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Company Introduction

Visban is developing millimeter-wave solutions that make high-capacity wireless networks faster and easier to deploy. Our proprietary RF-on-Glass™ Network-Controlled Repeaters connect to form V-Mesh™, an intelligent mmWave mesh system that extends coverage across indoor and outdoor environments without new infrastructure. Managed by the AI-based Visban Orchestrator, the system dynamically selects and directs signal paths to maintain performance in obstructed and non-line-of-sight conditions – challenges that typically limit mmWave deployments. V-Mesh installs in weeks rather than months, supporting advanced 5G services today and the evolution toward 6G networks.

Product Details

V-Mesh is a millimeter wave mesh system of Network-Controlled Repeaters that extends high-capacity wireless coverage beyond line-of-sight. Using Visban's RF-on-Glass Network-Controlled Repeaters as multi-hop nodes, V-Mesh connects to an existing base station and routes signals around obstacles to reach users in areas that typically lack coverage, without requiring extensive new infrastructure.

The AI-based Visban Orchestrator manages V-Mesh, continuously analyzing network conditions and directing signal paths to maintain optimal performance. This routing adapts in real time to support smart-factory automation, AR/VR environments, and AI-driven services.

Visban is developing V-Mesh as a platform that can integrate with complementary technologies, including products from Dai Nippon Printing (DNP), to enhance performance in difficult environments. DNP's sub-6 film-type antenna installs on outdoor surfaces and blends into surroundings to provide flexible mid-band coverage. Its passive Reflect Array shapes millimeter wave signals to improve reach in challenging locations. When deployed with V-Mesh, DNP's film-type antenna and Reflect Array add mid-band and beam-shaping capabilities where traditional installations are impractical.

