PWS Helical Antenna

WIRELESS

PROFESSIONAL®

OUE SOUND COMPANY

Originally designed for use in military and satellite communications, Professional Wireless has spent years of R&D refining the Helical Antenna for use in entertainment and sporting events. In fact, the PWS Helical Antenna has been battle tested at the NFL's "Big Game" for years.

The PWS Helical Antenna is part of a new generation of antennas that provide greater bandwidth, longer range gain and more flexibility in wireless communications. Unlike the traditional whip antenna, which transmits or receives signals in a single polarization, the helical antenna distributes signals multi-dimensionally. The circular motion of the RF field emitted by the helical antenna reduces the risk of drop-outs and guarantees the strongest possible signal for receiving and transmitting.

This antenna is particularly useful in large-scale events, where it is virtually impossible to control the orientation of both the sending and receiving ends of communication.

It can be used in a couple of different ways – as an In-Ear Monitor transmitter antenna or with a receiver for wireless microphones.

Typically, performing artists wear a receiver that includes a ¹/₄ wave whip antenna. Any movement can result in a lower quality transmission. With the helical antenna, radio frequency transmits through 360 degrees polarization, providing crystal clear reception in the artists' ear no matter how much they move or where they go on the stage.

The same applies when an artist is using a wireless microphone. A helical antenna can be used with the receiver for greater performance no matter how much the handheld microphone is moved around. Unparalleled drop-out free RF performance for In-Ear Monitors and Wireless Mics, delivering more than double the range over other antennas

TWO Helical MODELS AVAILABLE

- HA-8089 for 460-900 MHZ
- HA-8241 for 900-1200 MHZ

Both models have right hand polarization. Left Hand polarization available by special order.

BENEFITS

- Greater bandwidth
- Greater gain
- More flexibility
- Uni-directional antenna
- Crystal clear audio transmissions

FOR MORE INFORMATION

www.professionalwireless.com/helical

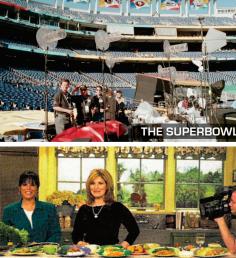
PWS HELICAL ANTENNAS AT WORK:

HE APPRENTICE FINALE

SUPERCROSS

HA-8089	HA-8241
RF Frequency Range / E 460 - 900 MHz	Bandwidth 900 - 1200 MHz
Beamwidth	
60 degrees	65 degrees
Antenna Gain	
14 dBi (on axis)	10 dBi (on axis)
Impedance	
50 ohms	50 ohms
Front-to-Back Ratio / Rea	ar Rejection
30 dB	, 30 dB
DC/AC Power Sou	Ince
Not required	Not required
RF Connector	
BNC female, right angle	BNC female, right angle
Dual Mounting Ada	
5/8"-27 U.S. standard	5/8"-27 U.S. standard
3/8"-16 European standard	3/8"-16 European standard
Construction Mat	
Clear Polycarbonate plastic	Clear Polycarbonate plastic
Net Weight	
3 lbs 11 oz [1.7 kg]	2.75 lbs [1.25 kg]
Shipping Weigh	nt
5 lbs [2.3 kg]	4 lbs [1.8 kg]
Dimensions	
14 x 14 x 14 in	12 x 12 x 12 in [30.5 x 30.5 x 30.5 cm]
[35.5 x 35.5 x 35.5 cm]	

Estimated Operating Temperature -30 degrees F to 180 degrees F [-34 degrees C to 80 degrees C]







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