Antennas | Probes | Accessories
Preamplifiers | Low-Loss Cables | Recalibration Services

Antennas... and Kits too...

Innovation | Quality | Performance
Phone: (818)998-0223  Fax: (818)998-6892
http://www.AHSystems.com

A.H. Systems
Contents

Featured Products at A.H. Systems .................. 3
Quality Statement ........................................ 4
Rentals, Recals, Warranty and more ............... 5
Log Periodic Antennas ................................. 6
Biconical Antennas ...................................... 7
Monopole Antennas ...................................... 8
H-Field Rod Antennas ................................. 8
Loop Antennas ............................................ 9
Double Ridge Guide Horn Antennas ................. 10
Standard Gain Hcrn Antennas ....................... 11
Antenna Kits ............................................ 12
Shielding Effectiveness Kits ......................... 13
Bilogical Antennas and Kits ......................... 14
Horn Antenna Kit ....................................... 15
Tuned Dipole Sets ...................................... 16
Sleeve Dipole Antennas and Kits .................... 16
VHF / UHF Dipole Set .................................. 17
Broadband Current Probes ............................ 18
Current Probe Fixtures ............................... 18
Injection Current Probes .............................. 19
Broadband Preamplifiers .............................. 20
Low-Loss High-Frequency Cables ................... 20
Tripods and Accessories .............................. 21
Worldwide Sales Representatives .................. 22
Antenna Tripod
(non-metallic, non-reflective)

We're excited to unveil our new ATU-514 "non-magnetic and non-reflective" antenna tripod, a brand-new product made especially for compliance testing. This collapsible tripod is built with all non-metallic materials that will not influence your antenna measurements.

- Rugged construction
- 50 lb. load capacity
- Adjustable height up to 2 Meters

40 GHz Horn Antenna

The SAS-574 DRG Horn manufacturing process changed from dip brazing to 100% machining. This allows for a more accurate and repeatable antenna performance that is critical at the higher frequencies.

- 18 GHz - 40 GHz
- High gain and low VSWR
- Improved Rugged Construction

AK-40G
(general purpose antenna kit)

The Best frequency range and performance in one case! The AK-40G antenna kit is compact, giving you the freedom to test all over....! You won’t compromise on performance thanks to the six antennas, two current probes and a partridge in a... well actually there aren’t any birds but the case has extra cutouts for optional preamplifiers and room for additional cables and adapters. Endowing you with the tools to complete any test.

- 20 Hz - 40 GHz
- Individually Calibrated
- Rugged Construction
To our present and future customers,

A.H. Systems specializes in the design, development, manufacturing and calibration of quality, reliable equipment for EMC testing.

The objective of our company is to supply innovative quality products that are fit for use and meet or exceed the desired performance standards required by our customers. We are also proud to provide outstanding technical support for information, sales, repairs and calibrations.

Our customers expect safe, reliable products at optimum costs, delivered on time.

In order to achieve these objectives, our company is totally committed to maintaining a quality management and assurance system reflective to the ISO 9001 model. This has enabled us to increase our technical and manufacturing capabilities insuring our customers’ satisfaction.

The successful operation of our system relies upon the communication, cooperation and involvement of all our personnel, on every level. This commitment to excellence provides the continued success and improvement of our company.

Thanks for using our products. We stand ready to support you in fulfilling your EMC requirements.

Sincerely,

Arthur C. Cohen
President
A.H. Systems, Inc.
Changes

The information presented herein was current at the time of printing. All specifications, characteristics, and models set forth in this catalog are subject to change without notice. Please call A.H. Systems for additional information and current pricing.

Certification

The materials used in fabrication of our products have been thoroughly inspected. To the best of our knowledge and belief, they conform to specification requirements of the applicable purchase. All non-conforming materials are removed. Calibrations traceable to NIST are maintained in our facility for three (3) years for future reference.

Shipments

NEXT-DAY, ON-TIME DELIVERY

Shipments within the USA are sent directly from our facility and are made F.O.B. factory (Chatsworth, CA. USA), shipments outside the USA are EXW. A.H. Systems will select the shipping method on the basis of economy and delivery requirements unless directed otherwise at the time the order is placed. Shipping charges can be prepaid and added to the invoice.

Rentals

Rentals are subject to product availability. Rental equipment must be returned in good condition with all manuals and calibration data included. Rental is based on one (1) month. We do not pro-rate for early returns. Rental items that are not returned to the facility by the due date will be billed for an additional months rental price. Customers will incur all charges for damaged or missing equipment and manuals. Payment by credit card only.

Recalibrations

Annual recalibration is important to ensure repeatable and reliable data. At our facility, we calibrate our own antennas, as well as, most other brand antennas in accordance with ARP, ANSI, and IEEE specifications. Calibration data can be provided for 1, 3 and 10 meter distances, horizontal and vertical.

Warranty

A.H. Systems Inc. warrants that our Antennas, Sensors and Probes will be free from defects in materials and workmanship for a period of three (3) years. All other products delivered under contract will be warranted for a period of two (2) years. Damage caused by excessive signals at the product’s input is not covered under the warranty. A.H. Systems’ obligation under this warranty shall be limited to repairing or replacing, F.O.B. Chatsworth, California, each part of the product which is defective, provided that the buyer gives A.H. Systems notice of such defect within the warranty period commencing from the delivery of the product by A.H. Systems.

The remedy set forth herein shall be the only remedy available to the buyer and in no event shall A.H. Systems be liable for direct, indirect, incidental or consequential damages.

This warranty shall not apply to any part of the product which, without fault of A.H. Systems has been subject to alteration, failure caused by a part not supplied by A.H. Systems, accident, fire or other casualty, negligence, misuse or normal wear of materials.

Except for the warranty set forth above, there are no other warranties, expressed or implied, with respect to the condition of the product or its suitability for the use intended for it by the end user.

For prompt service, please contact our service department for instructions and a Return Material Authorization before shipping equipment back to A.H. Systems.
Log Periodic Antennas
Maximum Gain, Low VSWR & High Power
These antennas display efficient performance throughout their broad frequency range.

80 MHz - 7 GHz

A.H. Systems offers 13 Log Periodic Antennas. Each antenna is lightweight, compact and has been manufactured for maximum gain, low VSWR and high power handling capabilities. Whether testing inside a shielded enclosure or outdoors, these antennas display efficient performance characteristics through the broad frequency range of 80 MHz to 7 GHz.

