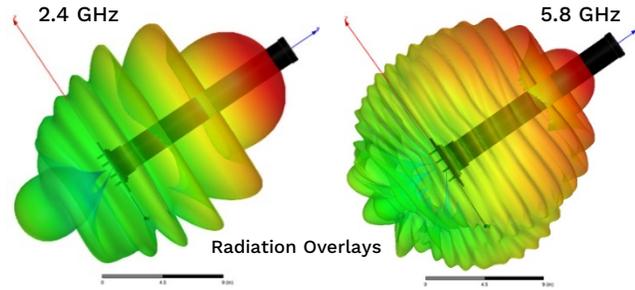
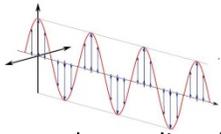


Model: DH2415/5815-SMAF



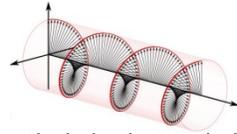
## Antenna Polarization is Critical!



### Linear Polarization

Drones have linearly polarized (LP) antennas. If controller and counter drone antenna is LP (stick, Yagi, or Log Periodic), when drone pitches or rolls, antennas get misaligned.

LP to LP antennas when perpendicular:  
Signal strength down 20dB



### Circular Polarization

With helical Circularly Polarized (CP) Wade Antenna on counter drone system to LP antenna on drone, the signal to drone is much stronger.

CP to LP antenna, any drone orientation:  
Signal strength down 3dB

Wade CP helicals perform FAR better against maneuvering drone to deliver max signal strength:

- > Up to 17 dB stronger signal from Wade CP Helical Antenna, for any drone orientation
- > 570% stronger signal with Wade CP Helicals vs LP antenna

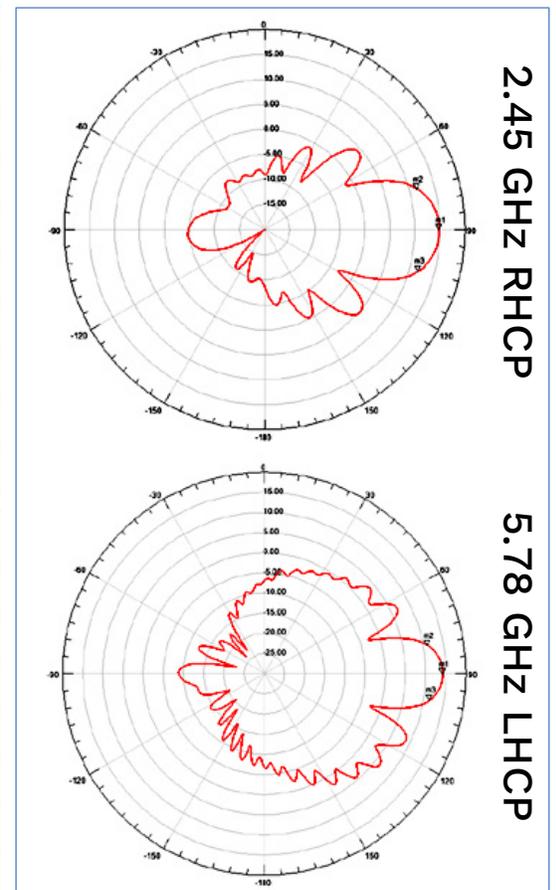
The patented design of our dual frequency 2.4 & 5.8 GHz, circularly polarized Wi-Fi antenna transmits maximum energy in one direction. It's the ideal solution for counter-drone, anti-drone, mining, elevator shafts & tunnels, mesh networks, WiMax, ISM, VOIP, video surveillance, downtown corridors, parking lots, wireless security cameras and warehousing.

### ELECTRICAL

FREQUENCY	2.4 – 2.5 GHz	5.7 – 5.85 GHz
GAIN	15.0 dBic	15.0 dBic
IMPEDANCE	50 Ohm	50 Ohm
VSWR	2:1	2:1
F/B RATIO	>20 dB	>20 dB
POLARIZATION	RHCP	LHCP
HALF POWER BEAMWIDTH	28°	19°
TERMINAL TYPE	SMAF	SMAF
MAX INPUT POWER	50 W	50 W

### MECHANICAL

LENGTH FROM BOTTOM OF GROUND PLANE	16.0 in (41 cm)
RADOME DIAMETER	2.0 in (5.1 cm)
GROUND PLANE DIAMETER	4.5 in (11.5 cm)
WEIGHT	1.0 lb (0.6 kg)
HOUSING	Polycarbonate
COLOR	Flat Black
MOUNTING	4 studs



**EXISTING SINGLE FREQUENCY ANTENNAS**



**H1024**



**H2024**



**H2058**

**ELECTRICAL**

MODEL	H1024	H2024	H2058
FREQUENCY	2.4 – 2.5 GHz	2.4 – 2.5 GHz	5.7 – 5.85 GHz
GAIN	13.8 dBic	17.4 dBic	15.0 dBic
IMPEDANCE	50 Ohm	50 Ohm	50 Ohm
VSWR	1.5:1	1.5:1	1.5:1
F/B RATIO	36 dB	31 dB	33 dB
POLARIZATION	RHCP	RHCP or LHCP	RHCP
BEAMWIDTH	35°	24°	38°
TERMINAL TYPE	N Female	N Female	N Female
MAX INPUT POWER	50 W	50 W	50 W

**MECHANICAL**

LENGTH	12.0 in (30.5 cm)	30.0 in (76.2 cm)	12.0 in (30.5 cm)
GROUND PLANE DIAMETER	5.5 in (14.0 cm)	5.5 in (14.0 cm)	5.5 in (14.0 cm)
HOUSING	Polycarbonate	Polycarbonate	Polycarbonate
WEIGHT	1.75 lb (0.8 kg)	2.5 lb (1.3 kg)	1.4 lb (0.6 kg)
MOUNTING	15/8 in (4.1 cm) OD Mast or Wall	15/8 in (4.1 cm) OD Mast or Wall	15/8 in (4.1 cm) OD Mast or Wall