

MODALITY

60 GHz FMCW radar through bedding — no contact, no line-of-sight

PRIVACY POSTURE

0 cameras · 0 wearables · 0 cloud audio. On-device on Raspberry Pi CM5

GRANT PATHWAY

NINDS STTR R41 — submitting Sept 2026

CLINICAL SITE

UVA Epilepsy Monitoring Unit · Dr. Mark Quigg, multi-PI

CLASSIFICATION

Investigational **general-wellness** device — not FDA-cleared



SCAN TO LEARN MORE
KOMORICARE.COM

Contactless, privacy-preserving nighttime monitoring, built around the patterns you define.

An observational platform that watches movement, position, and the night — without cameras, without wearables, and without raw audio ever leaving the device.

What Komori does

A contactless, multi-modal bedside system for nocturnal movement-pattern monitoring: **60 GHz FMCW radar** that penetrates bedding, augmented by a thermal array, on-device acoustic event classification, and environmental sensors. **Privacy by design** — no camera, no video, no raw audio ever leaves the unit; all processing is on-device.

Caregiver-defined alerting. Caregivers review a minute-by-minute Night Review timeline, tag the movements they find concerning, and the system watches for similar patterns using weighted-similarity matching that adapts to feedback. A general-wellness tool that complements existing care and cleared devices — not a seizure detector.

What we are building toward

A Phase I STTR with **Dr. Mark Quigg (UVA Neurology)** as multi-PI, validating the contactless system in the UVA Epilepsy Monitoring Unit against video-EEG, nursing, and actigraphy reference. Specific aims, **all non-vitals**:

- 1 Body-position monitoring across canonical sleep positions.
- 2 Movement-signature and event-detection characterization — bed-exit, in / out-of-bed, position transitions.
- 3 Seizure-signature feasibility — exploratory, EMU-anchored.

Heart-rate / respiratory-rate measurement is a separate, parallel FDA Pre-Submission pathway, not part of this work.

What we are looking for — research partners

- EMU clinicians open to evaluating a contactless modality alongside standard monitoring.
- SUDEP-mechanism researchers interested in nocturnal movement and position data.
- Patient-advocacy organizations connecting families who want contactless, wearable-free options.

Founder-bootstrapped; non-dilutive grants only. A research-collaboration ask, not an investment pitch.

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Disclosure. Komori is an investigational general-wellness device; it is NOT an FDA-cleared medical device and is not intended to detect, diagnose, treat, or prevent seizures or any medical condition. Self-funded by the founder; the founder is sole developer and holds a financial interest in the company.