



[01] CORE_COMPUTE_SPEC

ARCHITECTURE

Apple Silicon (M1, M2, M4)

MEMORY

8GB min unified memory

Optimized for Metal performance shaders and Neural Engine acceleration.

[02] OPTICAL_SENSORS



LiDAR scanner (Head A)

PRECISION SPATIAL MAPPING AND DEPTH SENSING @ 30FPS



12MP wide camera (Head C)

HIGH-RESOLUTION VISUAL DATA CAPTURE / RAW SUPPORT

[03] ENVIRONMENTAL_ENCLOSURES

C1D2 COMPLIANCE

System units are sealed and certified for **Class 1 Division 2 (C1D2)** hazardous locations. Designed for intrinsically safe operation in environments where flammable gases or vapors may be present.

- NON-INCENDIVE CIRCUITRY
- IP67 RATED INGRESS PROTECTION
- EXPLOSION-PROOF HOUSING OPTIONS AVAILABLE

[04] NETWORK_&_SECURITY



100% OFFLINE EDGE INFERENCE

Zero external data transmission requirement. All ML models run locally on silicon to ensure data sovereignty.



LOCAL SQLITE VECTOR DB

High-performance vector search engine embedded locally. Encrypted at rest using AES-256 standard.

ATTENTION: IT & PROCUREMENT DEPARTMENTS
DEPLOYMENTS@STEEL.VISION