



## SPECTRNODE WIRELESS SENSOR SUITE

<p><b>IR IR Camera</b></p> <p>Infrared imaging for low-light and thermal anomaly detection</p>	<p><b>MIC Audio Recording</b></p> <p>Onboard mic for EVP capture and ambient sound monitoring</p>
<p><b>TMP Temperature</b></p> <p>Precision ambient temperature (deg F/C) with real-time graphing</p>	<p><b>HUM Humidity</b></p> <p>Relative humidity (%) for environmental baseline tracking</p>
<p><b>BAR Barometric Pressure</b></p> <p>Atmospheric pressure (hPa) sensing and continuous logging</p>	<p><b>EMF EMF Detector</b></p> <p>Electromagnetic field (uT) - core paranormal anomaly sensor with alert threshold</p>
<p><b>MAG 3-Axis Magnetometer</b></p> <p>Full X / Y / Z magnetic field vectors (uT) for detailed EM mapping</p>	<p><b>CMP Compass</b></p> <p>Digital heading (degrees) for directional orientation logging</p>

## HARDWARE & SOFTWARE SPECIFICATIONS

### HARDWARE — SPECTRNODE

Form Factor	Custom-built wireless sensor node
Build Type	Made-to-order
Power	Rechargeable battery via USB-C
Wireless	Wi-Fi 6 Dual-Band (2.4 / 5 GHz)
Config	Bluetooth (initial setup)
Sensors	8 integrated sensor types

### SOFTWARE — DESKTOP APP

Version	0.1.0
Type	Native desktop application
Interface	Graphical dashboard (GUI)
Platforms	Windows   Linux   macOS
Multi-Node	Simultaneous multi-SpectrNode support
Connect	Wi-Fi 6 to sensor nodes

## SYSTEM ARCHITECTURE

Setup Flow	Connect SpectrNode via Bluetooth -> configure Wi-Fi 6 credentials -> node joins network -> discovered by desktop app
Operation	Desktop app communicates with one or more SpectrNodes over Wi-Fi 6 dual-band wireless
Data Path	SpectrNode -> Wi-Fi 6 -> Desktop App -> live display + local session storage



Power	USB-C rechargeable; fully field-deployable without tethered power
Alerts	Configurable anomaly thresholds per sensor channel (e.g. EMF spike detection)
Sessions	Named investigation sessions with full timestamped sensor log and export

## SOFTWARE FEATURES

- \* Real-time dashboard with live graphs for all 8 sensor channels per node
- \* Multi-node support - monitor multiple SpectrNodes simultaneously from one interface
- \* IR camera live feed per node with recording and snapshot capture
- \* Audio monitoring and EVP session recording
- \* EMF anomaly detection with configurable alert thresholds and visual highlighting
- \* 3-axis magnetometer (X/Y/Z) with individual channel graphing (uT)
- \* Session recording - full timestamped sensor data log for post-investigation review
- \* Session management and investigation history via Sessions view
- \* Bluetooth-guided SpectrNode configuration wizard
- \* Mute alerts, per-session device management, and light/dark mode toggle
- \* Export investigation reports with complete timestamped sensor logs

### Join the SpectrScan Waitlist

SpectrScan is currently in early development (v0.1.0). Hardware pricing and availability are being finalized. Contact [info@synteric.com](mailto:info@synteric.com) to join the waitlist and be notified when SpectrNodes and the desktop app are available.