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range (MHz)</th>
<th>Typical Antenna Factor</th>
<th>Max Cont. Pwr. in (Watts)</th>
<th>Max Radiated Field (V/M)</th>
<th>Avo. VSWR</th>
<th>Length</th>
<th>Width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS-510-2</td>
<td>290-2000</td>
<td>14-32</td>
<td>1000</td>
<td>200</td>
<td>1.45</td>
<td>22.6&quot; / 57.5cm</td>
<td>20.1&quot; / 51.1cm</td>
<td>1.4lbs / 0.64kg</td>
</tr>
<tr>
<td>SAS-510-4</td>
<td>290-4000</td>
<td>15-37</td>
<td>1000</td>
<td>200</td>
<td>1.66</td>
<td>23.8&quot; / 60.4cm</td>
<td>20.1&quot; / 51.1cm</td>
<td>1.5lbs / 0.68kg</td>
</tr>
<tr>
<td>SAS-510-7</td>
<td>290-7000</td>
<td>15-47</td>
<td>1000</td>
<td>200</td>
<td>1.70</td>
<td>24.0&quot; / 61.2cm</td>
<td>20.1&quot; / 51.1cm</td>
<td>1.5lbs / 0.69kg</td>
</tr>
<tr>
<td>SAS-512-2</td>
<td>190-2000</td>
<td>11-30</td>
<td>1000</td>
<td>200</td>
<td>1.62</td>
<td>33.2&quot; / 84.4cm</td>
<td>29.5&quot; / 74.9cm</td>
<td>2.2lbs / 1.0kg</td>
</tr>
<tr>
<td>SAS-512-4</td>
<td>190-4000</td>
<td>11-37</td>
<td>1000</td>
<td>200</td>
<td>1.61</td>
<td>34.3&quot; / 87.1cm</td>
<td>29.5&quot; / 74.9cm</td>
<td>2.3lbs / 1.04kg</td>
</tr>
<tr>
<td>SAS-512-7</td>
<td>190-7000</td>
<td>11-43</td>
<td>1000</td>
<td>200</td>
<td>1.58</td>
<td>34.6&quot; / 88.0cm</td>
<td>29.5&quot; / 74.9cm</td>
<td>2.3lbs / 1.04kg</td>
</tr>
<tr>
<td>SAS-512F-2*</td>
<td>190-2000</td>
<td>11-30</td>
<td>325</td>
<td>100</td>
<td>1.64</td>
<td>33.2&quot; / 84.4cm</td>
<td>29.5&quot; / 74.9cm</td>
<td>2.2lbs / 1.0kg</td>
</tr>
<tr>
<td>SAS-512F-4*</td>
<td>190-4000</td>
<td>11-38</td>
<td>325</td>
<td>100</td>
<td>1.62</td>
<td>34.3&quot; / 87.1cm</td>
<td>29.5&quot; / 74.9cm</td>
<td>2.3lbs / 1.04kg</td>
</tr>
<tr>
<td>SAS-512F-7*</td>
<td>190-7000</td>
<td>11-46</td>
<td>325</td>
<td>100</td>
<td>1.64</td>
<td>34.6&quot; / 88.0cm</td>
<td>29.5&quot; / 74.9cm</td>
<td>2.3lbs / 1.04kg</td>
</tr>
<tr>
<td>SAS-515</td>
<td>120-4000</td>
<td>10-39</td>
<td>1000</td>
<td>200</td>
<td>1.60</td>
<td>44.3&quot; / 112.5cm</td>
<td>55.9&quot; / 142cm</td>
<td>3.9lbs / 1.77kg</td>
</tr>
<tr>
<td>SAS-517</td>
<td>80-4000</td>
<td>5-36</td>
<td>1000</td>
<td>200</td>
<td>1.65</td>
<td>56.3&quot; / 143cm</td>
<td>72.3&quot; / 183cm</td>
<td>4.6lbs / 2.09kg</td>
</tr>
<tr>
<td>SAS-519-4</td>
<td>650-4000</td>
<td>21-39</td>
<td>700</td>
<td>200</td>
<td>1.72</td>
<td>11.0&quot; / 28.1cm</td>
<td>8.2&quot; / 20.8cm</td>
<td>0.7lbs / 0.32kg</td>
</tr>
<tr>
<td>SAS-519-7</td>
<td>650-7000</td>
<td>21-45</td>
<td>700</td>
<td>200</td>
<td>1.63</td>
<td>11.6&quot; / 29.4cm</td>
<td>8.2&quot; / 20.8cm</td>
<td>0.7lbs / 0.32kg</td>
</tr>
</tbody>
</table>

* Folding Antenna
Optional Preamplifiers available...see page 20
Biconical Antennas
Broadband Dipole
You asked for convenience...
Our folding Biconical Antenna is a unique, one of a kind designed and manufactured for portability.

20 MHz - 18 GHz

Our 7 models of Biconical Antennas and 2 Broadband Dipole Antennas operate efficiently over the frequency range of 20 MHz - 18 GHz. Suitable for FCC, MIL-STD, VDE, TEMPEST and Immunity testing, each model provides repeatable and reliable measurements. For rapid deployment along with the mobility of a small package, the folding Biconical elements can be closed similar to an umbrella allowing the antenna to be contained in a compact transit storage case. The ability to input up to 1 kW of continuous power makes the Biconical a versatile performer.

Features
- Wide Operating Frequency 20 MHz - 18 GHz
- Radiated and Immunity
- Individually Calibrated
- Rugged Construction
- FCC, MIL-STD, VDE and TEMPEST Testing
- High Power Input Capability
- Rigid or Folding Elements

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range (MHz)</th>
<th>Typical Antenna Factor (dB/m)</th>
<th>Max Cont. Pwr. in (Watts)</th>
<th>Max Radiated Field (V/M)</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS-530*</td>
<td>160-500</td>
<td>17-26</td>
<td>1</td>
<td>5</td>
<td>24° / 61 cm</td>
<td>21° / 53 cm</td>
<td>2.5 lbs / 1.1 kg</td>
</tr>
<tr>
<td>SAS-530H*</td>
<td>160-500</td>
<td>15-25</td>
<td>300</td>
<td>50</td>
<td>24° / 54 cm</td>
<td>21° / 53 cm</td>
<td>2.5 lbs / 1.1 kg</td>
</tr>
<tr>
<td>SAS-540</td>
<td>20-330</td>
<td>8-27</td>
<td>1</td>
<td>2</td>
<td>52.8° / 134 cm</td>
<td>29° / 74 cm</td>
<td>4.3 lbs / 1.9 kg</td>
</tr>
<tr>
<td>SAS-542**</td>
<td>20-330</td>
<td>8-27</td>
<td>1</td>
<td>2</td>
<td>52.8° / 134 cm</td>
<td>29° / 74 cm</td>
<td>4.3 lbs / 1.9 kg</td>
</tr>
<tr>
<td>SAS-543</td>
<td>20-300</td>
<td>8-23</td>
<td>1000</td>
<td>100</td>
<td>52.6° / 133 cm</td>
<td>17° / 43 cm</td>
<td>6.0 lbs / 2.7 kg</td>
</tr>
<tr>
<td>SAS-544</td>
<td>20-300</td>
<td>5-29</td>
<td>300</td>
<td>20</td>
<td>52.8° / 134 cm</td>
<td>29° / 74 cm</td>
<td>4.3 lbs / 1.9 kg</td>
</tr>
<tr>
<td>SAS-544F**</td>
<td>20-300</td>
<td>5-29</td>
<td>300</td>
<td>20</td>
<td>52.8° / 134 cm</td>
<td>29° / 74 cm</td>
<td>4.3 lbs / 1.9 kg</td>
</tr>
<tr>
<td>SAS-545</td>
<td>20-1000</td>
<td>18-42</td>
<td>200</td>
<td>1</td>
<td>14.3° / 36.3 cm</td>
<td>15° / 38 cm</td>
<td>1.6 lbs / 0.725 g</td>
</tr>
<tr>
<td>SAS-547</td>
<td>1-18 GHz</td>
<td>32-59</td>
<td>50</td>
<td>10</td>
<td>2.3° / 5.7 cm</td>
<td>14.3° / 36 cm</td>
<td>1.0 lbs / 0.454 g</td>
</tr>
</tbody>
</table>

* Broadband Dipole Antenna
** Folding Elements
Optional Preamplifiers available...see page 20

A.H Systems is "Making the case for more reliable EMI Testing."
We can create custom cases to fit all of your antenna needs.
Monopole Antennas
Superior Performance

Quality construction with a flat antenna factor makes these monopole antennas an ideal choice for compliance testing.

100 Hz - 60 MHz

The 4 models of Monopole Rod Antennas provide superior performance in electric field measurements. The Active Monopole can drive any receiver with 50 ohm input impedance and will perform FCC, MIL-STD, NSA 65-6 and TEMPEST tests. The Passive Rod is used for transmitting to perform Shielding Effectiveness and Immunity testing. All Monopole antennas come with an 18" ground plane (24" available) with a standard 1/4-20 threaded tripod mount and a telescoping monopole element. Each monopole antenna is individually calibrated per ECSM in IEEE std. 291 and ARP-958. An Equivalent Capacitance Fixture is also available for calibration of the monopole antennas.

Features
- Broad Frequency Range of 100 Hz to 60 MHz
- Individually Calibrated
- FCC, MIL-STD and TEMPEST Testing
- High Sensitivity
- Battery Powered
- Rugged Construction

H-Field Rod Antennas
High Sensitivity

For applications where high sensitivity is required, A.H. Systems set of H-Field Rods provides an accurate standard for magnetic field testing. Our H-Field Rods are available individually or in a set of four to cover the frequency range of 100 Hz to 30 MHz. For those situations when improved sensitivity is desired in magnetic field testing, the H-Field Rod is an effective alternative to traditional Loop Antennas. One amplifier pre-assembled to a metallic ground plane covers the entire frequency range and can be used with any or all of the H-Field Rod Antennas.

