

1. INTENDED USE

The Model Alpha is intended for use by trained medical professionals.

Requires knowledge of: Computer Vision, Machine Learning, Python

Software stack: TensorFlow, OpenCV, real-time data pipelines

2. TECHNICAL REQUIREMENTS

Operating System: Linux / Windows

Programming Interface: Python 3.10+, REST API, API Design

Infrastructure: Docker, Kubernetes, AWS or Azure

Database: PostgreSQL for logging

3. SAFETY REQUIREMENTS

Software must be tested with unit testing and integration testing

Deployment via CI/CD pipelines only

Code versioned in Git with code review process

4. MAINTENANCE

Requires C# or Python engineers for firmware updates

Documentation in Swagger / OpenAPI format