"Understanding Magnification in Optometry: Types, Applications, and Impact on Visual Function"

SUMIT MAITY

SWAMI VIVEKANANDA UNIVERSITY

Magnification is a cornerstone of low vision care in optometry, offering practical solutions for patients with reduced visual acuity when conventional corrective lenses fall short. This presentation explores the science and clinical application of magnification, with a special focus on its various types: relative size magnification, relative distance magnification, angular magnification, projection magnification, and electronic magnification. Each type will be explained in terms of its principles, advantages, limitations, and real-world use cases.

Attendees will gain insight into how optometrists select and tailor magnification strategies based on individual patient goals, lifestyle demands, and ocular conditions. The presentation also highlights key considerations such as field of view, working distance, depth of focus, binocular compatibility, and adaptation challenges. Case studies will illustrate how effective use of magnification—ranging from simple hand-held aids to advanced electronic devices—can significantly improve reading ability, mobility, and quality of life.

Whether you're a student, practitioner, or vision rehabilitation specialist, this session will deepen your understanding of magnification’s role in functional vision enhancement and provide practical guidance for integrating it into everyday clinical care.