



Hot Zone to Cold Zone Communications

Rapidly Deploying to extend your Mobile Network
LIVESTREAMING VIDEO, VOICE & DATA

Vorbeck's ND4 Drop Node shares the same Rajant InstaMesh® technology as the HD4 harness. It is rapidly deployed to quickly and easily expand the range of your team's on-site network. It has the versatility to be deployed as a low profile package in a confined space or tunnel, to rapidly deploy on a man-portable stand, or to be mounted on a truck boom (to extend mesh coverage over a broad area).

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.

**Low light/ infrared
Pan/Tilt/Zoom Camera**

**Wifi hotspot connects mobile
devices to the mesh network**

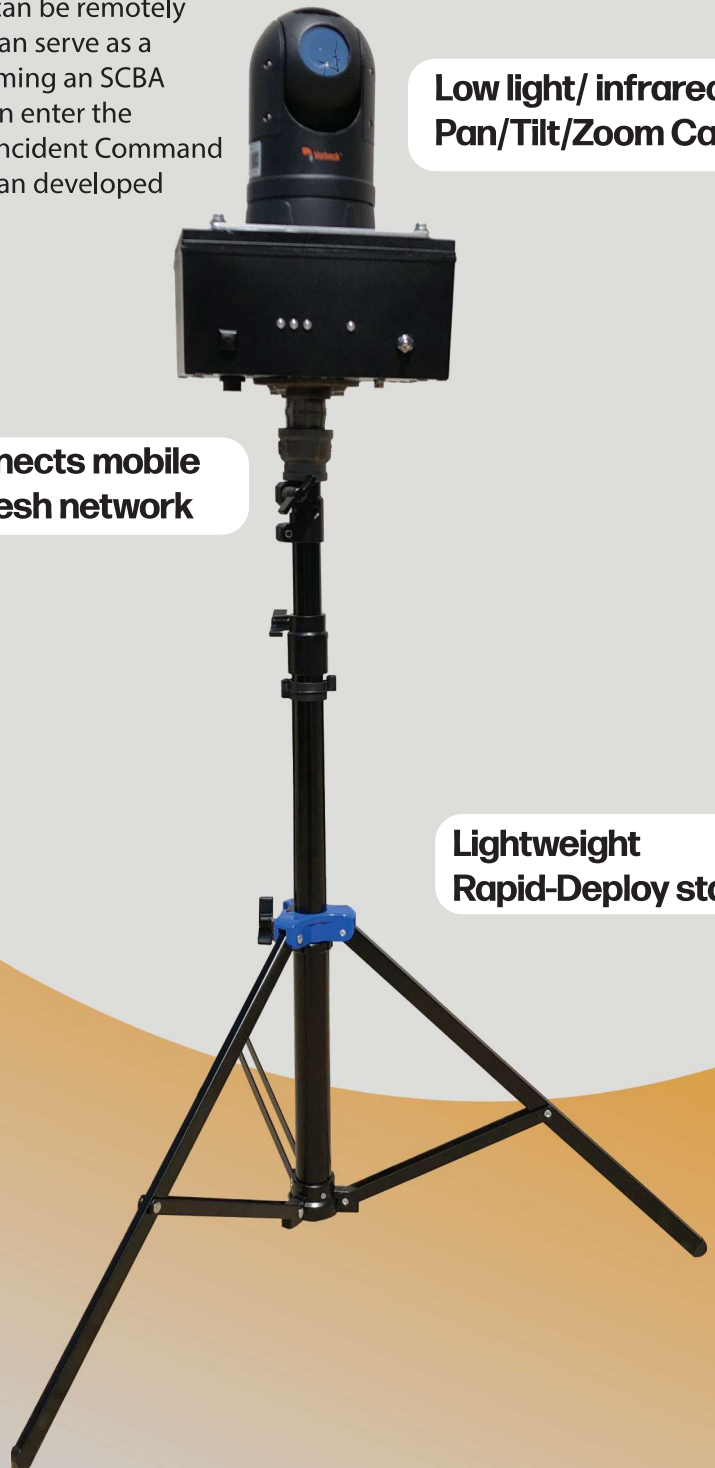
**Lightweight
Rapid-Deploy stand**

HD4 Harness



ND4 Node Networks with the HD4 Harness:

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



Vorbeck ND4

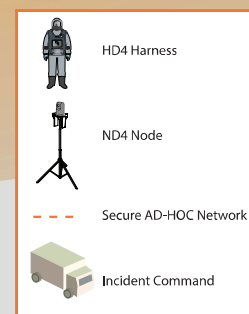
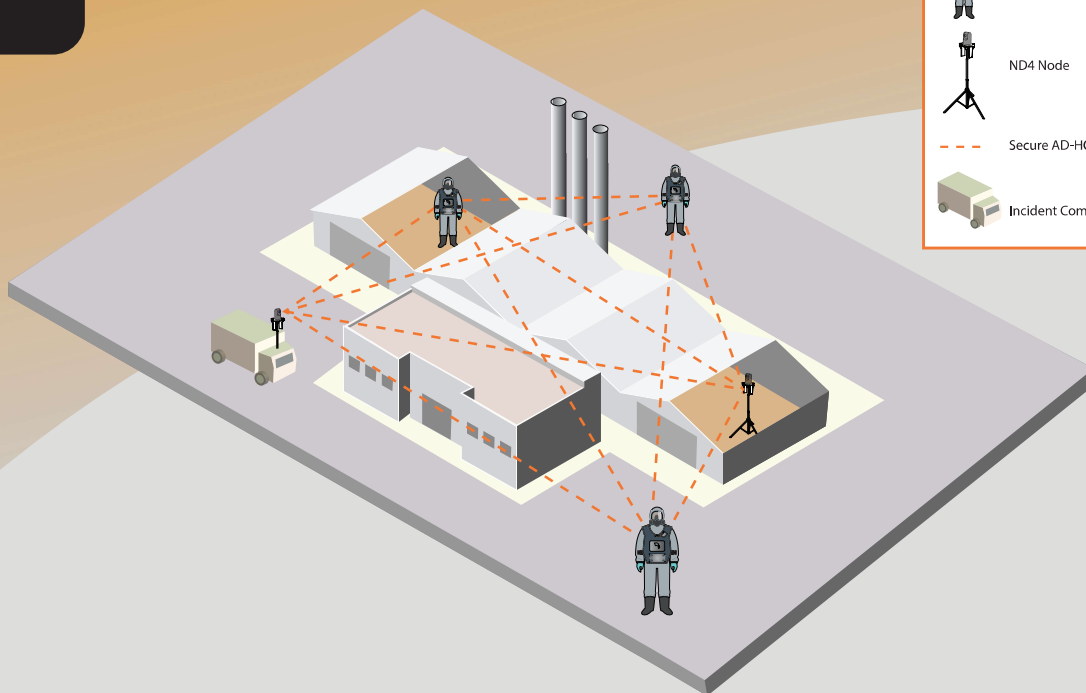
Designed from the ground up for the unique comms challenges faced by today's first responders

HOT ZONE (factories, buildings, tunnels)

- Low-light camera
- Hands-free voice
- Mobile display (video, maps, data)

COLD ZONE

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



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.

Specifications

Vorbeck ND4 communications Node:

- Height: 3 - 7 ft (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 WiFi access point for connecting WiFi-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