HiveNet™ TACTICAL REPEATER

↗ FEATURES AT A GLANCE

- **Full encryption of the system and repeater links**
- **Heartbeat signal for roaming throughout the repeater network**
- **Self–healing network for easy adding and removing of repeaters**
- **Rapidly deployable outdoors or within vehicles**
- **Interoperable with a wide range of subscriber radios**
- **Full P25 Compliance**
- **Compact and impact resistant**

HiveNet™ is a rugged transportable repeater which can be linked with other HiveNet repeaters over RF links, to create a network of linked repeaters. A HiveNet repeater network is self-healing, allowing for repeaters to be added and removed on the fly, as well as being rapidly configurable for expanded area coverage.

INTEROPERABLE ENCRYPTED NETWORK

HiveNet repeaters and links can be any frequency band (VHF, UHF, 700/800/900 MHz). HiveNet is available as an analog only or analog and P25 digital (mixed mode) repeater network giving users full forwards and backwards compatibility with existing legacy equipment. In P25 Digital mode, HiveNet will pass all encrypted voice and data transparently through the repeater network using AES-256 encryption, meaning all communications are secure in the case of a HiveNet repeater being compromised. HiveNet repeaters are interoperable with a wide range of subscriber radios from all P25 supported vendors.

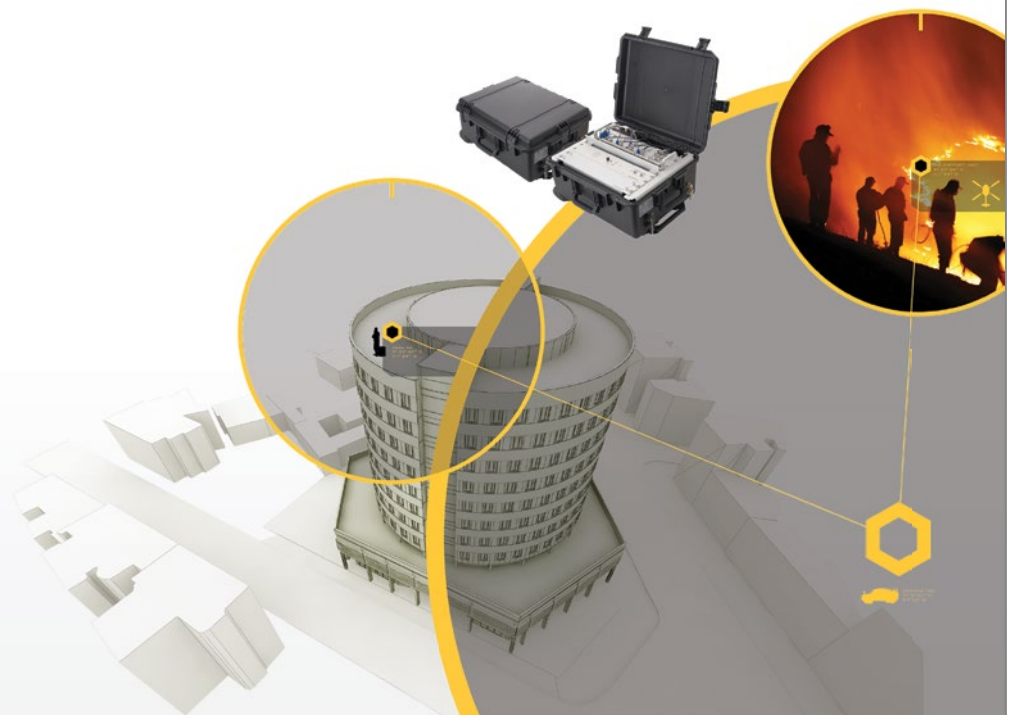### HEARTBEAT SIGNAL FOR ROAMING

Conventional repeater systems require users to manually change channel to move between repeaters. HiveNet has the unique functionality of a heartbeat signal which enables a user to roam freely within the HiveNet repeater network coverage area, without having to change channels. The heartbeat signal ensures a users portable radio is locked onto the best HiveNet repeater site for optimal coverage and reliable communications.

RUGGED AND RAPIDLY DEPLOYABLE

HiveNet repeaters are lightweight and housed in a compact watertight polyethylene Pelican™ case. The case includes soft grip handles, in-line wheels, press and pull latches and a telescoping handle for rapid deployment. A HiveNet repeater is low power consumption, allowing it to operate from internal batteries, vehicle batteries or additional add-on external batteries. HiveNet is based on a transportable repeater solution but can be installed as a fixed network infrastructure.

SPECIFICATIONS

Repeater Bands	136-174, 380-520, 768-869, 896-960 MHz
Encryption	DES-OFB / AES-256 (FIPS certified)
Modulation Types	Analog, P25, Mixed Mode
Size	24.6" (62.5 cm) wide, 11.7" (29.7 cm) high and 19.7" (50.0 cm) deep
Weight	50 lbs. (22.68 kg)
Operating Temperature	−40°C to + 60°C (100% Duty Cycle - lid open) −40°C to + 40°C (100% Duty Cycle - lid closed) + 40°C to + 50°C (50% Duty Cycle - lid closed) + 50°C to + 60°C (10% Duty Cycle - lid closed)
Power outputs	0.5 to 8 Watts (VHF / UHF) 0.5 to 3 Watts (700/800/900 MHz) 30 Watts (VHF / UHF / 700 MHz / 800 MHz)
Power	110/220 Vac and/or 12 Vdc
Battery Life (10% duty cycle, 30 W output)	8 hours (10.5 AHr internal battery) 30 hours (35 AHr external battery) 90 hours (100 AHr external battery)
Type of battery	Absorbent Glass Mat (AGM) - Rechargeable
Internal Duplexer Frequency Separation	VHF: ≥ 2.0 MHz or ≥ 4.5 MHz separation 400 MHz UHF: ≥ 5.0 MHz separation 700 MHz UHF: ≥ 30 MHz separation 800 MHz UHF: ≥ 45 MHz separation 900 MHz UHF: ≥ 24 MHz or 39 MHz separation

CODAN RADIO COMMUNICATIONS

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