

1. Mobile Unit Set (Req. 31 sets)

Handheld

- MIMO
- Self-forming & Self-healing Mesh
- ≥ 80 Mbps data rate
- Ethernet capable
- 2 antenna ports minimum
- Web browser OR GUI management
- IP 66 rating or better
- 4430-4940 MHz, bandwidth at 5, 10, 20 MHz
- Modulation: COFDM, BPSK, QPSK, 16QAM, 64QAM with at least 4W power
- AES 128 or 256
- GPS
- Built-in Encoder for camera:
 - SDI/HD-SDI OR 3G-SDI OR HDMI OR Ethernet port
 - Compression or Encoding H.264 at minimum
 - Unicast/Multicast OR RTSP/RTP over TCP/Multicast

Waterproof Headset.

- High/Low Volume switch OR Noise Cancelling
- 3.5 mm OR 7.0 mm connector

IP/HDMI Camera rated at IP66 or better

- IP OR HDMI Camera
- 1920x1080 OR 1080p
- CMOS OR 20 Megapixels
- IP66 OR Waterproof
- H.264
- ONVIF OR HDMI+USB connection

2. Stationary Unit Set (Req. 1 set)

- MIMO
- Self-forming & Self-healing Mesh
- ≥ 80 Mbps data rate
- Ethernet capable
- at least 3 antenna ports
- Web browser OR GUI management
- IP66 rated or better
- 12 VDC range
- 4430-4940 MHz, bandwidth at 5, 10, 20 MHz
- Modulation: COFDM, BPSK, QPSK, 16QAM, 64QAM with at least 4W power
- AES 128 OR 256
- GPS
- Built-in Encoder for camera:
 - SDI/HD-SDI OR 3G-SDI OR HDMI OR Ethernet port
 - Compression or Encoding H.264 at minimum
 - Unicast/Multicast OR RTSP/RTP over TCP/Multicast

Waterproof Headset.

- High/Low Volume switch OR Noise Cancelling
- 3.5 mm OR 7.0 mm connector

IP/HDMI Camera rated at IP66 or better

- IP OR HDMI Camera
- 1920x1080 OR 1080p
- CMOS OR 20 Megapixels
- IP66 OR Waterproof
- H.264
- ONVIF OR HDMI+USB connection

Omnidirectional Antennas 4400-4800 MHz, Gain 2 dB or greater. Connector types SMA-Male/TNC-Male or N-Type.

3. IP Mesh Command and Control interface through computers or tablet for configuring of system and monitoring the status. Web-based OR GUI.
4. Setup and Training

Deliverables:

1. 31 Handheld Units (2x2) with:
 - a. 31 Headsets
 - b. 31 Cameras
 - c. Operation and Maintenance Manuals in English & Thai
 - d. Batteries and Chargers for each unit
 - e. Backpacks for equipment transport on missions
 - f. IF not available built in the unit, GPS receivers for each unit
 - g. Antenna sets for each unit
2. 1 Stationary Unit (4x4) with:
 - a. 1 Headset
 - b. 1 Camera
 - c. Omnidirectional Antennas for each port
 - d. Operation and Maintenance Manuals in English & Thai
 - e. IF not available built in the unit, 1 GPS receiver
3. 1 Command Control Unit
 - a. Necessary software pre-installed. Ready for operation with all ordered units.
 - b. Operation and Maintenance Manuals in English & Thai

*Delivery required at 180 days from contract date.