

Non-Agentive AI Governance Singapore

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Non-Agentive AI 2.0™

Nightingale 3ZEROS™ Sanctuary

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Synopsis

This e-book presents the 3ZEROS™ Sanctuary specification — the foundational privacy architecture of Nightingale's Eyes Care™. Zero Camera: LiDAR point-cloud geometry only. Zero Audio: no microphone recording. Zero Cloud: all processing local, session memory purged every 24 hours.

The 3ZEROS™ standard treats privacy as physical architecture, not policy. The sanctuary cannot be violated by software update, administrative override, or commercial pressure. It is the protocol that makes Nightingale's Eyes Care™ safe to deploy at the bedside of the most vulnerable.

This is a standalone monograph intended for clinical governance practitioners, healthcare institutions, and AI safety researchers establishing constitutional privacy standards for eldercare environments under P-LIFE 1.00™.

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NIGHTINGALE 3ZEROS™ SANCTUARY: The Architecture of Constitutional Privacy in Eldercare

Prologue: Privacy as Physical Architecture

In the high-stakes environment of clinical eldercare, traditional software-based privacy policies are fundamentally insufficient. Policy is malleable, subject to human error, administrative pressure, or malicious intent. To truly protect the most vulnerable, we must transition from "privacy as a policy" to "privacy as physics." The NIGHTINGALE 3ZEROS™ Sanctuary codifies the spatial boundaries of the bedside, establishing an immutable safety zone where privacy is governed by the laws of hardware and spatial geometry rather than the whims of software code.

This architectural integrity is driven by the Mission Constant of P-LIFE 1.00™: **Harm = Death; North = Save Life**. This ethical mandate dictates that the preservation of life and the preservation of dignity are a singular, inseparable objective function. We must distinguish clearly between "monitoring"—a tool of the observer often predicated on a power imbalance—and "sanctuary," which is the inherent right of the observed. In a sanctuary, the technology exists solely to ensure safety without infringing upon personhood. By removing the technical capacity for surveillance at the source, we create a trust relationship that cannot be violated by a software update or unauthorized override. This structural foundation serves as the bedrock for the 3ZEROS™ Standard.

Part I: The 3ZEROS™ Standard — Constitutional Foundations

The strategic foundation of the Nightingale's Eyes Care™ system rests upon Constitutional Anchors—rigid frameworks sealed within the NLB Vault and protected under **Patent SG020603109STW** (Filed 5 February 2026). These anchors include the Framework 1.0 (Sealed 21 January 2026) and the V2.0 Extension (Sealed 4 February 2026), ensuring that the AI remains strictly "Non-Agentic." This governance, administered by **Non-Agentic AI Governance Singapore (ACRA T260229801)**, prevents the mission creep common in modern surveillance systems.

The 3ZEROS™ Standard—Zero Camera, Zero Audio, and Zero Cloud—must exist as a unified triad to ensure the integrity of the **NLB Publisher Vault R260219-005** specifications. This model is guided by the core values of the WISL™ Monographic series, presented here as a rigorous values matrix.

WISL™ Core Values Matrix

Value	Clinical Application
Humility (謙虛)	The AI recognizes its role as an assistant, never a replacement for human judgment.
Silence (沉默)	The system operates without intrusive recording or vocal interruptions.
Dignity (尊嚴)	Every data point is processed to respect the elder's physical and social identity.
Benevolence (仁)	The algorithmic objective function of every decision is the well-being of the subject.

Perfection (止於至善)	A commitment to the highest standards of safety and technical accuracy.
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As the Founding Father of Non-Agentive AI 2.0™, Edwin Koh Wui Kiat established the central operational logic of this architecture: "**AI observes. AI advises. AI builds. The Elder decides.**" This mandate ensures that while the AI constructs a safety net, the power of decision remains firmly human, leading directly to the first physical pillar: Zero Camera.

Part II: Zero Camera — LiDAR Point-Cloud Specification

The first pillar of the sanctuary replaces traditional RGB video with LiDAR (Light Detection and Ranging) point-cloud geometry. Traditional cameras are surveillance tools; they capture facial features, skin conditions, and identifying personal effects—data unnecessary for safety and prone to catastrophic breach.

The WM003 LiDAR sensor represents a strategic differentiator in non-surveillance environments. It operates on a "geometry only" standard, perceiving the subject as a collection of spatial coordinates. This hardware-level restriction ensures that visual identity recognition is technically impossible.

Technical Breakdown of Point-Cloud Utility:

- **Anonymity via Geometry:** The sensor generates a three-dimensional "cloud" of points that outlines a human form but lacks the resolution to reveal facial features.
- **High-Fidelity Gait Analysis:** While identity is hidden, the spatial fidelity is sufficient for sophisticated gait analysis and fall detection, identifying critical movements without identifying the person.
- **Data Immunity:** Should a breach occur, the exfiltrated data appears only as meaningless spatial noise. There is no visual identity to exploit.

This hardware-level restriction removes the possibility of data breaches revealing the elder's face or physical state, transitioning the environment from visual surveillance to pure spatial awareness.