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range</th>
<th>Typical AF (dB/m)</th>
<th>Max Cont. Power (Watts)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS-550-1B</td>
<td>9 kHz - 60 MHz</td>
<td>2 to 0</td>
<td>N/A</td>
<td>4.7 lb / 2.1 kg</td>
</tr>
<tr>
<td>SAS-550-2B</td>
<td>100 Hz - 60 MHz</td>
<td>27 to 0</td>
<td>N/A</td>
<td>4.7 lb / 2.1 kg</td>
</tr>
<tr>
<td>SAS-551</td>
<td>9 kHz - 40 MHz</td>
<td>88 to 14</td>
<td>1000</td>
<td>3.5 lb / 1.6 kg</td>
</tr>
<tr>
<td>EHA-51B *</td>
<td>1 kHz - 60 MHz</td>
<td>5.7 to 2</td>
<td>5.7 lb / 2.6 kg</td>
<td></td>
</tr>
<tr>
<td>ECF-10</td>
<td>100 Hz - 60 MHz</td>
<td></td>
<td>0.1 lb / 0.05 kg</td>
<td></td>
</tr>
</tbody>
</table>

* Dual Rod / Loop preamplifier

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range</th>
<th>Magnetic AF (dB/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFR-1</td>
<td>100 Hz-100 KHz</td>
<td>27 to -40</td>
</tr>
<tr>
<td>HFR-2</td>
<td>20 KHz-2 MHz</td>
<td>-8 to -48</td>
</tr>
<tr>
<td>HFR-3</td>
<td>1 MHz-10 MHz</td>
<td>-20 to -48</td>
</tr>
<tr>
<td>HFR-4</td>
<td>5 MHz-30 MHz</td>
<td>-20 to -43</td>
</tr>
<tr>
<td>EHA-50B *</td>
<td>100 Hz-30 MHz</td>
<td></td>
</tr>
</tbody>
</table>

* Battery Powered Amplifier
Loop Antennas
High Performance
High performance Loop Antennas for a wide range of magnetic field testing.

20 Hz - 30 MHz

We design, manufacture and deliver high performance Loop Antennas for a wide range of magnetic field testing. Whether used in a set to measure shielding effectiveness per MIL-STD 285 or NSA 65-6 or testing individually to satisfy specific requirements, the Loop Antenna is an efficient, low cost solution.

Features
- Radiated and Immunity
- Individually Calibrated
- FCC, MIL-STD, VDE and TEMPEST Testing
- Battery Powered
- Rugged Construction

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range</th>
<th>Magnetic Correction Factor</th>
<th>Max Continuous Input</th>
<th>Loop Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS-560</td>
<td>20 Hz - 2 MHz</td>
<td>86 to 21</td>
<td>N/A</td>
<td>5.25&quot; / 13.3cm</td>
</tr>
<tr>
<td>SAS-561</td>
<td>20 Hz - 50 KHz</td>
<td>N/A</td>
<td>10 Amps</td>
<td>4.72&quot; / 12cm</td>
</tr>
<tr>
<td>SAS-562B</td>
<td>10 KHz - 30 MHz</td>
<td>28 to -60</td>
<td>N/A</td>
<td>18&quot; / 46cm</td>
</tr>
<tr>
<td>SAS-563B</td>
<td>1 KHz - 30 MHz</td>
<td>48 to -56</td>
<td>N/A</td>
<td>12&quot; / 30.5cm</td>
</tr>
<tr>
<td>SAS-564*</td>
<td>1 KHz - 30 MHz</td>
<td>62 to -22</td>
<td>500 WA&quot;TS 12&quot;</td>
<td>30.5cm</td>
</tr>
<tr>
<td>EHA-51B</td>
<td>1 KHz - 60 MHz</td>
<td>Dual Rod / Loop preamplifier</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*N Connector, All others BNC

AK-HFR Antenna Kit includes one of each H-Field Rods, the EHA-50B, Cable, Battery Charger and a Transit Storage Case. Our portable solution for improved sensitivity.
Case size 28" x 23" x 7" (71cm x 58cm x 18cm)
Kit weight 26 lbs. (11.8kg)
Double Ridge Guide Horn Antennas
Excellent Performance from 170 MHz - 40 GHz

High Gain, Low VSWR, input handling capability of up to 800 Watts CW and rugged design makes these horn antennas excellent for both immunity and emissions testing.

170 MHz - 40 GHz

A.H. Systems Horn Antennas are broadband antennas that offer excellent performance over the frequency range of 170 MHz to 40 GHz. High gain, low VSWR, input power handling capability of up to 800 Watts CW and rugged design make these Horn Antennas excellent for both immunity and Emissions testing.

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range (GHz)</th>
<th>Antenna Factor (dB/m)</th>
<th>Max Cont. Radiated Pwr. in Watts</th>
<th>Max Radiated Field (V/M)</th>
<th>Connector Type</th>
<th>Ave. VSWR</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS-570</td>
<td>0.17 - 1.3</td>
<td>11-33</td>
<td>800</td>
<td>200</td>
<td>N</td>
<td>1.5</td>
<td>36.7° / 93cm</td>
<td>28.7° / 73cm</td>
<td>38.5° / 98cm</td>
<td>22.5lbs / 10.2kg</td>
</tr>
<tr>
<td>SAS-571</td>
<td>0.7 - 18</td>
<td>22-45</td>
<td>300</td>
<td>200</td>
<td>N</td>
<td>1.6</td>
<td>11.0° / 28cm</td>
<td>5.6° / 14cm</td>
<td>9.5° / 24cm</td>
<td>3.5lbs / 1.6kg</td>
</tr>
<tr>
<td>SAS-574</td>
<td>18 - 40</td>
<td>40-41.5</td>
<td>10</td>
<td>150</td>
<td>2.9mm</td>
<td>1.5</td>
<td>3.4° / 8.6cm</td>
<td>1.2° / 3.0cm</td>
<td>1.6° / 4.1cm</td>
<td>0.2lbs / 0.09kg</td>
</tr>
<tr>
<td>SAS-575</td>
<td>1 - 4</td>
<td>20-29</td>
<td>250</td>
<td>200</td>
<td>N</td>
<td>1.5</td>
<td>17° / 43cm</td>
<td>13.3° / 34cm</td>
<td>15.5° / 40cm</td>
<td>15lbs / 6.8kg</td>
</tr>
</tbody>
</table>

Other Models available upon request.
Low-Loss High-Frequency cables required above 10 GHz. See page 20
Optional Preamplifiers available...see page 20

See page 15 for our new Horn Antenna Kit
The Standard Gain Horn Antennas are designed specifically for Emissions and Immunity testing over the frequency range of 0.75 to 40 GHz. Each antenna is linearly polarized and has medium gain, low VSWR and a constant antenna factor. The Standard Gain Horn performance is very precise and predictable through design parameters. Comparisons of measured versus computed antenna factors and gain have been shown to be +/- .5 dB. Therefore, these antennas are considered to be a standard reference, similar to that of a resonant dipole below 1 GHz. The coax-to-waveguide adapter is the only power-limiting component on the antenna and can be removed if high fields are desired. Each Standard Gain Horn antenna comes with a tripod mount, for horizontal or vertical polarity, that adapts to any tripod with ¼-20 male threads.

