

DOME

Private 5G for Live Production and Remote Broadcast



The Vislink DOME is a rugged, backpack-portable communications hub designed to deliver private 5G connectivity on location.

The system provides a self-contained 5G/Wi-Fi network that can be brought online rapidly in fast-moving production environments.

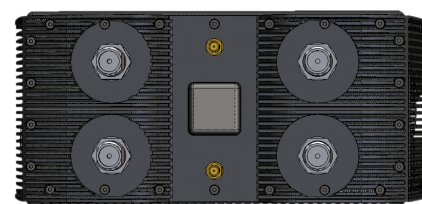
The unit integrates a complete private 5G stack within a single platform - including core, CU, DU and radio - for remote and mobile production, enabling secure, high-bandwidth connectivity for live production crews. With support for up to 128 simultaneous users.

Designed for resilience and operational flexibility, DOME combines beamforming and dynamic power control with multiple backhaul options, including internal or external public or private cellular, mesh and satellite. An embedded AI engine enables edge-based processing and analytics, while the ruggedised, IP67-rated form factor ensures reliable performance across extreme environmental conditions.

Key Features

[Self-Contained Private 5G Network](#)[Interoperable Communications Hub](#)[High-Capacity Connectivity at the Edge](#)[Flexible Backhaul and Network Extension](#)[Integrated Network Monitoring](#)[Edge Processing and Local Intelligence](#)[Rapid Setup](#)[Rugged, Portable Form Factor](#)

Typical Applications

[Remote production \(REMI\)](#)[Outside broadcast](#)[Live sports and events](#)[Electronic news gathering \(ENG\)](#)[On the move \(OTM\)](#)

DOME Datasheet

System Configuration	
Portability & Mounting	Backpack-portable Tripod mountable Vehicle mountable Freestanding
Enclosure	IP67 ruggedized; MIL-STD shock/vibration tested
Power	Standard BB2590 battery (Internal) External DC input
Startup Time	3.5 minutes to operational
Weight	4.54 kg (10 lbs) with battery for core unit
Dimensions	373mm (14.7") x 248mm (9.8") x 107.6mm (4.25")
Backhaul	External: 3 x 1G Ethernet, supports Mesh MANET, satellite (LEO/MEO) Internal: Cellular (public or private), WiFi7
Battery Life	2 hours
Wi-Fi	Wi-Fi 7 (802.11be) 2.4 / 5 / 6 GHz tri-band 2T2R; mesh
Temperature range (operating)	-30°C to +60°C

5G gNB/Core and 5G UE	
3GPP Compliance	Release 17 (5G NR Standalone)
Frequency Bands	n48 (CBRS 3550–3700 MHz) n77 (3300–4200 MHz) n78 (3300–3800 MHz)
Channel Bandwidth	10, 20, 40, 80, 100 MHz per component carrier
Instantaneous BW	200 MHz IBW 200 MHz OBW
Carrier Aggregation	Up to 4CC; contiguous and non-contiguous
MIMO	4T4R MU-MIMO; 360° omnidirectional coverage
5G EIRP	Up to +36 dBm (composite)
5G Antenna Gain	External
Connected Devices (5G/LTE)	Up to 128 simultaneous UEs per unit
Throughput	5G NR; up to 700 Mbps

Units available Q1 2027