

WraithSkin Cloaking System - GhostCore Signature Masking Technology

The WraithSkin Cloaking System is a proprietary subsystem of the GhostCore tactical architecture. It provides dynamic, spectrum-wide stealth capabilities using reactor-integrated electromagnetic field modulation.

Unlike traditional stealth that reduces signature through absorption or shape, WraithSkin enables full-spectrum cloaking by bending, scrambling, or nullifying outgoing emissions-including heat, light, radar, radio, and even ion trails.

Mechanism of Action:

1. **Field Shaping via Magnetic Torus**

The molten lead loop's powerful magnetic field is controlled via high-precision AI gating. These fields can be torqued and reshaped in real-time to refract or scatter outgoing electromagnetic emissions.

2. **EM Phase Cancellation**

Using precise phase inversion derived from the reactor's internal oscillations, WraithSkin can cancel the ship's signature across certain wavelengths by destructive interference.

3. **TPV Emission Masking**

The thermophotovoltaic (TPV) array's radiation profile is modulated to mimic background cosmic

noise, planetary reflection, or deep space shadows-making thermal detection unreliable.

4. ****Lead Plasma Bloom Cloak (Optional)****

A brief discharge of ionized lead from the secondary loop can create a plasma fog to absorb or scatter incoming detection waves before reaching the ship.

Spectral Ranges Affected:

- Radio (HF-UHF)
- Radar (X-band, Ka-band, L-band)
- Infrared (NIR, MIR, TIR)
- Optical (Visible spectrum)
- Ultraviolet (optional plasma effect)
- Partial suppression of ion/plasma wake in exoatmospheric movement

Advantages:

- Real-time adaptation via GhostCore AI
- Fully reactor-integrated (no external shielding required)
- Covert operation in low-orbit, deep space, and dark ops environments
- Compatible with GhostCore's other tactical systems (EMP, photon drive)

Codename: ****WRAITHSKIN****

Designation: ****GC-MCLOAK.3A****

Status: ****Active - Red Team Certified****

GhostCore ships running WraithSkin vanish not just from sight-but from memory.