**Features**
- Constant Antenna Factor
- Medium Gain, Low VSWR
- Lightweight
- Rugged All Weather Construction

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range (GHz)</th>
<th>Typical Antenna Factor (dB/m)</th>
<th>Gain (dBi)</th>
<th>Max Cont. Pwr. in (Watts)</th>
<th>Max Radiated Field (V/M)</th>
<th>Connector Type</th>
<th>Length / Width / Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS-590-13</td>
<td>0.75 - 1.12</td>
<td>16.2</td>
<td>14.0</td>
<td>550</td>
<td>500</td>
<td>N</td>
<td>32.0 / 81cm / 19.6 / 50cm</td>
<td>22.6 / 57cm / 24.0lbs / 10.9kg</td>
</tr>
<tr>
<td>SAS-580</td>
<td>1.2 - 1.70</td>
<td>18.2</td>
<td>14.7</td>
<td>550</td>
<td>700</td>
<td>N</td>
<td>34.4 / 87cm / 14.2 / 30cm</td>
<td>20.0 / 44cm / 21.0lbs / 9.5kg</td>
</tr>
<tr>
<td>SAS-581</td>
<td>1.7 - 2.60</td>
<td>22.1</td>
<td>14.6</td>
<td>500</td>
<td>650</td>
<td>N</td>
<td>27.0 / 65cm / 8.5 / 22cm</td>
<td>11.8 / 30cm / 15.5lbs / 4.8kg</td>
</tr>
<tr>
<td>SAS-582</td>
<td>2.6 - 3.95</td>
<td>29.5</td>
<td>15.0</td>
<td>250</td>
<td>500</td>
<td>N</td>
<td>17.9 / 46cm / 6.0 / 15cm</td>
<td>8.1 / 21cm / 4.8lbs / 2.2kg</td>
</tr>
<tr>
<td>SAS-583</td>
<td>3.95 - 5.85</td>
<td>29.5</td>
<td>14.4</td>
<td>250</td>
<td>500</td>
<td>N</td>
<td>12.0 / 31cm / 3.7 / 9.4cm</td>
<td>5.1 / 13cm / 2lbs / 1.0kg</td>
</tr>
<tr>
<td>SAS-584</td>
<td>5.85 - 8.20</td>
<td>32.2</td>
<td>14.8</td>
<td>250</td>
<td>500</td>
<td>N</td>
<td>8.6 / 22cm / 2.6 / 6.6cm</td>
<td>3.5 / 8.9cm / 1.1lbs / 0.5kg</td>
</tr>
<tr>
<td>SAS-585</td>
<td>8.20 - 12.4</td>
<td>34.7</td>
<td>15.5</td>
<td>250</td>
<td>500</td>
<td>N</td>
<td>7.2 / 18cm / 2.1 / 5.3cm</td>
<td>2.8 / 7.1cm / 0.9lbs / 0.27kg</td>
</tr>
<tr>
<td>SAS-586</td>
<td>12.4 - 18.0</td>
<td>38.9</td>
<td>14.9</td>
<td>200</td>
<td>450</td>
<td>N</td>
<td>4.0 / 10cm / 1.5 / 3.8cm</td>
<td>1.9 / 4.8cm / 0.2lbs / 0.09kg</td>
</tr>
<tr>
<td>SAS-587</td>
<td>18.0 - 26.5</td>
<td>42.2</td>
<td>14.8</td>
<td>50</td>
<td>225</td>
<td>SMA</td>
<td>3.4 / 8.6cm / 0.9 / 2.3cm</td>
<td>1.2 / 3.1cm / 0.2lbs / 0.09kg</td>
</tr>
<tr>
<td>SAS-588</td>
<td>26.5 - 40.0</td>
<td>45.9</td>
<td>14.6</td>
<td>10</td>
<td>100</td>
<td>2.9mm</td>
<td>2.9 / 7.4cm / 0.6 / 1.5cm</td>
<td>0.9 / 2.3cm / 0.1lbs / 0.05kg</td>
</tr>
<tr>
<td>SAS-572</td>
<td>18 - 26.5</td>
<td>37</td>
<td>20.1</td>
<td>50</td>
<td>300</td>
<td>SMA</td>
<td>5.1 / 13cm / 1.7 / 4.3cm</td>
<td>2.2 / 5.6cm / 0.2lbs / 0.09kg</td>
</tr>
<tr>
<td>SAS-573</td>
<td>26.5 - 40.0</td>
<td>40</td>
<td>20.2</td>
<td>10</td>
<td>150</td>
<td>2.9mm</td>
<td>4.1 / 10cm / 1.1 / 2.8cm</td>
<td>1.4 / 3.6cm / 0.1lbs / 0.05kg</td>
</tr>
</tbody>
</table>

SAS-580 series antennas are also available in 10 dBi and 20 dBi of Gain. SAS-580 only available in 10 dBi and 15 dBi. Low-Loss High-Frequency cables required above 10 GHz. Optional Preamplifiers available.
Antenna Kits
All you need in one small package.
Constantly changing for today's dynamic environment, A.H. Systems presents the proven line of Antenna Kits. Designed to meet the needs of your various testing requirements.

20 Hz - 40 GHz

A.H. Systems provides many models of Portable Antenna Kits, each containing all the necessary Antennas, Current Probes and Cables to satisfy numerous customer requirements. Our Antenna Kits are designated as a function of their upper E-field testing limits. Excellent performance, portability (compact size and lightweight), along with ease in setup make all of the Antenna Kits a reliable choice for indoor or field testing. Loss and breakage are virtually eliminated as each component has a specific storage compartment within the case. All Antenna Kits are accompanied with a Tripod and Azimuth & Elevation Head, both contained in a Tripod Carrying Case.

Antenna Case size is 28" x 23" x 10" (71cm x 58cm x 25cm)
Tripod Case size is 8" Dia. x 48" (20cm Dia. x 122cm) Weight: 19lbs. (8.6kg) with tripod

<table>
<thead>
<tr>
<th></th>
<th>AK-2G</th>
<th>AK-4G</th>
<th>AK-7G</th>
<th>AK-18G</th>
<th>AK-26G</th>
<th>AK-40G</th>
</tr>
</thead>
<tbody>
<tr>
<td>20Hz - 2GHz</td>
<td>X</td>
<td>20Hz - 4GHz</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20Hz - 7GHz</td>
<td>20Hz - 18GHz</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20Hz - 26GHz</td>
<td>20Hz - 40GHz</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Frequency Ranges from 20 Hz to 40 GHz
- FCC, MIL-STD, VDE and TEMPEST Testing
- Each Antenna Individually Calibrated
- Contained in Rugged Carrying Case

Features

- Frequency Ranges from 20 Hz to 40 GHz
- FCC, MIL-STD, VDE and TEMPEST Testing
- Each Antenna Individually Calibrated
- Contained in Rugged Carrying Case

SAS-510-2 290 MHz - 2000 MHz X
SAS-510-4 290 MHz - 4000 MHz X
SAS-510-7 290 MHz - 7000 MHz X
SAS-542 20 MHz - 330 MHz X X X X X X
SAS-550-1B 9 kHz - 60 MHz X X X X X X
SAS-560 20 Hz - 2 MHz X X X X X X
SAS-571 700 MHz - 18 GHz X X
SAS-572 18 GHz - 26.5 GHz X
SAS-574 18 GHz - 40 GHz X
BCP-610 20 Hz - 20 MHz X X X X X X
DCP-611 10 kHz - 150 MHz X X X X X X
SAC-213 up to 5 GHz X
SAC-211 up to 10 GHz X X
SAC-18G-3 up to 18 GHz X X
SAC-26G-3 up to 26 GHz X
SAC-40G-1.5 up to 40 GHz X
ADP-202 X X X X X X
ADP-203 X
ADP-206 2

Case weight with antennas 35lbs / 15.9kg 35lbs / 15.9kg 35lbs / 15.9kg 35lbs / 15.9kg 38lbs / 17.2kg 39lbs / 17.7kg 39lbs / 17.7kg

All kits come with TSC-542, TCC-510, ATU-510, AEH-510
Custom cases available
Optional Preamplifiers available...see page 20
Announcing our new A.H. Systems Shielding Effectiveness Kits. A portable and economical approach to having all the antennas required for most shielding effectiveness testing. Optional Preamplifier cutouts are included in the foam for a greater dynamic range. For ease and convenience, these Kits are an ideal portable solution. Our kits are available with upper frequencies of 2, 4, 7 or 18 GHz.

