

ZEDEC ALLIANCE CONFIDENTIAL

# NEWAY PRECISION

THE FABRICATOR - Manufacturing Partnership

## Executive Summary

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**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

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- **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	≥200×200×100mm
Tolerance	±0.1mm for critical dimensions
Surface Finish	Ra ≤ 1.6 μm
Cleanroom	Class 10,000 for assembly

## Material Supply Chain

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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

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- 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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