Vorbeck HD4 harness provides secure reliable communications in challenging environments to improve safety and effectiveness:
- Connects you to the cold zone and to each other
- 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

Vorbeck HD4 is one-piece of gear that can be put on in seconds:
- Fits comfortably with hazmat suits, SCBA and other gear
- Allows hands-free operation of voice and video
- Expandable with additional third-party sensors
- Made with DuraChem® 500 material

**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

- Waterproof
- Audio visual hub
- Accessory panel
- Embedded electronics
- Mesh radio with up to 300 Mbps data rate
- Fits underneath SCBA
- Decontaminable
- Swapable battery
Designed from the ground up for the unique comms challenges faced by today’s first responders

The Vorbeck HD4 communications harness contains four high-performance embedded antennas, completely removing any antenna protrusions. Vorbeck HD4 forms a secure self-forming mesh network to enable livestreaming video from the attached low-light camera, clear voice, and high-speed data. The Vorbeck HD4 is lightweight, waterproof, and designed with NFPA 1994 certified material to allow for decontamination.

Specifications

**Vorbeck HD4 communications harness**
Sizes: 38 – 50 (adjustable)
Construction: NFPA 1994 certified material
Antennas: 4
Frequency: 2.4 GHz, 5.8 GHz
Features: Made with DuraChem®500 (NFPA 1994 certified material)

Radio
- High bandwidth (up to 300 Mbps) mesh-networking radio powered by Rajant’s patented InstaMesh® networking software
- 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
- Mini IP-66 rated low-light camera
- 1280 x 720 resolution at 30 fps for clear, high quality video in real time
- 2.8mm fixed lens, with an f/2.0 aperture, for a 81° horizontal FOV
- Camera mounted on a quick release housing

Voice
- Push-to-talk or voice-activated open mic headset for hands free operation

Battery
- 12V 7,200mAh Li-ion battery (8-10 hour continuous)