CLAIMS

1. A base for receiving an ophthalmic lens storage case for storing one or more ophthalmic lenses, the base comprising:

a receptacle for receiving an ophthalmic lens storage case; and

a source of disinfecting radiation providing disinfecting radiation to surface of the ophthalmic lens storage case.

2. The base of claim 1 additionally comprising a reflective surface for reflecting disinfecting radiation towards ophthalmic lens storage compartment.

3. The base of claim 1 additionally comprising a sensor capable of sensing an amount of disinfecting radiation and a feedback loop capable of controlling an amount of radiation emitted by the source of disinfecting radiation.

4. The base of claim 1 source of disinfecting radiation comprises one or more electronic components.

5. The base of claim 4 wherein at least some of the one or more electronic components is aligned above a cap comprising a lens storage case.

6. The base of claim 5 wherein at least some of the one or more electronic components is aligned below a lens holder comprising a lens storage case.

7. The base of claim 6 wherein the one or more sources of disinfecting radiation comprise an ultraviolet emitting diode.

8. The base of claim 7 wherein the ultraviolet emitting diode emit radiation in a frequency of between 250 nanometers and 280 nanometers.

9. The base of claim 1 wherein the emitted disinfecting radiation is sufficient kill an organism on surface of the ophthalmic lens storage case.

10. The base of claim 1 additionally comprising an optic for directing disinfecting radiation towards the ophthalmic lens storage case.

11. The base of claim 1 additionally comprising a processor for controlling the generation of disinfecting radiation.

12. The base of claim 11 wherein a time period that a disinfecting radiation is provided is based upon a logical control signal generated by the processor.

13. The base of claim 11 wherein an intensity at which a disinfecting radiation is provided is based upon a logical control signal generated by the processor.

14. The base of claim 11 additionally comprising an audio component operative to provide an audio signal based upon operation of the source of disinfecting radiation.

15. The base of claim 11 additionally comprising a display for displaying a status of a disinfecting process based upon digital data transmitted by the processor.

16. The base of claim 11 additionally comprising a digital storage for storing information related to a disinfecting process.

17. The base of claim 1 additionally comprising a vibration generation device for providing mechanical movement to a storage case placed in the storage base.

18. The base of claim 17 wherein the vibration generation device comprises a piezoelectric mechanism.

19. The base of claim 17 wherein the piezoelectric mechanism is operated based upon a logical signal generated by a processor.

20. The base of claim 16 additionally comprising a universal serial bus connector for providing logical communication between one, or both of: the processor and the digital storage; and personal processing device.

21. The base of claim 16 additionally comprising a universal serial bus connector for providing an electrical current for operating the storage base.

22. The base of claim 1 additionally comprising an electrical storage for storing power to operate the storage base.

23. The base of claim 22 wherein the electrical storage comprises one or more rechargeable batteries.

24. The base of claim 23 wherein the electrical storage comprises one or more lithium ion batteries.

25. The base of claim 12 wherein a pattern of radiation is based upon a signal from the processor.

CLAIMS

1. An ophthalmic lens disinfecting system, the system comprising:

a radiation disinfecting base unit having an upper section and a lower section;

multiple disinfecting radiation source light emitting diodes mounted to at least one of the upper section and the lower section, the multiple disinfecting radiation source light emitting diodes configured to emit radiation in the range of 250 to 280 nanometers;

a storage case mountable within the radiation disinfecting base unit and configured to secure at least one contact lens therein, the storage case comprising at least one radiation window, the storage case being positioned within the path of radiation such that the storage case and the contact lens are exposed to the emitted radiation;

a positioning artifact configured to align the multiple disinfecting radiation source light emitting diodes and the storage case;

electronic circuitry mounted to the lower section and configured for controlling an operation of the ophthalmic lens disinfecting system, the electronic circuitry including a processor and associated memory and a power source;

a scanner configured to scan the contact lens and to log disinfecting information associated with the contact lens including a time of disinfection; and

a vibration generation device for importing vibrational motion to facilitate disinfection, the vibration generation device including a piezoelectric transducer, wherein the radiation disinfecting base unit is configured to disinfect both the storage case and the contact lens.

2. The ophthalmic lens disinfecting system of claim 1, wherein the upper section and the lower section of the radiation disinfecting base unit comprise a clamshell type configuration.

3. The ophthalmic lens disinfecting system of claim 1, wherein the multiple disinfecting radiation source light emitting diodes emit the radiation directly toward the contact lens.

4. The ophthalmic lens disinfecting system of claim 1, wherein the storage case comprises a fastening mechanism to removable secure a cap.

5. The ophthalmic lens disinfecting system of claim 1, wherein the storage case includes the positioning artifact.

6. The ophthalmic lens disinfecting system of claim 5, wherein the positioning artifact comprises a depression for receiving the multiple disinfecting radiation source light emitting diodes.

7. The ophthalmic lens disinfecting system of claim 5, wherein the positioning artifact aligns the multiple disinfecting radiation source light emitting diodes in a position generally orthogonal to a top surface of the storage case.

8. The ophthalmic lens disinfecting system of claim 1, wherein the storage case comprises at least one storage compartment configured to store the contact lens.

9. The ophthalmic lens disinfecting system of claim 8, wherein the storage compartment comprises the radiation window.

10. The ophthalmic lens disinfecting system of claim 8, wherein the storage compartment comprises an alignment mechanism to position the contact lens in the storage compartment.

11. The ophthalmic lens disinfecting system of claim 10, wherein the alignment mechanism aligns the contact lens with the path of radiation.

12. The ophthalmic lens disinfecting system of claim 1, wherein the storage case comprises at least one reflective surface to reflect the emitted radiation.

13. The ophthalmic lens disinfecting system of claim 1, wherein the radiation window is at least partially transparent.

14. The ophthalmic lens disinfecting system of claim 1, wherein the radiation window is one of cyclic olefins, TOPAS, ZEONOR or other injection moldable plastics.

15. The ophthalmic lens disinfecting system of claim 1, wherein the vibration generation device operates at a frequency effective to remove dead organisms from the surface of the contact lens.