

Deep Innovation Dossier: AdaptiFocus: Dynamic Vision Eyewear



Product Vision & Value Proposition: The Future of Sight

Vision: AdaptiFocus envisions a future where vision correction is invisible, instant, and perfectly tailored to every moment. It's the ultimate convergence of advanced health tech and high-end, fashion-forward design.

Core Solution: These are dynamic visual processors that intelligently adapt focal length and light filtering in milliseconds, ensuring maximum visual comfort whether reading a menu indoors or driving into strong sunlight.

Unique Selling Points (USPs):

- True All-in-One Correction: Replaces bifocals, progressives, reading glasses, and sunglasses in one premium device.
- Instant Adaptivity: Lenses transition electronically, eliminating the lag and visual distortion often associated with traditional photochromic or static progressive lenses.
- Smart Design Elements: Lightweight frames housing micro-batteries and embedded sensors, ensuring an aspirational aesthetic appeal.



Consumer & Market Impact: Seamless Living

Persona 1: The Active Professional (Ages 45-65)

Pain Point: Constantly switching between computer screens, paperwork, and outdoor settings, requiring multiple pairs of specialized glasses.

"Testimonial Style Quote:" "I can finally transition from my laptop to the golf course without missing a beat. This feels like cheating; true vision freedom."

Persona 2: The Multi-Tasking Retiree (Ages 65+)

Pain Point: Managing 3+ pairs of glasses; difficulties with traditional progressive lenses' narrow fields of view.

"Testimonial Style Quote:" "The clarity is instant, and I love not having to worry about leaving my sunglasses inside anymore. Complete peace of mind."

Persona 3 (Non-Obvious): Specialized Industrial/Medical Technicians

Pain Point: Inefficient workflow due to having to manually swap prescription or protective eyewear when switching focal points or light levels (e.g., viewing distant monitor then close components).

Early Market Beneficiaries: Tech-savvy consumers (early adopters) and the high-end B2B sector focused on occupational efficiency where precise, rapid focal changes are critical.



Feasibility Assessment: Technology & Commercial Maturity

Technological Readiness Level (TRL): 6 – System/subsystem model or prototype demonstration in a relevant environment.

Explanation: Core components (electro-active lenses, micro-sensors, power systems) exist. TRL 6 signifies that a functional, integrated prototype demonstrating accurate and reliable dual-adaptation (focal length and tint) can be tested in a controlled simulation of real-world use.

Next Stage (TRL 7): System prototype demonstration in an operational environment (e.g., extended field testing by controlled beta users outside the lab).

Business Readiness Level (BRL): 3 – Idea definition with a validated problem/solution fit.

Explanation: The customer pain points are well-documented (high prevalence of presbyopia). We have defined the concept, but require detailed market validation on pricing, optimal features (e.g., battery life), and regulatory pathways (medical device certification).

Next Stage (BRL 4): Developing a robust business case and performing initial commercial pilot studies with select strategic partners.



Phased Roadmap: Concept to Market Readiness

Phase 1 (0–6 Months): Minimum Viable Product (MVP) Development.

Focus: Functionality over form. Develop a robust prototype to reliably prove dynamic focal adjustment and photochromic shifting latency and accuracy. Secure preliminary regulatory clearances for lens components.

Parallel Business Validation: Establish preliminary manufacturing costs and set initial target retail price points (MVP cost analysis).

Phase 2 (7–12 Months): Targeted Field Trials and Miniaturization.

Focus: Refinement. Transition the electronics into a sleek, consumer-ready frame design. Conduct controlled field trials (100+ early adopters) focused on battery performance, comfort, and real-world durability.

Parallel Business Validation: Initiate discussions with leading optometry chains and insurance providers regarding integration and potential coverage models.

Phase 3 (13–18 Months): Iterative Refinements and Production Readiness.

Focus: Scale. Finalize the Bill of Materials (BOM) and optimize the supply chain. Address all major user interface issues. Conduct pre-launch stress tests simulating long-term daily use.

Parallel Business Validation: Develop tiered pricing models (standard vs. premium) and finalize channel partner agreements.



Strategic Launch & Market Integration: Establishing Market Leadership

Strategic Partnerships: Partner with high-end optical retailers to position AdaptiFocus as a premium, medically advanced device. Seek collaboration with major health insurers for potential subsidy programs.

Pilot Programs & Incentives: Launch a “Visionary Pioneer” program offering a substantial discount and white-glove support to the first 500 customers in exchange for detailed usage data and testimonials.

Distribution Channels: Initially focus on a D2C model through a dedicated platform, supported by authorized, specialist B2B optometry offices ensuring proper fitting and user training.

Macrotrend Alignment: AdaptiFocus directly serves the explosive demand for superior vision solutions tailored to the aging eye and fits into the growing trend of high-value, convenience-driven smart accessories, positioning it as the foundation for future AR/VR integrations.

Next Step: Initiate Phase 1 MVP development by securing specialized engineering talent for electro-active lens system miniaturization and finalizing provisional patents covering the dual-adjustment mechanism.