ECM v2 — Next-Generation Emotional Cycling Machine

Conceptual Specification — Core Emotion Framework (CEF)

Author: Jamel Bulgaria
ORCID: 0009-0007-5269-5739
Affiliation: OptimizeYourCapabilities.com
Contact: admin@optimizeyourcapabilities.com

Version: 2.0 (Conceptual Architecture)

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0. Purpose and Canonical Position

ECM v2.0 is the next-generation evolution of the Emotional Cycling Machine.
Where ECM v1.x is a single-wheel, manual, non-electronic training device, ECM v2.0 introduces:

- multi-wheel emotional architecture
- resistance-based calibration
- modular attachments
- dynamic load mapping
- research-grade measurement compatibility
- optional sensory feedback channels
- expanded operator-level precision
- cross-center choreography support

ECM v2.0 does not replace ECM v1.x.
It is the advanced device line intended for:

- research laboratories
- practitioner training centers
- high-precision emotional calibration
- long-horizon structural monitoring

ECM v2.0 is the hardware counterpart to:

- PM-12 (Meta-Stability)
- PM-13 (Adaptive Intelligence)
- PM-14 (Plasticity & Reconfiguration)
- PM-15 (Autonomous Governance)

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1. ECM v2.0 Architecture Overview

ECM v2.0 introduces a three-module hardware system.

1.1 Module A — Primary Wheel (v1.x Core)

The original ECM wheel remains the foundation:

- CW / CCW / Swing
- center-level activation
- attentional operator selection

This module ensures backward compatibility with all v1.x protocols.

Height-Adjustment Requirement
The Primary Wheel remains height-adjustable and must be positioned at the anatomical height of the Head, Heart, or Gut center. ECM v2.0 preserves the vertical emotional axis of the Core Emotion Framework by using a single wheel that moves across three height positions rather than three separate wheels. This ensures accurate center-level activation, maintains embodied alignment with Cycling v1.1, and preserves compatibility with all v1.x protocols.

1.2 Module B — Dual Micro-Wheels (New)

Two small, independent micro-wheels positioned on the left and right sides.

Purpose

- operator-level micro-cycling
- bilateral modulation
- micro-precision calibration
- plasticity tuning (PM-14)
- adaptive intelligence mapping (PM-13)

Functions

- micro-CW / micro-CCW
- micro-Swing
- resistance micro-adjustments
- operator-specific activation patterns

These wheels enable direct operator-level cycling without relying solely on attentional isolation.

1.3 Module C — Cross-Center Choreography Ring (New)

A rotating ring surrounding the Primary Wheel.

Purpose

- tertiary cycling support
- center-to-center sequencing
- emotional choreography
- long-horizon stability mapping (PM-12)

Functions

- directional sequencing
- timed transitions
- center-mapping indicators
- optional tactile cues

This module externalizes tertiary cycling, making it mechanically supported for the first time.

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2. Resistance-Based Calibration System

ECM v2.0 introduces manual resistance bands and dial-based tension controls.

2.1 Purpose

- load-based calibration
- capacity elasticity testing (PM-9)
- dynamic stability training (PM-10)
- threshold mapping

2.2 Modes

- **Low resistance** → emotional clarity
- **Medium resistance** → modulation strengthening
- **High resistance** → capacity expansion
- **Variable resistance** → adaptive intelligence

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3. Modular Attachments

ECM v2.0 supports optional modules.

3.1 Stability Bar

A detachable horizontal bar for:

- grounding
- proprioceptive anchoring
- stability under high load

3.2 Operator Dial

A selector dial that:

- highlights the active operator
- guides attentional focus
- supports practitioner instruction

3.3 Choreography Timer

A metronome-like module for:

- timed transitions
- cross-center sequences
- research protocols

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4. Sensory Feedback Channels (Optional)

ECM v2.0 remains non-electronic by default but supports optional sensory modules.

4.1 Haptic Feedback

- subtle vibration cues
- operator-level micro-signals
- transition markers

4.2 Visual Feedback

- LED direction indicators
- center-sequence mapping
- load-level indicators

4.3 Auditory Feedback

- soft metronome

- transition tones
- stability cues

These modules are detachable to preserve the non-electronic purity of ECM v1.x.

