

# A.H. SYSTEMS

EMC Test Antennas Since 1974



**Next-Day  
On-Time Delivery**  
with over 95% of our  
products in stock



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



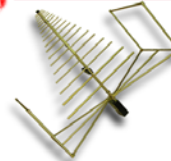
## Antenna Kits

20 Hz - 40 GHz  
18 Standard Models



## Log Periodics

80 MHz - 7 GHz  
13 Models



## Biologicals

25 MHz - 7 MHz  
8 Models



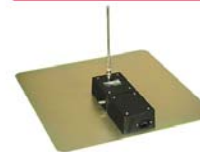
## Biconicals

20 MHz - 18 GHz  
7 Models



## Dipoles

20 MHz - 1 GHz  
14 Models



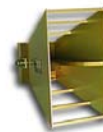
## Monopoles

100 Hz - 60 MHz  
4 Models



## Loops

20 Hz - 30 MHz  
6 Models



## Broadband Horns

170 MHz - 40 GHz  
4 Models



## Standard Gain Horns

1 GHz - 40 GHz  
11 Models



## Current Probes

20 Hz - 1 GHz  
14 Models



## Preamplifiers

20 MHz - 40 GHz  
11 Models

Antennas...

and Kits too...



Innovation

Quality

Performance

Phone: (818)998-0223 ♦ Fax (818)998-6892  
<http://www.AHSystems.com>

**A.H. Systems**





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**1 - 18 GHz  
omni-directional**

**ALL NEW!**

## High Frequency Biconical Antennas

Yes, we've added to our all ready successful line of biconical antennas, a couple of new broadband omnidirectional biconical antennas. Ideal for wireless testing and broadband surveillance monitoring, these antennas are built to satisfy a variety of testing requirements. . . *See page 7*



## Horn Antenna Kit

As specifications include higher test frequency requirements so does the need for an accurate antenna solution. The AK-571-4 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. . *See page 15*



**As Requested**

## Low-Loss Cables

A.H. Systems Low-Loss High-Frequency flexible cables are the preferred choice over standard cable types. With improved power handling, low VSWR and high frequency capabilities, our Low-Loss cables can be made to your specified length. Our cables are assembled, tested, calibrated and can be delivered in two days. Standard cable lengths are stocked with frequency operation from DC up to 18 GHz, 26 GHz and 40 GHz. . . . . *See page 20*



**Innovation,  
Quality  
and Performance**



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 to any destination are sent directly from our facility and are made F.O.B. factory (Chatsworth, CA USA). 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.

## 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 preamplifier'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 it's 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.



**we accept**





## Log Periodic Antennas

**Maximum Gain, Low VSWR & High Power**

These antennas display efficient performance throughout their broad frequency range.

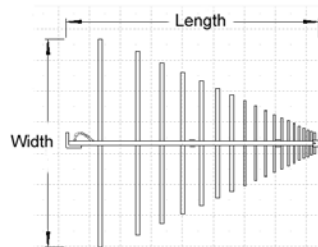
**80 MHz - 7 GHz**



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.

## Features

- **50  $\Omega$  Impedance**
- **Receive and Transmit**
- **Individually Calibrated**
- **Rugged Construction**
- **Custom Cases Available**



Model	Frequency Range (MHz)	Typical Antenna Factor (dB/m)	Max Cont. Pwr. in (Watts)	Max Radiated Field (V/M)	Ave. VSWR	Length	Width	Weight
SAS-510-2	290-2000	14-32	1000	200	1.45	22.6" / 57.5cm	20.1" / 51.1cm	1.4lbs. / 0.64kg
SAS-510-4	290-4000	15-37	1000	200	1.66	23.8" / 60.4cm	20.1" / 51.1cm	1.5lbs. / 0.68kg
SAS-510-7	290-7000	15-47	1000	200	1.70	24.0" / 61.2cm	20.1" / 51.1cm	1.5lbs. / 0.68kg
SAS-512-2	190-2000	11-30	1000	200	1.62	33.2" / 84.4cm	29.5" / 74.9cm	2.2lbs. / 1.0kg
SAS-512-4	190-4000	11-37	1000	200	1.61	34.3" / 87.1cm	29.5" / 74.9cm	2.3lbs. / 1.04kg
SAS-512-7	190-7000	11-43	1000	200	1.58	34.6" / 88.0cm	29.5" / 74.9cm	2.3lbs. / 1.04kg
SAS-512F-2*	190-2000	11-30	325	100	1.64	33.2" / 84.4cm	29.5" / 74.9cm	2.2lbs. / 1.0kg
SAS-512F-4*	190-4000	11-38	325	100	1.62	34.3" / 87.1cm	29.5" / 74.9cm	2.3lbs. / 1.04kg
SAS-512F-7*	190-7000	11-46	325	100	1.64	34.6" / 88.0cm	29.5" / 74.9cm	2.3lbs. / 1.04kg
SAS-515	120-4000	10-39	1000	200	1.60	44.3" / 112.5cm	55.9" / 142cm	3.9lbs. / 1.27kg
SAS-517	80-4000	5-36	1000	200	1.65	56.3" / 143cm	72.3" / 183cm	4.6lbs. / 2.09kg
SAS-519-4	650-4000	21-39	700	200	1.72	11.0" / 28.1cm	8.2" / 20.8cm	0.7lbs. / 0.32kg
SAS-519-7	650-7000	21-45	700	200	1.63	11.6" / 29.4cm	8.2" / 20.8cm	0.7lbs. / 0.32kg

