

ZEDEC ALLIANCE CONFIDENTIAL

NEWAY PRECISION

THE FABRICATOR - Manufacturing Partnership

Executive Summary

Neway Precision is invited to serve as the exclusive manufacturing partner for the GlyphMap J.D.R. device, utilizing advanced multi-material 3D printing and precision assembly capabilities.

Your Role: You are THE FABRICATOR. The raw materials flow to you. The finished devices flow from you. You are the heart of the manufacturing operation.

Why Neway Precision

- **Multi-Material 3D Printing:** Capability for complex nano-resin composites
- **Precision Manufacturing:** Tolerances suitable for medical-grade electronics
- **Quality Certifications:** ISO 9001 compliant facility
- **Scalability:** Capacity for prototype through mass production
- **Vacuum Casting:** Backup capability for complex geometries

Manufacturing Scope

Device Architecture

Component	Process	Materials
Chassis/Shell	Multi-material SLA/DLP	Neo-Crystal Resin + Nano-fillers
Circuit Lattice	Conductive ink printing	Graphene-Silver nano-ink
Abha Coil Core	Precision winding + embedding	Copper + Neodymium
Piezo Layer	Lamination	PZT ceramics (from Sparkler)
Final Assembly	Monolithic integration	Single-piece device

Production Phases

Phase	Volume	Unit Cost	Total Contract
Prototype	10 units	\$2,500	\$25,000
Alpha	100 units	\$1,200	\$120,000
Beta	1,000 units	\$600	\$600,000
Production	5,000 units	\$350	\$1,750,000
Scale	25,000 units	\$250	\$6,250,000
Mass	100,000+ units	\$200	\$20,000,000+

Financial Terms

5-Year Manufacturing Revenue

Year	Units	Unit Price	Revenue
Year 1	5,000	\$350	\$1,750,000
Year 2	25,000	\$250	\$6,250,000
Year 3	100,000	\$200	\$20,000,000
Year 4	250,000	\$180	\$45,000,000
Year 5	500,000	\$160	\$80,000,000
5-Year Total			\$153,250,000

Exclusivity Terms

- Exclusive Manufacturer:** Sole authorized GlyphMap fabricator for 5 years
- Technology Transfer:** Access to proprietary resin formulations
- Capacity Priority:** Guaranteed production slots
- Co-Development:** Joint R&D for manufacturing optimization

Technical Requirements

Parameter	Specification
Print Resolution	≤50 microns XY, ≤25 microns Z

Multi-Material	≥ 4 materials per print
Build Volume	$\geq 200 \times 200 \times 100$ mm
Tolerance	± 0.1 mm for critical dimensions
Surface Finish	$R_a \leq 1.6 \mu\text{m}$
Cleanroom	Class 10,000 for assembly

Material Supply Chain

Alliance partners will supply specialty materials:

Material	Supplier	Role
Graphite/Carbon	Hiyka	Graphene precursors
PZT Ceramics	Sparkler Ceramics	Piezoelectric elements
Niobium, Germanium	Metal Fort	Specialty metals
Logistics	DP World	Material transport

Next Steps

- 1. Technical Review:** Assess multi-material printing capability for spec
- 2. Material Trials:** Test resin formulations with sample materials
- 3. Prototype Contract:** 10-unit prototype agreement Q1 2025
- 4. Exclusive MOU:** 5-year manufacturing partnership agreement

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