

B & W**BARKER & WILLIAMSON***Antennas, Masts and Accessories for HF Radio*

www . bwantennas . com

BWDI Folded Dipole Broadband HF Antennas Tactical / Camouflaged ALE and NVIS Compatible



- **Small, light, low cost full range HF broadband antenna**
- **Operate 1.8-30 Mhz with < 2:1 SWR *without a Coupler* in only 90 feet**
- **1 KW power handling capability**
- **NVIS or long range from one antenna**
- **Flat-top, inverted Vee, or sloper configurations**
- **True balanced design - no ground needed**
- **Fast deployment**
- **Field proven for over 25 years**

A wide variety of tactical missions can be handled with this family of antennas. They offer fully automatic, low SWR operation over the entire HF band without need for an antenna tuner/coupler. They are frequency agile, and will operate continuous ALE or frequency hopping. They will propagate excellent NVIS, medium or long range, depending upon the mast configuration.

Besides impressive performance transmitting, this antenna design also delivers excellent reception. The superior signal to noise ratio, loop configuration, and high impedance terminator allows reading the weakest signals that other antennas would lose in the background noise. The design also incorporates automatic bleed off of static noise from wind and thunderstorms.

These antennas are fast and simple to deploy. They are available in a variety of lengths to match your usage and frequency range. The fully camouflaged BWDI series utilizes very flexible wire for extra rapid deployment and take up. The camouflage carry bag, weather proof spools, and MK114-CM are included. Our MK114 mast kits allow a variety of support options.

Whatever your mission profile, we have an HF antenna for you.

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ANTENNA P/N SELECTION

BWDI antennas are made with very fine stranded copper wire, with a colored PVC jacket. They are fully camouflaged, available in Sand (suffix p/n -S) and Green (suffix p/n -G). The extremely flexible wire makes the antenna very easy to deploy and take up, best for tactical situations. All of these antennas *must* be supported in the center with a three pole installation. The MK114-CM center mount is included, allowing attachment to a center mast. The camouflage carry bag and weather proof spools are also included. The 90 foot antenna is the min recommended length to perform nighttime NVIS well. The 180 foot antenna will yield superior performance at the lowest frequencies. Use our MK114 Mast Kits for support.

Model	Length	SWR <2:1
BWDI-20N	20 Ft	14 - 30 Mhz
BWDI-45N	45 Ft	7 - 30 Mhz
BWDI-65N	65 Ft	4 - 30 Mhz
BWDI-90N	90 Ft	1.8 - 30 Mhz
BWDI-180N	180Ft	1.8 - 30 Mhz

SPECIFICATIONS

Electrical

Frequency Range (no coupler/tuner required)
 20 Foot model 14 - 30 Mhz
 45 Foot model 7 - 30 Mhz
 65 Foot model 4 - 30 Mhz
 90 Foot model 1.8 - 30 Mhz
 180 Foot model 1.8 - 30 Mhz

VSWR (without a coupler/tuner)
 1.8 - 3 Mhz < 2:1
 3 - 30 Mhz < 1.6:1

RF Power Rating (output PEP CW/SSB ICAS) .. 1000 Watts

Input Impedance 50 Ohms

Radiation Pattern and Gain
 Azimuth Omnidirectional
 Elevation see patterns below

Polarization
 Flat-Top Horizontal
 Inverted Vee Combination Horizontal and Vertical

Environmental

Temperature (Operating) -40° to +55° C

Wind (3-pole mast) 150 MPH

Mechanical

RF Connector N Connector

Height
 NVIS 12 foot flat-top
 Long Range 24 foot apex inverted Vee

Weight Deployed (90 Foot) 7 Lbs

Deployment Time 2 People - 5 Minutes

Radiation Patterns

