AK-521F-4
Bilogical Antenna Kit
25 MHz - 4 GHz

For rapid deployment along with the mobility of small package, this Bilogical Antenna Kit provides an inexpensive solution to broadband applications.

- Frequency Range: 25 MHz - 4 GHz
- Gain: 6 dBi
- Maximum Continuous Power: 400 Watts
- Impedance: 50 Ω
- Max Radiated Field: 100 V/m
- Connector: N-Type, female
- Mounting Base: 1/4 - 20 Thread, female

**Physical Dimensions**
- Height: 22.2 in. (56.4 cm)
- Width: 38.5 in. (97.8 cm)
- Length: 38.3 in. (97.3 cm)
- Weight: 4.5 lb.'s (2.04 kg)

**Features**
- Hybrid Log Periodic - Biconical Antenna
- Wide Frequency Range of 25 MHz - 4 GHz
- Receive and Transmit
- Individually Calibrated (1, 3 and 10 Meter calibration included, horizontal polarization)
- FCC, MIL-STD, VDE and TEMPEST Testing
- Rugged Construction

The A.H. Systems' SAS-521F-4 Bilogical Antenna is one of our latest antennas, providing an inexpensive solution to wide band applications. Whether testing inside a shielded enclosure or outdoors, this antenna will display efficient performance characteristics through the frequency range of 25 MHz to 4 GHz.

**Included equipment**

<table>
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<tr>
<th>Model Number</th>
<th>Frequency Range</th>
<th>Description</th>
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<tbody>
<tr>
<td>SAS-521F-4</td>
<td>20 MHz – 4 GHz</td>
<td>Folding Bilogical Antenna</td>
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<tr>
<td>SAC-213</td>
<td>up to 5 GHz</td>
<td>3 Meter N-N cable</td>
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<tr>
<td>BTE-510</td>
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<td>Bilogical Tripod Extension</td>
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<td>TSC-521</td>
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<td>Antenna Transit Storage Case</td>
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Case size: 28" x 23" x 10" (71cm x 58cm x 25cm)
Kit weight: 26 lbs. (11.8kg)

**Recommended Accessories**
- PAM-0204 (Preamplifier)
- SAC-211-0.5 (0.5 meter N/N Cable)
- BTE-510 (Bilogical Tripod Extension)
- ATU-510 (Antenna Tripod Unit, wooden)
- AEH-510 (Azimuth and Elevation Head, Plastic)
Antenna Factor
Biological Antenna, Folding
Model: SAS-621F-4

Conversion of meter reading to field strength:
\[ dB_{V/m} = dB_{U/V} + AF + \text{cable loss} \]

A.H. Systems Inc.
9710 Coycroft Ave. Chatsworth, CA 91311
Phone: (818) 998-0223 Fax (818) 998-0892
E-mail: Info@AHSystems.com
Website: http://www.AHSystems.com

Frequency (MHz)

Antenna Factor (dB/m)

- 1 Meter
- 3 Meter
- 10 Meter

VSWR
Biological Antenna
Model SAS-621F-4

Average VSWR 1.45

Frequency (MHz)

VSWR
- 1.5
- 2
- 2.5
- 3
- 3.5
- 4
- 4.5
- 5