**Antenna Case size:**
28" x 23" x 10" (71cm x 58cm x 25cm)
Kit weight: 35lbs (15.9kg)
Tripod Case size:
8" Dia. x 48" long (20cm Dia. x 122cm)
Weight: 19lbs (8.6kg) with tripod

**Features**
- Frequency Range of 1 kHz - 18 GHz
- Receiving and transmitting
- Individually Calibrated
- FCC or VDE Site Attenuation
- Emissions Testing

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range</th>
<th>AK-285R 1 KHz - 18 GHz</th>
<th>AK-285T 1 KHz - 18 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS-510-2</td>
<td>290 MHz - 2000 MHz</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>SAS-544F</td>
<td>20 MHz - 300 MHz</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>SAS-551</td>
<td>9 kHz - 40 MHz</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>SAS-564</td>
<td>1 kHz - 30 MHz</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>EHA-51B</td>
<td>1 kHz - 60 MHz</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>SAS-571</td>
<td>700 MHz - 18 GHz</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>SAC-18G-3</td>
<td>up to 18 GHz</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ADP-201</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ADP-202</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>TSC-285R</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>TSC-285T</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>TGC-510</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ATU-510</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>AEH-510</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Optional Preamplifiers available ...see page 20

All New!
Bilological Antenna Kits
Portable Broadband solution
For rapid deployment along with the mobility of small package, the Bilological Antenna Kits, AK-521F- (2, 4 or 7), provides an inexpensive solution to broadband applications.

25 MHz - 7 GHz

Each Bilological Antenna Kit, AK-521F- (2, 4 or 7), comes with a Folding Bilological Antenna, tripod extension rod, cable, screwdriver and a rugged carrying case with an optional preamplifier cutout.

Bilological Antennas
The 8 models of Bilological Antennas operate efficiently over the frequency range of 25 MHz to 7 GHz. Suitable for FCC, MIL-STD, VDE, TEMPEST and Immunity testing, each Bilological Antenna provides consistent and reliable measurements. For rapid deployment along with the mobility of a small package, the folding Bilological Antenna is folded in half, allowing the antenna to be contained in a rugged compact carrying case. The Bilological Antenna eliminates the need for antenna switching and therefore makes this unique hybrid a versatile performer.

Case size 28” x 23” x 10”. (71cm x 58cm x 25cm)
Kit weight 26 lbs. (11.8kg)

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range (MHz)</th>
<th>Antenna Factor (dBkm)</th>
<th>Max Cont. Pwr. in Watts</th>
<th>Max Radiated Field (V/m)</th>
<th>Ave. VSWR</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS-521-2</td>
<td>25-2000</td>
<td>7-30</td>
<td>1000</td>
<td>100</td>
<td>1.55</td>
<td>37.3”</td>
<td>95cm</td>
<td>38.5” / 96cm</td>
<td>22.2” / 56cm</td>
</tr>
<tr>
<td>SAS-521-4</td>
<td>25-4000</td>
<td>7-37</td>
<td>1000</td>
<td>100</td>
<td>1.66</td>
<td>38.3” / 98cm</td>
<td>38.5” / 98cm</td>
<td>22.2” / 56cm</td>
<td>4.5lbs / 2.1kg</td>
</tr>
<tr>
<td>SAS-521-7</td>
<td>25-7000</td>
<td>7-47</td>
<td>1000</td>
<td>100</td>
<td>1.75</td>
<td>39.0” / 99cm</td>
<td>38.5” / 98cm</td>
<td>22.2” / 56cm</td>
<td>4.5lbs / 2.1kg</td>
</tr>
<tr>
<td>SAS-521F-2</td>
<td>25-2000</td>
<td>7-31</td>
<td>400</td>
<td>100</td>
<td>1.65</td>
<td>37.3” / 95cm</td>
<td>38.5” / 98cm</td>
<td>22.2” / 56cm</td>
<td>4.4lbs / 2.0kg</td>
</tr>
<tr>
<td>SAS-521F-4</td>
<td>25-4000</td>
<td>7-37</td>
<td>400</td>
<td>100</td>
<td>1.60</td>
<td>38.3” / 98cm</td>
<td>38.5” / 98cm</td>
<td>22.2” / 56cm</td>
<td>4.5lbs / 2.1kg</td>
</tr>
<tr>
<td>SAS-521F-7</td>
<td>25-7000</td>
<td>7-47</td>
<td>400</td>
<td>100</td>
<td>1.62</td>
<td>39.0” / 99cm</td>
<td>38.5” / 98cm</td>
<td>22.2” / 56cm</td>
<td>4.5lbs / 2.1kg</td>
</tr>
<tr>
<td>SAS-522-2</td>
<td>25-2000</td>
<td>3-30</td>
<td>1000</td>
<td>100</td>
<td>1.85</td>
<td>57.0” / 145cm</td>
<td>59.7” / 152cm</td>
<td>35.1” / 89cm</td>
<td>7.6lbs / 3.45kg</td>
</tr>
<tr>
<td>SAS-522-5</td>
<td>25-5000</td>
<td>3-41</td>
<td>1000</td>
<td>100</td>
<td>1.73</td>
<td>58.0” / 147cm</td>
<td>59.7” / 152cm</td>
<td>35.1” / 89cm</td>
<td>7.7lbs / 3.49kg</td>
</tr>
</tbody>
</table>

* Folding Antenna
Optional Preamplifiers available ...see page 20
Horn Antenna Kit
High Frequency in a small package
These Horn Antennas display excellent performance in a small portable case.

700 MHz - 40 GHz

Model AK-571-4 Antenna Kit provides a convenient solution for increased frequency requirements. As specifications include higher test frequency requirements so does the need for an accurate antenna solution. This Antenna Kit includes one SAS-571, one SAS-574, Low-Loss cables and adapters in an antenna storage case with several extra cutouts for optional preamplifiers. All antennas, cables and preamplifiers are individually calibrated.

Case size 21 1/2" x 17" x 9". (54cm x 43cm x 23cm)
Kit weight 12 lbs. (5.4kg)

Low-Loss High-Frequency cables required above 10 GHz and optional Preamplifiers available...see page 20

Recommended Options
- SAC-18G-0.5 (0.5 Meter Low-Loss cable)
- PAM-0118P (18 GHz Preamplifier 38dB gain)
- SAC-40G-0.5 (0.5 Meter Low-Loss cable)
- PAM-1840 (40 GHz Preamplifier 20dB gain)
- ATU-510 (Antenna Tripod Unit, Wood)

A.H Systems is "Making the case for more reliable EMI Testing."
We can create custom cases to fit all of your antenna needs.

Features
- Radiated and Immunity
- Individually Calibrated
- Emissions Testing
- Low-Loss, Low VSWR

Antenna Specifications
The SAS-571 Double Ridge Guide Horn Antenna Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>SAS-571</th>
<th>SAS-574</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>700 MHz - 18 GHz</td>
<td>18GHz - 40GHz</td>
</tr>
<tr>
<td>Antenna Factor</td>
<td>22 to 45 (dB/m)</td>
<td>40 to 41.5 (dB/m)</td>
</tr>
<tr>
<td>Gain</td>
<td>1 - 16 (dBi)</td>
<td>15 - 21 (dBi)</td>
</tr>
<tr>
<td>Maximum Continuous Power</td>
<td>300 Watts</td>
<td>10 Watts</td>
</tr>
<tr>
<td>Average VSWR</td>
<td>&lt; 1.6:1</td>
<td>&lt; 1.5:1</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ohms</td>
<td>50 ohms</td>
</tr>
<tr>
<td>Connector Type</td>
<td>N-type (female)</td>
<td>2.9mm (female)</td>
</tr>
<tr>
<td>Weight</td>
<td>3.5lbs / 1.6 kg</td>
<td>0.2lbs / 0.09kg</td>
</tr>
<tr>
<td>Size</td>
<td>11.0&quot; x 5.6&quot; x 9.5&quot; (28cm x 14cm x 24cm)</td>
<td>3.4&quot; x 1.2&quot; x 1.6&quot; (8.6cm x 3.0cm x 4.1cm)</td>
</tr>
</tbody>
</table>
Tuned Dipole Set
Provides reliable, repeatable measurements
Designed per the FCC specifications, this Tuned Dipole Set is ideal for site attenuation measurements.

