

**Mississippi Department of Marine Resources  
Draganflyer X6  
Communications System Description**

**2.4GHz Data Link**

- Link Type: Helicopter to Ground & Ground to Helicopter (Two-Way)
- Helicopter Antenna: Wired Whip Antenna
- Controller Antenna: Omni-Directional
- Transmission Power (North America): 50mW (+17dBm)
- RF Data Rate: 250kbps
- Receiver sensitivity: -100dBm
- Transmission Technique: DSSS (Direct Sequence Spread Spectrum)
- Frequency band: 2.4000 - 2.4835 GHz
- Certifications: CE, FCC, IC, ETSI
- Data Link Channel Selection: Automatic (13 Channels)

**5.8GHz Video Link**

- Link Type: Helicopter to Ground (One-Way)
- Transmitter Antenna: Omni-Directional
- Receiver Antennas: Omni-Directional & Flat Patch
- Transmission Power: 12dBm
- Transmitter Power Consumption: 500mW
- NTSC and PAL Compatible
- 7 Selectable Channels: 5740MHz, 5760MHz, 5780MHz, 5800MHz, 5820MHz, 5840MHz, 5860MHz

**11 Onboard Sensors**

- 3 Solid State MEMS (Micro-Electro-Mechanical Systems) Gyros
- 3 Solid State MEMS (Micro-Electro-Mechanical Systems) Accelerometers
- 3 Magnetometers (Magnetoresistive Sensors)
- 1 Barometric Pressure Sensor
- 1 GPS Receiver
- GPS Battery Backup: 75mAh Lithium Polymer

**GPS**

- GPS Used For: Position Hold, Location & Velocity Data
- Maximum Satellites Tracked Simultaneously: 16
- Position Update Rate: 4 Hz
- GPS Antenna: Ceramic Patch
- Battery Backup: 75mAh Lithium Polymer

**Black Box Data Recorder**

- Flight Data Recording: On-Board
- Stored To: Removable 1Gb MicroSD
- Memory Card
- Data Recorded: Onboard Sensor Flight Data

(Link quality, Orientation, Altitude, Speed, Direction)