What is claimed is:

1. An ophthalmic lens comprising:

a hydrogel portion, and

a communication system of said ophthalmic lens configured to transmit data associated with a pedigree profile of the ophthalmic lens to an external processor.

2. The ophthalmic lens of claim 1, wherein:

the communication system of said ophthalmic lens comprises a fractal nano-antenna configured to be an energy receptor and energize the communication system.

3. The ophthalmic lens of claim 1, wherein:

the communication system of said ophthalmic lens comprises a Yagi-Uda nano-antenna configured to be an energy receptor and energize the communication system.

4. The ophthalmic lens of claim 1, additionally comprising:

a unique identifier stored in the communication system of said ophthalmic lens.

5. The ophthalmic lens of claim 4, wherein:

the communication system of said ophthalmic lens comprises one or more nano-sensor(s) capable of providing sensor data corresponding to one or more manufacturing controlled condition(s).

6. The ophthalmic lens of claim 5, wherein:

at least a portion of the sensor data forms part of the unique identifier.

7. The ophthalmic lens of claim 6, wherein:

the unique identifier is encrypted to prevent unwanted replication.

8. The ophthalmic lens of claim 1, additionally comprising:

an encapsulant around the communication system of said ophthalmic lens.

9. The ophthalmic lens of claim 1, wherein:

the hydrogel portion of the ophthalmic lens includes a 20-70 percent silicon hydrogel composition.

10. The ophthalmic lens of claim 1, wherein:

the communication system of said ophthalmic lens is included in the optic zone of the ophthalmic lens.

11. An ophthalmic lens comprising:

a hydrogel portion, and

a media insert comprising a battery capable of energizing a communication system of said ophthalmic lens configured to transmit data associated with a pedigree profile of the ophthalmic lens to an external processor.

12. The ophthalmic lens of claim 11, wherein:

a unique identifier stored in the communication system of said ophthalmic lens.

13. The ophthalmic lens of claim 12, comprising:

one or more sensor(s) capable of providing sensor data corresponding to one or more manufacturing controlled condition(s).

14. The ophthalmic lens of claim 13, wherein:

at least a portion of the sensor data forms part of the unique identifier.

15. The ophthalmic lens of claim 14, wherein:

the unique identifier is encrypted to prevent unwanted replication.

16. The ophthalmic lens of claim 1, wherein:

the hydrogel portion of the ophthalmic lens includes a 20-70 percent silicon hydrogel composition.

17. The ophthalmic lens of claim 1, wherein:

significantly opaque components of the communication system of said ophthalmic lens are supported by at least a portion of the media insert outside of the optic zone of the ophthalmic lens.

18. A method of providing an ophthalmic lens pedigree profile comprising:

energizing a communication system forming part of the ophthalmic lens;

transmitting data relating to a unique identifier to a processor in communication with the communication system;

generating a lens pedigree profile and correlating it to the unique identifier; and

recording a signal in the communication system that allows access to a database containing the lens pedigree profile.

19. The method of claim 18, wherein:

the recorded signal is encrypted to prevent unwanted replication.

20. The method of claim 18, wherein:

the pedigree profile includes one or both lens design information and manufacturing controlled process condition(s) information.

What is claimed is:

1. An ophthalmic lens comprising:

a hydrogel portion, and

a communication system of said ophthalmic lens configured to transmit data associated with a pedigree profile of the ophthalmic lens to an external processor.

2. The ophthalmic lens of claim 1, wherein:

the communication system of said ophthalmic lens comprises a fractal nano-antenna configured to be an energy receptor and energize the communication system.

3. The ophthalmic lens of claim 1, wherein:

the communication system of said ophthalmic lens comprises a Yagi-Uda nano-antenna configured to be an energy receptor and energize the communication system.

4. The ophthalmic lens of claim 1, additionally comprising:

a unique identifier stored in the communication system of said ophthalmic lens.

5. The ophthalmic lens of claim 4, wherein:

the communication system of said ophthalmic lens comprises one or more nano-sensor(s) capable of providing sensor data corresponding to one or more manufacturing controlled condition(s).

6. The ophthalmic lens of claim 5, wherein:

at least a portion of the sensor data forms part of the unique identifier.

7. The ophthalmic lens of claim 6, wherein:

the unique identifier is encrypted to prevent unwanted replication.

8. The ophthalmic lens of claim 1, additionally comprising:

an encapsulant around the communication system of said ophthalmic lens.

9. The ophthalmic lens of claim 1, wherein:

the hydrogel portion of the ophthalmic lens includes a 20-70 percent silicon hydrogel composition.

10. The ophthalmic lens of claim 1, wherein:

the communication system of said ophthalmic lens is included in the optic zone of the ophthalmic lens.

11. An ophthalmic lens comprising:

a hydrogel portion, and

a media insert comprising a battery capable of energizing a communication system of said ophthalmic lens configured to transmit data associated with a pedigree profile of the ophthalmic lens to an external processor.

12. The ophthalmic lens of claim 11, wherein:

a unique identifier stored in the communication system of said ophthalmic lens.

13. The ophthalmic lens of claim 12, comprising:

one or more sensor(s) capable of providing sensor data corresponding to one or more manufacturing controlled condition(s).

14. The ophthalmic lens of claim 13, wherein:

at least a portion of the sensor data forms part of the unique identifier.

15. The ophthalmic lens of claim 14, wherein:

the unique identifier is encrypted to prevent unwanted replication.

16. The ophthalmic lens of claim 11, wherein:

the hydrogel portion of the ophthalmic lens includes a 20-70 percent silicon hydrogel composition.

17. The ophthalmic lens of claim 11, wherein:

significantly opaque components of the communication system of said ophthalmic lens are supported by at least a portion of the media insert outside of the optic zone of the ophthalmic lens.

18. A method of providing an ophthalmic lens pedigree profile comprising:

energizing a communication system forming part of the ophthalmic lens;

transmitting data relating to a unique identifier to a processor in communication with the communication system;

generating a lens pedigree profile and correlating it to the unique identifier; and

recording a signal in the communication system that allows access to a database containing the lens pedigree profile.

19. The method of claim 18, wherein:

the recorded signal is encrypted to prevent unwanted replication.

20. The method of claim 18, wherein:

the pedigree profile includes one or both lens design information and manufacturing controlled process condition (s) information.