

Adaptive Prism Sensor Calibration: Version 1

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Project-owned synthetic sample, 2026-09-04

Evidence boundary: project-owned synthetic source; not a benchmark, customer result, scientific result, or paid delivery.
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Abstract

This synthetic study describes a prism-lattice sensor and its amber drift coefficient. Thermal stabilization precedes every measurement. The record is deliberately small so that extraction, version identity, retrieval, and page citations can be inspected by hand.

Purpose

Version 1 establishes a local lexical baseline. It does not claim that the fictional instrument exists or that the method generalizes to real papers.

Calibration method

The response model is

$$r(t) = gs(t) + b.$$

The symbols may be linearized by a PDF text extractor, so the equation must be checked against the source page rather than trusted as plain text alone.

Setting	Version 1 value
Calibration interval	18 minutes
Sampling rate	240 Hz
Reference wavelength	532 nm

The table is intentionally simple, but extracted reading order is still an explicit weakness of the plain-text baseline.

Limits and decision

The declared temperature range is 18 to 24 degrees Celsius. Humidity coupling was not tested. Local calibration reduces spectral drift only inside this fictional setup.

Version 1 is suitable for a bounded extraction and citation demonstration. It is not evidence for OCR, semantic retrieval, a knowledge graph, or production deployment.