the other interfaces being between the illumination device and air.

11. The system as in claim 1, further comprising a camera device for capturing an image of the specimen.

12. The system as in claim 11, the camera device capturing the image with a field of view substantially encompassing the specimen.

13. The system as in claim 1, the image being at least one of transmittable to and displayable on a computing device, wherein the image is displayable on the computing device as a digital image preview of the specimen.

14. The system as in claim 13, further comprising a grid superimposed on the digital image preview, each location in the grid corresponding to a portion of the digital image preview, wherein each portion of the digital image preview is at least one of selectable and magnifiable.

15. A method for inspecting a specimen, the method comprising:

providing an illumination device comprising a plurality of light sources for illuminating the specimen;

disposing the specimen on the illumination device;

capturing an image of the specimen with a camera device,

wherein the light substantially permeates the illumination device;

wherein the light substantially permeates an interface between the illumination device and the specimen, the light entering into and scattering within the specimen; and

wherein the light substantially reflects off other interfaces of the illumination device.

16. The method as in claim 15, wherein the specimen comprises a histological tissue sample.

17. The method as in claim 16, wherein the histological tissue sample is at least one of transparent and turbid.

18. The method as in claim 15, wherein the illumination device further comprises an integrated control circuit and a battery source.

19. The method as in claim 15, wherein the illumination device further comprises two opposing sides, each side comprising at least one light source from the plurality of light sources.

20. The method as in claim 15, wherein each of the plurality of light sources comprises a light-emitting diode (LED).

21. The method as in claim 15, wherein the illumination device is made from a translucent material.

22. The method as in claim 21, wherein the translucent material is glass.

23. The method as in claim 15, the illumination device further comprising a microscope slide.

24. The method as in claim 15, the other interfaces being between the illumination device and air.

25. The method as in claim 15, further comprising providing a camera device for capturing an image of the specimen.

26. The method as in claim 25, further comprising capturing the image with a field of view substantially encompassing the specimen.

27. The method as in claim 15, further comprising at least one of:

transmitting the image to a computing device; and

displaying the image on the computing device,

wherein the image is displayed on the computing device as a digital image preview of the specimen.

28. The method as in claim 27, further comprising at least one of:

selecting each portion of the digital image preview; and

magnifying each portion of the digital image preview,

wherein each portion of the digital image preview corresponds to a location in a grid; and

wherein the grid is superimposed on the digital image preview.