20 MHz - 1000 MHz

Model TDS-535 Tuned Dipole Set provides an accurate standard for precise EMI and site attenuation measurements (per OET-55 and ANSI C63.5). Our half wave Dipole Set is manufactured per the FCC balun design and is individually calibrated per ANSI C63.5 at 3 and 10 Meters. Our half wave Dipole Set should be considered as a standard reference set for frequencies below 1000 MHz. All Sets come contained in a rugged, lightweight storage case. The set includes four Baluns, Element extension rods, telescoping Elements, 10 Meter Cable, Tape Measure and Clamp for tripod mounting. Two Dipole Sets in one case (TDS-535-2) is available as an option.

Case size 28" x 23" x 7" (71cm x 58cm x 18cm)
Kit weight 19 lbs. (8.6kg)
Two sets in one case: Kit weight 24 lbs. (10.8kg)

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range (MHz)</th>
<th>Typical Antenna Factor (dB/m)</th>
<th>Max. Cont. Pwr. in (Watts)</th>
<th>Ave. VSWR</th>
<th>Balun Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCC-1</td>
<td>25 - 70</td>
<td>-3 to 6</td>
<td>300</td>
<td>&lt; 1.6</td>
<td>23.7&quot; / 60.2cm</td>
<td>1.2lbs / 544g</td>
</tr>
<tr>
<td>FCC-2</td>
<td>65 - 180</td>
<td>5 to 14</td>
<td>200</td>
<td>&lt; 1.6</td>
<td>21.7&quot; / 55.1cm</td>
<td>0.7lbs / 318g</td>
</tr>
<tr>
<td>FCC-3</td>
<td>170 - 340</td>
<td>13 to 19</td>
<td>90</td>
<td>&lt; 1.6</td>
<td>12.5&quot; / 31.7cm</td>
<td>0.5lbs / 227g</td>
</tr>
<tr>
<td>FCC-4</td>
<td>325 - 1000</td>
<td>20 to 29</td>
<td>60</td>
<td>&lt; 1.6</td>
<td>9.0&quot; / 22.8cm</td>
<td>0.4lbs / 181g</td>
</tr>
</tbody>
</table>

Features
- Radiated and Immunity
- Individually Calibrated
- FCC or VDE Site Attenuation
- Low Loss, Low VSWR
- FCC Balun Design

Sleeve Dipole Antennas
Reference Antenna
These end-fed sleeve dipole antennas are truly omni-directional having excellent symmetry with low VSWR. These antennas are often used as a reference for antenna gain measurements and have a nominal 50 ohm input impedance that can handle 10 watts. The end-fed connection point allows better performance in symmetry, ideal for the requirement of a truly omni-directional antenna.

<table>
<thead>
<tr>
<th>Model</th>
<th>Center Frequency (MHz)</th>
<th>VSWR</th>
<th>Frequency Range @&lt; 1.5:1 VSWR</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDA-915</td>
<td>915 MHz</td>
<td>1.08:1</td>
<td>890 - 940 MHz</td>
</tr>
<tr>
<td>SDA-1270</td>
<td>1270 MHz</td>
<td>1.10:1</td>
<td>1230 - 1320 MHz</td>
</tr>
<tr>
<td>SDA-1440</td>
<td>1440 MHz</td>
<td>1.15:1</td>
<td>1390 - 1500 MHz</td>
</tr>
<tr>
<td>SDA-1750</td>
<td>1750 MHz</td>
<td>1.05:1</td>
<td>1700 - 1800 MHz</td>
</tr>
<tr>
<td>SDA-1950</td>
<td>1950 MHz</td>
<td>1.12:1</td>
<td>1880 - 2010 MHz</td>
</tr>
<tr>
<td>SDA-2450</td>
<td>2450 MHz</td>
<td>1.16:1</td>
<td>2325 - 2575 MHz</td>
</tr>
</tbody>
</table>

other frequencies available
VHF, UHF and FM Tuned Dipole Set

Efficient performance covering the common broadcasting frequencies.

50 MHz - 220 MHz & 325 MHz - 1000 MHz

The TDS-536 Kit provides an accurate assessment of surrounding signals in VHF, UHF and FM bands. Designed to withstand all weather environments, this kit is an ideal solution for Radio/Television Broadcast and Land Mobile Radio engineers. The TDS-536 Kit comes complete with two Baluns, Cable, Tape Measure, Balun Clamp and Transit Storage Case.

Case size
21 1/2” x 17” x 6”
(54cm x 43cm x 15cm)

Kit weight
10 lbs. (4.5 kg)

Features
- VHF, UHF and FM Frequency Ranges
- Individually Calibrated
- Willmar Roberts FCC Balun Design
- Low Loss, Low VSWR
- 50 Ω or 75 Ω Input Impedance

Antenna Specifications

The TV-1 Dipole Antenna Specifications

Frequency Range..............50 MHz - 220 MHz
Maximum Continuous Power.............60 Watts
Antenna Factor ..................4 to 16 (dB/m)
Gain ........................................2 (dBi)
Average VSWR..........................< 2:1
Impedance..............................50 ohms
Connector Type ..................N-type (female)
Weight.................................0.7lbs (317g)
Balun Length.......................17.7” (45cm)

The TV-2 Dipole Antenna Specifications

Frequency Range..............325 MHz - 1000 MHz
Maximum Continuous Power.............60 Watts
Antenna Factor ..................20 to 24 (dB/m)
Gain ........................................2 (dBi)
Average VSWR..........................< 2:1
Impedance..............................50 ohms
Connector Type ..................N-type (female)
Weight.................................0.4lbs (181g)
Balun Length.......................9” (22.8cm)

A Sleeve Dipole Kit is available. The case size is 21 1/2” x 17” x 6”. The kit can contain an FCC-4, Tape Measure, Dipole Clamp, Cable and up to 5 Sleeve Dipole Antennas at your custom frequency requirements.

A.H Systems is "Making the case for more reliable EMI Testing." We can create custom cases to fit all of your antenna needs.
Broadband Current Probes
The split type clamp-on design
Small and lightweight, each Current Probe is manufactured to exacting standards, thus insuring repeatable performance.

20 Hz - 500 MHz

Features
- Aperture Diameters Range from 1.2 to 2.7 inches
- Individually Calibrated
- High Current Capability
- Split Type Clamp-on Design

These Current Probes offer a wide operating frequency range of 20 Hz to 500 MHz. For ease and convenience of performing conducted measurements, all Current Probes utilize the split type clamp-on design. Small and lightweight, each Current Probe is manufactured to exacting standards, thus insuring consistent performance.

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range</th>
<th>Typical Transfer Impedance (dB)</th>
<th>Max Cont. Line Current (Amps)</th>
<th>Aperture</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCP-610</td>
<td>20 Hz-20 MHz</td>
<td>-60 to -10</td>
<td>300</td>
<td>1.25&quot; / 32mm</td>
<td>1.4lbs. / 0.65kg</td>
</tr>
<tr>
<td>BCP-611</td>
<td>10 KHz-150 MHz</td>
<td>-25 to 2</td>
<td>450</td>
<td>1.25&quot; / 32mm</td>
<td>1.4lbs. / 0.65kg</td>
</tr>
<tr>
<td>BCP-614</td>
<td>10 KHz-300 MHz</td>
<td>-25 to 4</td>
<td>350</td>
<td>2.62&quot; / 67mm</td>
<td>5.5lbs. / 2.5kg</td>
</tr>
<tr>
<td>BCP-615</td>
<td>10 KHz-500 MHz</td>
<td>-35 to 17</td>
<td>350</td>
<td>1.25&quot; / 32mm</td>
<td>1.2lbs. / 0.55kg</td>
</tr>
<tr>
<td>BCP-616</td>
<td>10 KHz-150 MHz</td>
<td>-25 to 15</td>
<td>600</td>
<td>1.25&quot; / 32mm</td>
<td>1.4lbs. / 0.65kg</td>
</tr>
<tr>
<td>BCP-618</td>
<td>100 KHz-600 MHz</td>
<td>-18 to 20</td>
<td>360</td>
<td>2.62&quot; / 67mm</td>
<td>6.6lbs. / 2.9kg</td>
</tr>
<tr>
<td>BCP-619</td>
<td>1 KHz-100 MHz</td>
<td>-60 to -75</td>
<td>70</td>
<td>2.62&quot; / 67mm</td>
<td>5.4lbs. / 1.43kg</td>
</tr>
<tr>
<td>BCP-620</td>
<td>10 KHz-500 MHz</td>
<td>-29 to 17</td>
<td>200</td>
<td>1.25&quot; / 33mm</td>
<td>1.2lbs. / 0.55kg</td>
</tr>
</tbody>
</table>

Additional Probes Available

Current Probe Fixtures
Features
- Wide Operating Frequency
- Rugged Design

Current probe fixtures are a part of the test equipment required by most of the Current Injection Test Procedures. We offer several Current probe calibration fixtures allowing the user to quickly and easily calibrate the current probe prior to performing the compliance testing.
Injection Current Probes

You asked for convenience...
Inductively couple large RF currents into conductors passing through their aperture.
For conducted susceptibility.

