

# 8ight Research Labs – Holographic Biological Signaling Platform

## 8-Mode Holographic Peptide Encoding Aligned to NIR/THz Spectral Master

**8ight Research Labs – A Division of 8ight LLC – Johns Creek, Georgia, USA**  
**Holographic Biological Signaling Platform Documentation**

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### Abstract

8ight Research Labs has developed a holographic biological signaling framework in which peptide information is encoded and transmitted using an 8-mode longitudinal carrier geometry. This geometry forms a dual-loop resonant field (“figure-8 transmission”) aligned to the WarrensLove spectral master peaks at 900, 1200, 1400, and 1700 nm (corresponding to 333, 250, 214, and 176 THz).

Peptide spectral fingerprints (Semax, CJC-1295, MOTS-c, AOD-9604) are mapped onto this master geometry with amplitudes normalized to the WarrensLove band. The result is a unified encoding model linking spectral validation, holographic circuit architecture, and biological coupling theory.

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### 1. Introduction

Holographic Biological Signaling at 8ight Labs is based on the principle that molecular information can be encoded into photonic-longitudinal carrier fields and coupled to biological systems via resonance. Over two decades, the platform has integrated:

- longitudinal carrier waves
- programmed magnetics
- infrared and laser modulation
- plasma-assisted encoding
- NIR spectral validation

Recent measurements demonstrate that encoded holographic fields propagate in a dual-loop trajectory consistent with an 8-mode transmission geometry.

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## 2. 8-Mode Transmission Geometry

The 8-mode geometry consists of two coupled resonant loops sharing a central interaction node:

- Upper loop: informational encoding field
- Lower loop: biological coupling field
- Central node: resonance transfer interface

This topology creates repeated traversal of encoded peptide information through the coupling node, producing continuous longitudinal signaling.

Key properties:

- closed-loop circulation
- phase-shifted dual resonance
- longitudinal carrier coherence
- repeated coupling exposure

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## 3. Spectral Master Alignment (WarrensLove Band)

The WarrensLove holographic spectral master exhibits dominant NIR peaks at:

Peak	nm	THz	Normalized Amplitude
P1	900	333	1.00
P2	1200	250	0.82
P3	1400	214	0.91
P4	1700	176	0.74

These peaks define the angular positions of spectral spikes on the 8-mode loop geometry.

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## 4. Peptide Spectral Fingerprint Mapping

Each peptide exhibits a characteristic spectral amplitude distribution relative to the master peaks.

Normalized amplitudes:

nm	WarrensLove	Semax	CJC-1295	MOTS-c	AOD-9604
900	1.00	0.72	0.68	0.79	0.65
1200	0.82	0.88	0.95	0.84	0.78
1400	0.91	0.66	0.63	0.71	0.69

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nm	WarrensLove	Semax	CJC-1295	MOTS-c	AOD-9604
1700	0.74	0.81	0.88	0.76	0.83

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Peptide spikes are overlaid co-angular with the WarrensLove master spikes and scaled proportionally to amplitude.

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## 5. Holographic Circuit Coupling Field

The 8-mode geometry is embedded within a radial holographic circuit field representing multi-directional coupling vectors from the encoding source. This field indicates:

- spatial coherence reinforcement
- multidirectional phase alignment
- field distribution symmetry

The circuit acts as a carrier scaffold linking spectral encoding to biological reception.

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## 6. NIR ↔ THz Dual Spectral Representation

Wavelength-frequency conversion:

THz  $\approx$  300000 / nm

Thus:

- 900 nm  $\rightarrow$  333 THz
- 1200 nm  $\rightarrow$  250 THz
- 1400 nm  $\rightarrow$  214 THz
- 1700 nm  $\rightarrow$  176 THz

Dual labeling confirms spectral coherence across wavelength and frequency domains.

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## 7. Biological Signaling Interpretation

Within the 8ight model:

- Upper loop: encoded peptide information circulation
- Lower loop: biological resonance reception
- Node: transfer coupling point

Repeated circulation produces sustained exposure of biological systems to encoded peptide signatures.

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## 8. Multi-Peptide 8-Mode Encoding Plate

The integrated multi-peptide diagram demonstrates:

- shared spectral geometry
- amplitude-true overlays
- peptide differentiation within same carrier
- master-anchored encoding

This plate forms the reference standard for holographic peptide encoding.

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## 9. Platform Implications

The 8-mode spectral alignment establishes a unified framework linking:

- holographic encoding architecture
- spectral validation (NIR/THz)
- peptide information mapping
- biological coupling geometry

This supports a platform-level encoding paradigm rather than peptide-specific devices.

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## 10. Conclusion

8ight Research Labs has demonstrated that holographic peptide information can be encoded within an 8-mode longitudinal transmission geometry aligned to a WarrensLove spectral master. Multiple peptide fingerprints can be mapped onto this geometry with amplitude-true scaling, producing a unified holographic biological signaling framework.

This integration of spectral science, field geometry, and biological coupling represents a foundational architecture for holographic peptide signaling technologies.

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## Figures

### Figure 1 — 8-Mode NIR/THz WarrensLove + CJC-1295 Alignment

Figure 1

*Figure 1*

## Figure 2 — Multi-Peptide 8-Mode Spectral Encoding Plate

Figure 2

*Figure 2*

## Figure 3 — Holographic Circuit with Spectral Spikes

Figure 3

*Figure 3*

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**Footer — 8ight Research Labs | Holographic Biological Signaling | Spectral Encoding Platform**

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