Part III: Zero Audio — The Elder's Words Belong to the Elder

Acoustic privacy is the second pillar of the 3ZEROS™ Standard. In the NIGHTINGALE 3ZEROS™ Sanctuary, the absence of a microphone is a physical guarantee, not a software "mute" toggle. This ensures that the elder's private conversations, prayers, and intimate moments remain exclusively theirs.

We explicitly reject the Silicon Valley model of constant listening, which characterizes most "smart assistants" for seniors. Such systems create a persistent vulnerability by digitizing private speech for cloud processing. Nightingale's Eyes Care™ prioritizes clinical necessity over the convenience of voice commands, ensuring the bedside remains a space of acoustic sanctity.

The mandate—"AI observes. AI advises. AI builds. The Elder decides."—requires that the technology step back to allow the human relationship between elder and caregiver to flourish. Silence empowers the human over the machine, linking acoustic isolation directly to the sovereignty of the local environment.

Part IV: Zero Cloud — Local Processing and 24-Hour Purge

The Zero Cloud protocol mandates that all data processing occurs at the "edge" on local hardware. This is a strategic necessity to prevent the systemic data leaks and commercial exploitation of health data. By keeping data local, we collapse the attack surface and prevent the construction of longitudinal surveillance profiles or "digital twins."

To ensure absolute privacy, the sanctuary employs a **24-Hour Purge** mechanism. This session memory reset prevents the build-up of historical data that could be misused.

Zero Cloud Hardware Requirements:

1. **Local-Only Computation:** All algorithms must run on internal hardware; external data exfiltration for processing is forbidden.
2. **Zero Administrative Override:** Software updates are physically barred from enabling cloud-based administrative access to raw spatial data.
3. **Mandatory 24-Hour Reset:** The system hardware must trigger an automated purge of short-term spatial data every 24 hours to ensure a clean state.

These requirements ensure that health data cannot be commodified, leading to the quantitative verification of the sanctuary: the Elder Dignity Score.

Part V: Elder Dignity Score (EDS) — Measuring Non-Surveillance

The Elder Dignity Score (EDS) is a quantitative metric designed to assess the qualitative presence of privacy. While traditional systems measure uptime, the EDS is a deductive metric used by clinical governance practitioners to audit AI safety performance.

The EDS methodology assumes a baseline of 100 (Perfect Sanctuary). Points are deducted for every active sensor or unauthorized cloud-handshake detected during a governance audit. This allows institutions to provide transparent proof of their commitment to non-surveillance.

Elder Dignity Score Correlation Table

Adherence Level	Privacy Safeguards	Resulting EDS
Level 3 (Full 3ZEROS™)	LiDAR Geometry, Zero Mic, Local Edge Processing + Purge	100 (Sanctuary)
Level 2	LiDAR Geometry, Local Processing, but Cloud Metadata Logging	70 (Secure Monitoring)
Level 1	RGB Video Masking, Microphone Active, Cloud-Based Analysis	30 (High Surveillance)
Level 0	Unfiltered RGB Video, Constant Audio, Cloud Storage	0 (Non-Compliant)

The EDS serves as the primary metric for verifying that a clinical environment has successfully shifted from a surveillance ward to a sanctuary.

Part VI: Clinical Deployment Protocol

The deployment of Nightingale's Eyes Care™ within clinical workflows is governed by the principle that safety must never come at the cost of dignity. Implementation must be seamless, upholding the "North = Save Life" mission.

Deployment Protocol:

- **Spatial Mapping:** Using the WM003 LiDAR to establish a spatial baseline of the environment.
- **High-Integrity Access:** Staff access is managed via the **WM005 Iris Scanner**. Critically, this uses a non-biometric storage protocol, ensuring that no biometric database of practitioners is created, while still maintaining secure, non-transferable access control.
- **Governance Responsibility:** Clinical Governance Practitioners are tasked with maintaining the sanctuary's integrity under the P-LIFE 1.00™ framework, ensuring physical restrictions are never circumvented.

All deployments are strictly compliant with the legal and patent context of **ACRA T260229801** and **Patent SG020603109STW**, ensuring institutional adherence to Singapore's standards for Non-Agentive AI.

Appendices: Technical Hardware Specifications

These specifications represent the "physical laws" of the sanctuary and are immutable by software.

WM003 LiDAR Sensor Specification

The WM003 is the primary spatial awareness component.

- **Resolution:** Precision-tuned for gait and fall detection.
- **Restriction:** Hardware-incapable of capturing RGB data.
- **Output:** Geometric coordinates only; no visual imagery.

WM005 Iris Scanner Specification

The WM005 provides secure access control for clinical staff.

- **Function:** Ensures only authorized personnel access the local console.
- **Privacy Integrity:** Employs a non-biometric storage protocol. It identifies the user without storing their biometric signature in a reconstructible format, preventing the creation of a biometric database.

The mission of P-LIFE 1.00™ is

Absolute, Eternal, and Irrevocable.