10 KHz - 500 MHz

A.H. Systems series of Injection Current Probes offer a wide operating frequency range of 10 KHz - 500 MHz. The geometry of our probes optimize coupling to the circuit under test. Each probe comes with an N-type connector.

Features
- Frequency Range of 10 KHz - 1000 MHz
- High Power Capability
- Rugged Design
- Low Insertion Loss

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range</th>
<th>Typical Insertion Loss (dB)</th>
<th>Max Cont. Per. In (Watts)</th>
<th>Aperture</th>
<th>Outer Diameter</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICP-621</td>
<td>10 KHz - 100 MHz</td>
<td>33 to 8</td>
<td>100</td>
<td>1.5&quot; / 3.8cm</td>
<td>4.25&quot; / 10.8cm</td>
<td>4.24ps / 1.9kg</td>
</tr>
<tr>
<td>ICP-622</td>
<td>1 MHz - 500 MHz</td>
<td>23 to 4</td>
<td>200</td>
<td>1.5&quot; / 3.8cm</td>
<td>4.25&quot; / 10.8cm</td>
<td>4.24ps / 1.9kg</td>
</tr>
</tbody>
</table>

Additional Injection Probes Available

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Range</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPF-630</td>
<td>20 Hz-500 MHz</td>
<td>10&quot; / 25cm</td>
<td>7&quot; / 18cm</td>
<td>6&quot; / 15cm</td>
<td>9.2lbs / 4.2kg</td>
</tr>
<tr>
<td>CPF-631</td>
<td>400 MHz-1500 MHz</td>
<td>10&quot; / 25cm</td>
<td>7&quot; / 18cm</td>
<td>7&quot; / 18cm</td>
<td>9.4lbs / 4.3kg</td>
</tr>
</tbody>
</table>

Other current probe fixtures available upon request
Broadband Preamplifiers

Reliable, repeatable performance.
An excellent choice with a rugged design. No hassles with soldering your own power leads and they improve overall system sensitivity 20 to 40dB

20 MHz - 40 GHz

Features
- Broad Frequency Range
- Optional Battery Powered Control
- High Gain, Flat Response
- Low Noise Figure

These Preamplifiers are designed to improve overall system sensitivity. The Preamplifiers are matched to the frequency bandwidths of the antennas. A regulated power supply is provided with each Preamplifier.

Low-Loss Cables

Features
- High-Frequency
- Impedance (50 Ω)
- Individually Calibrated
- Custom cable lengths and connector types to Suit Your Specifications

Our Low-Loss High-Frequency flexible cables are the preferred choice over standard cable types. With improved power handling, low VSWR and high frequency capabilities, the Low-Loss cables can be made to your specified length and delivered in two days.

A.H Systems is "Making the case for more reliable EMI Testing."
We can create custom cases to fit all of your antenna needs.
Tripods and Accessories
Not just antennas, but accessories too.
Here you will find a listing of general accessories, including cables, tripods, adapters, carrying cases and more.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Material</th>
<th>Closed Height</th>
<th>Extended Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATU-510</td>
<td>Wooden Tripod</td>
<td>WOOD</td>
<td>40&quot; / 101cm</td>
<td>64&quot; / 133cm</td>
<td>11.3lbs / 5.1kg</td>
</tr>
<tr>
<td>ATU-514</td>
<td>Plastic Tripod</td>
<td>Plastics</td>
<td>33&quot; / 84cm</td>
<td>79&quot; / 200cm</td>
<td>6.2lbs / 2.8kg</td>
</tr>
<tr>
<td>WEL-510</td>
<td>Tripod Extension Legs</td>
<td>WOOD</td>
<td>28&quot; / 71cm</td>
<td>51&quot; / 130cm</td>
<td>7.0lbs / 3.2kg</td>
</tr>
<tr>
<td>AEH-510</td>
<td>Azimuth/Elevation Head</td>
<td>NYLON</td>
<td></td>
<td></td>
<td>0.7lbs / 0.32kg</td>
</tr>
<tr>
<td>AEH-511</td>
<td>Azimuth/Elevation Head</td>
<td>METAL</td>
<td></td>
<td></td>
<td>2.7lbs / 1.2kg</td>
</tr>
<tr>
<td>TCC-510</td>
<td>Tripod Carrying Case</td>
<td>FIBERBOARD</td>
<td></td>
<td></td>
<td>6.6lbs / 3.0kg</td>
</tr>
<tr>
<td>ABC-B</td>
<td>Diconical Balun Clamp</td>
<td>DELRIN</td>
<td></td>
<td></td>
<td>0.6lbs / 0.27kg</td>
</tr>
<tr>
<td>ABC-TD</td>
<td>Tuned Dipole Balun Clamp</td>
<td>DELRIN</td>
<td></td>
<td></td>
<td>0.6lbs / 0.27kg</td>
</tr>
<tr>
<td>LPM-510</td>
<td>Log Periodic Tripod Mount</td>
<td>DELRIN</td>
<td></td>
<td></td>
<td>0.7lbs / 0.32kg</td>
</tr>
<tr>
<td>BTE-510</td>
<td>Bilingual Tripod Extension</td>
<td>FIBERGLASS</td>
<td></td>
<td></td>
<td>1.1lbs / 0.49kg</td>
</tr>
</tbody>
</table>

Custom antenna cases available

Features
- Wood or Nylon Models
- Rugged Construction
- Tripod Mount is Standard 1/4-20
- Compact and Lightweight
- Reversible legs: Rubber Feet for Indoor Use, Spike Tips for Outdoor Testing

Standard Cables
Features
- Frequency Range from DC - 10 GHz
- RG-58, RG-142, RG-214, RG-223 Cables
- Customized Cables to Suit Your Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency Max</th>
<th>Connectors</th>
<th>Cable type</th>
<th>Attenuation @ 1 GHz (dB)</th>
<th>Weight / 3 M</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAC-210</td>
<td>5 GHz</td>
<td>BNC to BNC</td>
<td>RG-58</td>
<td>1.9</td>
<td>0.3lbs / 136g</td>
</tr>
<tr>
<td>SAC-211</td>
<td>10 GHz</td>
<td>N to N</td>
<td>RG-214</td>
<td>0.9</td>
<td>1.5lbs / 680g</td>
</tr>
<tr>
<td>SAC-212</td>
<td>5 GHz</td>
<td>BNC to BNC</td>
<td>RG-58</td>
<td>1.9</td>
<td>0.3lbs / 136g</td>
</tr>
<tr>
<td>SAC-213</td>
<td>5 GHz</td>
<td>N to N</td>
<td>RG-58</td>
<td>1.9</td>
<td>0.3lbs / 136g</td>
</tr>
</tbody>
</table>

Standard length for all cables is 3 meters, custom cables can be ordered (specify "x" the length in meters after the model number)