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5. ECM v2.0 Cycling Modes

ECM v2.0 expands the v1.x hierarchy.

5.1 Primary Mode (v1.x Compatible)

- center-level cycling
- CW / CCW / Swing

5.2 Secondary Mode (Enhanced)

- operator-level cycling
- micro-wheel activation
- operator dial selection

5.3 Tertiary Mode (Mechanically Supported)

- choreography ring sequencing
- timed transitions
- multi-center integration

5.4 Quaternary Mode (New)

Adaptive Cycling

A dynamic mode where:

- resistance changes mid-cycle
- micro-wheels activate automatically
- the choreography ring guides transitions

This mode trains:

- adaptive intelligence
- plasticity
- autonomous governance

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6. Calibration Protocols (v2-Specific)

ECM v2.0 introduces advanced calibration methods.

6.1 Multi-Wheel Calibration

- Primary Wheel → center
- micro-wheels → operators
- choreography ring → transitions

6.2 Resistance Calibration

- capacity elasticity
- threshold mapping
- load-response curves

6.3 Choreography Calibration

- sequence timing
- transition smoothness
- center reciprocity

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7. Safety & Stability Guidelines

ECM v2.0 requires:

- Tier 2 stability before micro-wheel use
- Tier 3 stability before choreography ring use
- practitioner supervision for Adaptive Mode
- no use during emotional instability
- no use for therapeutic intervention

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8. Version Notes (v2.0)

ECM v2.0 introduces:

- multi-wheel architecture
- resistance-based calibration
- cross-center choreography ring
- operator-level mechanical activation
- Adaptive Cycling mode
- modular attachments

- optional sensory feedback
- research-grade calibration protocols

ECM v2.0 is the advanced device line.
ECM v1.x remains the standard training device.

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9. Conclusion

ECM v2.0 represents the next evolution of emotional cycling hardware.
It expands the mechanical architecture to support:

- operator-level precision
- cross-center choreography
- capacity and load mapping
- adaptive intelligence
- long-horizon stability

ECM v2.0 is designed for practitioners, researchers, and advanced users seeking a deeper, more precise, and more structurally aligned emotional training experience.

ECM Disclaimer Block

(Three-Tier System for All ECM Documents)

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1. Practitioner-Level Disclaimer

Practitioner-Level Disclaimer

The Emotional Cycling Machine (ECM) and all associated protocols, guides, and training materials are **non-clinical, non-diagnostic, and non-therapeutic**.
They are designed exclusively for **educational, developmental, and skills-training purposes** within the Core Emotion Framework (CEF).

ECM practice does **not** assess, treat, or diagnose any psychological, emotional, or medical condition.
ECM should **not** be used as a substitute for mental-health care, psychotherapy, counseling, crisis intervention, or medical treatment.

Facilitators must:

- avoid interpreting emotional content
- avoid eliciting emotional disclosure
- avoid framing ECM as therapy
- stop use immediately if a participant shows signs of distress

Users experiencing acute emotional overwhelm, instability, or crisis should discontinue ECM practice and seek appropriate professional support.

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2. User-Level Disclaimer

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The Emotional Cycling Machine (ECM-Lite) is a **non-clinical educational tool** designed to support emotional awareness, clarity, and modulation.
It is **not** a therapeutic device and does **not** diagnose, treat, or assess any emotional or psychological condition.

Use ECM-Lite gently and discontinue if you feel overwhelmed, distressed, or physically uncomfortable.
ECM-Lite is intended for general emotional-skills practice and should not replace professional mental-health care or medical support.

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3. Engineering / Conceptual Disclaimer

Engineering / Conceptual Disclaimer

This document describes the conceptual, mechanical, and engineering architecture of the Emotional Cycling Machine (ECM) within the Core Emotion Framework (CEF).
It is intended for **research, design, and technical reference** only.

The descriptions of emotional states, load, stability, or calibration are **conceptual constructs** within the CEF and are **not** clinical assessments or psychological measurements.
This document does **not** provide therapeutic guidance and should not be interpreted as mental-health instruction.

All emotional terminology is used in a **framework-specific, non-clinical sense**.
