BlinkDrive – Humanity’s First Step Beyond the Stars

Author: Mervyn Jagels

---

1. Purpose & Vision

BlinkDrive is a **hybrid propulsion system** for deep space exploration, merging **thermal CO_2 thrust**, **quantum-assisted jump mechanics**, and **modular energy systems** to allow humanity to reach beyond our solar system. This blueprint is **open-source**, for the benefit of all.

---

2. Executive Summary

The concept combines:

- **Hybrid Impulse Drive**: CO_2/N_2 heated by industrial lasers for maneuvering
- **FTL BlinkDrive**: Photon-field modulation for spatial displacement
- **Energy Storage**: Tungsten/iridium rods feeding industrial Stirling engines + solar collectors

Mission: **Enable human colonization of Proxima Centauri and beyond**, powered by physics-driven engineering.

---

3. System Overview

```
[ Crew Habitat ] -- [ Thermal Reactor ] -- [ Energy Conversion (Stirling) ] --
[ Blink Core ] -- [ Gas Nozzle ]
          | Solar Mirrors | Radiator Panels | Quantum Modulator | Capacitor
Banks |
```

---

4. Energy Flow

```
Tungsten Rod → Granite Tube → Copper Mesh → Copper Block → Stirling Engine →
Supercapacitors → BlinkDrive
```

---

5. Key Math

Thermal to Electric

- Tungsten core mass: 10,000 kg
- Heat capacity: 134 J/kg·K
- Temp swing: 2,500 → 500 K

```
E = m × c × ΔT
E = 10,000 × 134 × 2,000 = 2.68 GJ thermal
Electric @30% = 804 MJ
Power (24 hrs) = 9.3 kW per rod
```

Scaling:

- 100 rods = \~0.93 MW
- 1,000 rods = \~9.3 MW

BlinkDrive Charge

Energy for 0.1c equivalent:

```
E = (γ - 1)mc²
γ ≈ 1.005 @ 0.1c
E ≈ 4.5 EJ for 188,000 kg
Charging with 15 TW = ~3.5 days
```

Gas Thrust ISP

```
CO₂ @ 3,000 K
v_e ≈ 859 m/s
ISP ≈ 88 s
Δv (188t → 100t) ≈ 541 m/s
```

---

6. Performance Table

Parameter	Value
Heat per Rod	2.68 GJ

Parameter	Value
Electric (per rod)	804 MJ
Continuous Power (per rod)	9.3 kW
Exhaust Velocity (CO_2)	\~859 m/s
ISP	\~88 s
Δv	\~541 m/s

---

7. ASCII Cutaway

```
Top View:
[==== Crew ====][== Thermal ==][== Energy ==][== Blink Core ==][== Nozzle ==]

Side View:
[ Habitat ]
    ↓
[ Reactors ] → [ Stirling Gen ] → [ Blink Chamber ] → [ Thruster ]
```

---

8. License

Creative Commons Zero (CC0) – No patents, no restrictions. Use ethically for space exploration.

---

9. Manifesto

Technology belongs to humanity, not corporations. BlinkDrive is a gift to the future—built on hope, science, and collaboration.