Adapters

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADP-201</td>
<td>BNC (f) to N (m)</td>
<td>up to 7 GHz</td>
</tr>
<tr>
<td>ADP-202</td>
<td>BNC (m) to N (f)</td>
<td>up to 7 GHz</td>
</tr>
<tr>
<td>ADP-203</td>
<td>N (f) to SMA (m)</td>
<td>up to 18 GHz</td>
</tr>
<tr>
<td>ADP-204</td>
<td>N (m) to N (m)</td>
<td>up to 10 GHz</td>
</tr>
<tr>
<td>ADP-205</td>
<td>N (m) to N (m)</td>
<td>up to 18 GHz</td>
</tr>
<tr>
<td>ADP-206</td>
<td>N (m) to SMA (f)</td>
<td>up to 18 GHz</td>
</tr>
<tr>
<td>ADP-207</td>
<td>N (f) to SMA (f)</td>
<td>up to 18 GHz</td>
</tr>
<tr>
<td>ADP-208</td>
<td>N (m) to N (f) 90 Deg</td>
<td>up to 10 GHz</td>
</tr>
<tr>
<td>ADP-209</td>
<td>3.5mm (f) to 3.5mm (m)</td>
<td>up to 26 GHz</td>
</tr>
<tr>
<td>ADP-210</td>
<td>3.5mm (m) to 3.5mm (m)</td>
<td>up to 26 GHz</td>
</tr>
<tr>
<td>ADP-211</td>
<td>2.9mm (m) to 2.9mm (m)</td>
<td>up to 40 GHz</td>
</tr>
<tr>
<td>ADP-212</td>
<td>N(m) to SMA(m)</td>
<td>up to 18 GHz</td>
</tr>
<tr>
<td>ADP-213</td>
<td>2.9mm (f) to 2.9mm (f)</td>
<td>up to 40 GHz</td>
</tr>
<tr>
<td>ADP-214</td>
<td>BNC(f) to BNC(f)</td>
<td>up to 7 GHz</td>
</tr>
<tr>
<td>ADP-215</td>
<td>N(f) to N(f)</td>
<td>up to 18 GHz</td>
</tr>
</tbody>
</table>

Additional adapters available to suit all your needs.
A.H. Systems, Inc. Worldwide Sales Representatives

AUSTRALIA
Test & Measurement
Australia PTY Limited
Blaxland, NSW
TEL: +61 (0) 2 4739-9523
FAX: +61 (0) 2 4739-9524
info@tandm.com.au

CHINA
Beijing Amuke Technology Inc.
Beijing
TEL: 86-10-82675757
FAX: 86-10-62616800
help@emct.com.cn

COLOMBIA
Rentametric Int’l
Miami, FL
TEL: 1 (305) 767-4000
postmaster@entametric.com

INDIA
Technocomm Instruments
Private Ltd.
Bangalore, India
TEL: 91 80 25731009
FAX: 91 80 25731028
sales@technocommgroup.com

MALAYSIA
ST Electronics LTD
Singapore
TEL: 65-64131786
FAX: 65 64845357
ngchi@stee.stengg.com

BELGIUM
EEMCCOIMEX
Lelystad (NL)
TEL: +31 (0) 320 295 395
info@eemc.nl

CZECH REPUBLIC
IVService, s.r.o.
Prague
TEL: +420 251 556 692
sales@ivservice.cz

ISRAEL
Wave Components Ltd.
Kfar-Saba
TEL: +972 (0)9-9961205
FAX: +972 (0)9-7670641
arie@wavetech.co.il

NETHERLANDS
EEMCCOIMEX
Lelystad, (NL)
TEL: +31 (0) 320 295 395
info@eemc.nl

BULGARIA
Test Solutions
Sofia
TEL: 359 2 970 1990
FAX: 359 2 970 1999
sales@testsolutions.bg

ECUADOR
Rentametric Int’l
Miami, FL
TEL: 1 (305) 767-4000
postmaster@entametric.com

ITALY
Narda Safety Test Solutions Srl
Segrate (MI)
TEL: 39 02 2699871
FAX: 39 02 26998700
nardait.support@l3t.com

NEW ZEALAND
Test & Measurement
Australia PTY Limited
Blaxland, NSW
TEL: +61 (0) 2 4739-9523
FAX: +61 (0) 2 4739-9524
info@tandm.com.au

CANADA
Telepro inc.
Montreal (head office)
TEL: 514-667-7061
FAX: 514-448-1845
information@telepro-inc.com

FRANCE
AR France
Gennesvilliers
TEL: 33 01 47 91 75 30
FAX: 33 01 47 91 75 35
artcontact@anworld.us

POLAND
AM Technologies
Sp. z o.o. Sp. k.
Warszawa
TEL: 48 22 53 22 800
FAX: 48 22 53 22 828
info@amt.pl

CHINA
Beijing 21 Century Science and Technology Development Co. Ltd.
Beijing
TEL: +86-10-82925966, x2023
FAX: +86-10-82951043
luoyan@21stc.com.cn

GERMANY
Pro Nova Elektronik GmbH
Ludwigsburg
TEL: 49 7141-2858-0
FAX: 49 7141-2858-29
info@pn-com.de

ROMANIA
Celesta Comexim
Bucharest
TEL: +40 21 4103064
FAX: +40 21 4103117
celests@celesra.ro

CHINA
Compliance Direction Systems Inc.
Beijing
TEL: +86(10)6846-9592
FAX: +86(10)6845-1564
bin@emcdir.com

GREECE
Vector Technologies Ltd.
Athens
TEL: 30 210 68 58008
FAX: 30 210 68 58118
gkoukas@vectertechnologies.gr

RUSSIAN FEDERATION
LLC Sernia Engineering
Moscow
TEL: 7 495 932 92 42
FAX: 7 495 932 92 44
info@sernia.ru

GERMANY
Techno Science Japan Co., Ltd.
Tokyo
TEL: 81-3-5717-6130
FAX: 81-3-5717-6131
sales@tsjcorp.co.jp

SINGAPORE
ST Electronics LTD
Singapore
TEL: 65-64131786
FAX: 65 64845357
ngchi@stee.stengg.com
"With A.H. Systems’ assistance and parts, we’ve been able to establish a useful, repeatable measurement setup"

- Jeff, Naval Sea Warfare

"Your products and support are tough to beat!"

- John, Delphi

"Packaging is excellent, easy to return/repack as well. Had good customer support post-purchase with our last set, which is getting appreciated."

- Nikki, F.C.C.

"Seamless and Flawless transaction, Thanks!"

- Dave, Dept. of Defense

"I am new to this business, but have thought prices might be on the high-side. However, I get what I want, when I want it, from A.H. Systems"

- Jon, Guidant Corporation

"Delivery time was excellent!"

- Fernando, USC

"Thanks for everything, Great Job!"

- Jeff, Bell South

"I am a very pleased customer. Your customer service practices are excellent."

- Lance, Plexeon Logistics
The choice of today’s engineers.

All-Purpose Antenna Kits
20 Hz - 40 GHz Range
FCC, MIL-STD, IEC, CISPR Compliant
Case: 28 x 23 x 10 in. 37 Lbs.

Bilogical Antenna Kits
25 MHz - 7 GHz Range
Maximum Gain, Low VSWR
High Power Capabilities
Eliminates Antenna Switching
Case: 28 x 23 x 10 in. 26 Lbs.

Horn Antenna Kit
700 MHz - 40 GHz Range
Double Ridge Guide Horns
Radiated & Immunity Testing
Case: 21 1/2" x 17" x 9" 12 Lbs.

Shielding Effectiveness Kits
1 KHz - 18 GHz
Low Loss, Low VSWR
Transmit and Receive
Case: 28 x 23 x 10 in.
Weight: 35 Lbs. each

A.H. Systems' NEW Family of Antenna Kits uniquely pack a lot of quality and expertise into a rugged, compact carrying cases.

All Antennas are individually calibrated.

Lightweight Antennas with Improved Performance and Quality make all your EMI / EMC testing much more simple and accurate.

A.H. Systems, Inc.
9710 Cozycoft Ave.
Chatsworth, CA. 91311
Phone (818) 998-0223 Fax (818) 998-6892 sales@AHSsystems.com

Antennas... and Kits too...