

Product Development Roadmap

	Phase 0 Feasibility	Phase 1 Breadboard / Risk Reduction	Phase 2 Development	Phase 3 Alpha / Beta Prototype	Phase 4 Transfer to Manufacturing	Phase 5 Pilot Build	Phase 6 Production
INPUTS	Business Requirements Research Results	Risk Analysis Design of Experiments	Technical Spec. v2 Development Plan	Critical Design Review (CDR) Approval Preliminary Verification	Verified Design	Manufacturing Readiness Review (MRR) Approval	Product Validation
	Feasibility Analysis Identify Risks Develop Technical Requirements	Experimental Breadboard Risk Reduction Preliminary Cost Analysis	Costed Bill of Materials Design for Manufacture	Works-like, Looks-like Prototype Engineering Verification (later phases)	Develop Production Process Develop Work Instructions	Product Validation Finalized Interface Control Document (ICD) Revision Control	
OUTPUTS	 Technical Spec. v1 System Architecture Risk Analysis	 Technical Spec. v2 Benchtop Demonstrator Cost Forecast	 Preliminary Design Review (PDR) CDR ICD	 Functional Prototypes (sophistication and quantity increase with phase)	 Qualified Supplier List Documentation Control MRR	 Field Trials Product Validation	 Production Units

Optikos follows a different product development process for medical devices and government contracts.