LIVESTREAMING VIDEO, VOICE & DATA

Hot Zone to Cold Zone Communications
Rapidly Deploying to Extend Your Mobile Network

Designed from the ground up for the unique communication challenges faced by today's first responders, the Vorbeck ND4 Drop Node shares the same Rajant InstaMesh® technology as the HD4 harness. It is rapidly deployable to quickly and easily expand the range of your team's on-site network. It has the versatility to be installed as a low profile package in a confined space or tunnel, to deploy on a man-portable stand rapidly, or to be mounted on a truck boom (to extend mesh coverage over a broad area).

Rajant Private Wireless Networks:
Ensuring the Safety of First Responders Through Various Temperature Zones

Rajant provides the ideal networking solution to rapidly and reliably interconnect systems, so you can have real-time control and full situational awareness at all times.

The Drop Node includes a Pan/Tilt/Zoom (PTZ) camera that can be remotely controlled by smartphone (Android App) or computer, and can serve as a 'watchman' remaining on station without concerns of consuming an SCBA or exposing personnel to hazards. The Recon/Entry team can enter the incident area, place the node in the Hot Zone and return to Incident Command where the situation may be safely observed and an action plan developed without unnecessary time constraints.

Vorbeck ND4 Node Networks with the HD4 Harness:

- Connects hot zone to the cold zone and to team members
- Enables livestreaming video to cold zone and subject matter experts
- Allows you to send and receive live video between team members
- Extends communications into tunnels, factories, dams, and skyscrapers through an advanced self-healing mesh network

FEATURES

- Low light/infrared PTZ camera
- WI-FI hotspot connects mobile devices to the mesh network
- Lightweight rapid-deploy stand
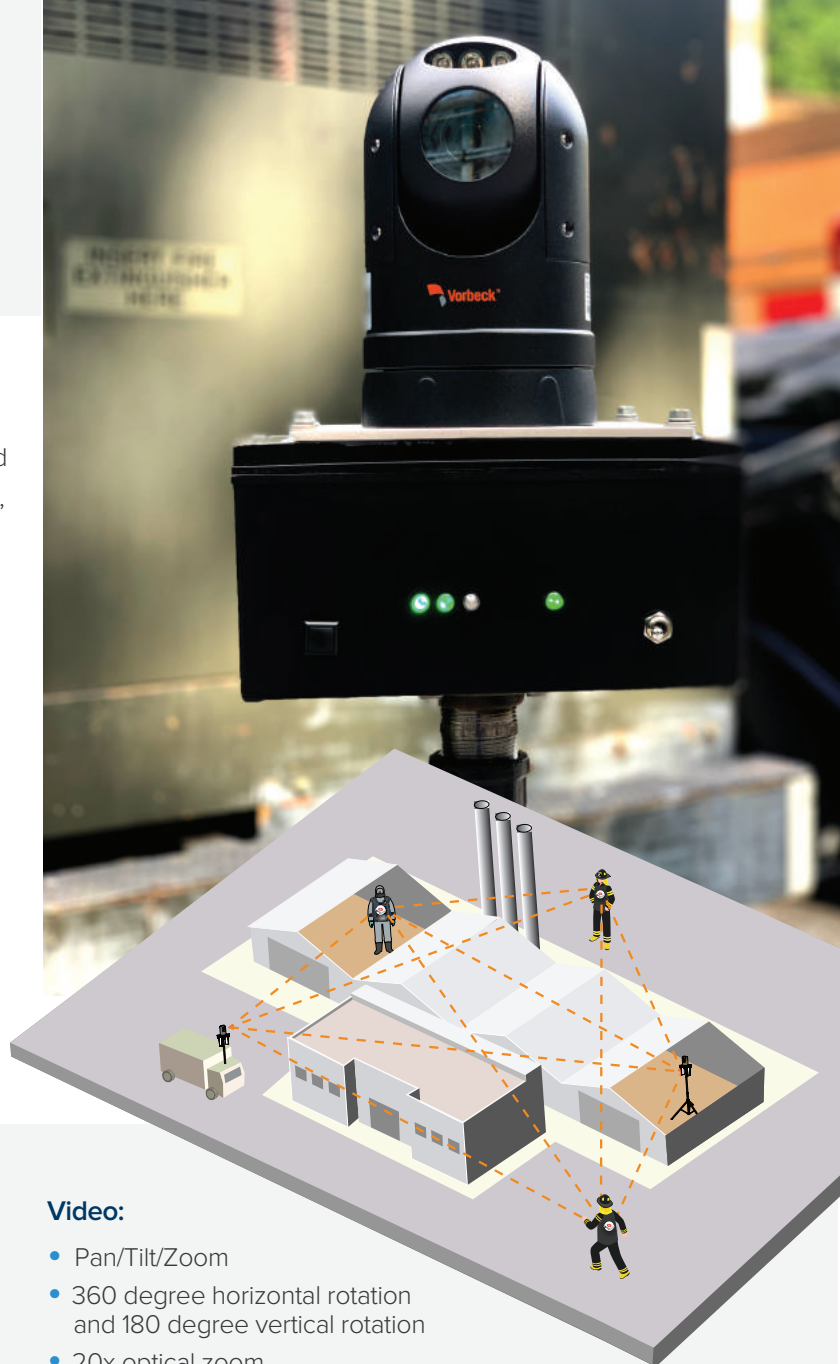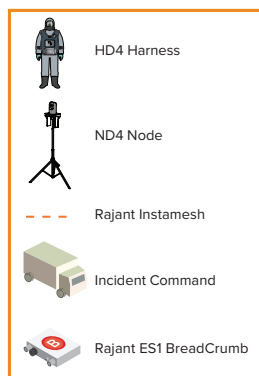
Creating networks where none have existed.

Secure, self-forming ad-hoc mesh networks of HD4 harnesses and Drop Nodes connect team members to incident command even in areas that normally have no RF signal, such as tunnels, skyscrapers or basements. Relying on a proprietary data routing algorithm, InstaMesh® enables continuous and instantaneous routing of wireless and wired connections – across all nodes.

HOT ZONE (factories, buildings, tunnels)
- Low-light camera
- Hands-free voice
- Mobile display

COLD ZONE
- Livestreaming HD video
- Voice (open channel/PTT)
- Ambient audio

HD4 Harness

ND4 Node

Rajant Instamesh

Incident Command

Rajant ES1 BreadCrumb

SPECIFICATIONS

Vorbeck ND4 Communications Node

Height: 3 - 7ft (adjustable)
Antennas: 4
Frequency: 2.4 GHz, 5.8 GHz
Features: Waterproof; Fully decontaminable

Network:
- High bandwidth (up to 300 Mbps) ad-hoc mesh network powered by Rajant's patented InstaMesh technology
- 4x4 Multi-in Multi-out (MIMO) capability
- Can function as local area Wi-Fi access point for connecting Wi-Fi-capable devices to the mesh network

Video:
- Pan/Tilt/Zoom
- 360 degree horizontal rotation and 180 degree vertical rotation
- 20x optical zoom
- IR night vision camera
- 1920*1080P resolution
- IP 66 rated

Battery:
- 12V 6,000 mAh Li-ion battery
- 8 - 10 hours of full operation and field swappable

See how Rajant's mission-critical, fully mobile Kinetic Mesh network can help you take advantage of autonomy today for rapid efficiency and safety gains.
Visit rajant.com/public-safety or **vorbeck.com** to get started.

RAJANT

If it's moving, it's Rajant.
Industrial Wireless Networks Unleashed.