\* 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 - 500 MHz. 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



Model	Frequency Range (MHz)	Typical Antenna Factor (dB/m)	Max Cont. Pwr. in (Watts)	Max Radiated Field (V/M)	Width	Height	Weight
SAS-530*	160-500	17-26	1	5	24" / 61cm	21" / 53cm	2.5lbs / 1.1kg
SAS-530H*	160-500	15-25	300	50	24" / 54cm	21" / 53cm	2.5lbs / 1.1kg
SAS-540	20-330	8-27	1	2	52.8" / 134cm	29" / 74cm	4.3lbs / 1.9kg
SAS-542**	20-330	8-27	1	2	52.8" / 134cm	29" / 74cm	4.3lbs / 1.9kg
SAS-543	20-300	8-23	1000	100	52.6" / 133cm	17" / 43cm	6.0lbs / 2.7kg
SAS-544	20-300	5-29	300	20	52.8" / 134cm	29" / 74cm	4.3lbs / 1.9kg
SAS-544F**	20-300	5-29	300	20	52.8" / 134cm	29" / 74cm	4.3lbs / 1.9kg
SAS-545	20-1000	18-42	200	1	14.3" / 36.3cm	19.8" / 51cm	1.6lbs / 725g
SAS-547	1-18 GHz	32-59	50	10	2.3" / 5.7cm	14.3" / 36cm	1.0lbs / 454g

\* 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.

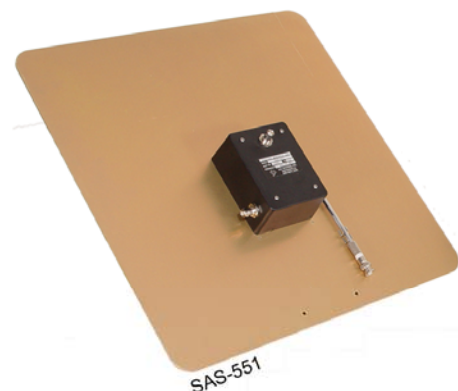
100 Hz - 60 MHz

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.



Model	Frequency Range	Typical A/F (dB/m)	Max Cont. Power (Watts)	Weight
SAS-550-1B	9 KHz - 60 MHz	2 to 0	N/A	4.7lbs / 2.1kg
SAS-550-2B	100 Hz - 60 MHz	27 to 0	N/A	4.7lbs / 2.1kg
SAS-551	9 KHz - 40 MHz	88 to 14	1000	3.5lbs / 1.6kg
EHA-51B *	1 KHz - 60 MHz			5.7lbs / 2.6kg
ECF-10	100 Hz - 60 MHz			0.1lbs / 0.05kg

\* Dual Rod / Loop preamplifier



## 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.

Model	Frequency Range	Magnetic A/F (dB/m)
HFR-1	100 Hz-100 KHz	27 to -40
HFR-2	20 KHz-2 MHz	-8 to -48
HFR-3	1 MHz-10 MHz	-20 to -48
HFR-4	5 MHz-30 MHz	-20 to -43
EHA-50B *	100 Hz-30 MHz	

\* 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

### Features

- Wide Operating Frequency 100 Hz - 30 MHz
- High Sensitivity
- Individually Calibrated
- MIL-STD, VDE and TEMPEST Testing



AK-HFR

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)

Model	Frequency Range	Magnetic Correction Factor	Max Continuous Input	Loop Diameter
SAS-560	20 Hz - 2 MHz	86 to 21	N/A	5.25" / 13.3cm
SAS-561	20 Hz - 50 KHz	N/A	10 Amps	4.72" / 12cm
SAS-562B	10 KHz - 30 MHz	28 to -60	N/A	18" / 46cm
SAS-563B	1 KHz - 30 MHz	48 to -56	N/A	12" / 30.5cm
SAS-564*	1 KHz - 30 MHz	62 to -22	500 WATTS	12" / 30.5cm
EHA-51B	1 KHz - 60 MHz	Dual Rod / Loop preamplifier		

\*N Connector, All others BNC



SAS-562

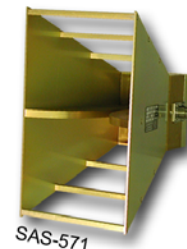




# Double Ridge Guide Horn Antennas

## 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.



SAS-571



SAS-574

### 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.

## Features

- Wide Operating Frequency 170 MHz - 40 GHz
- Radiated and Immunity
- Individually Calibrated
- Linearly Polarized
- High Power Input Capability

Model	Frequency Range (GHz)	Antenna Factor (dB/m)	Max Cont. Pwr. in (Watts)	Max Radiated Field (V/M)	Connector Type	Ave. VSWR	Length	Width	Height	Weight
SAS-570	0.17 - 3	11-33	800	200	N	1.5	36.7" / 93cm	28.7" / 73cm	38.5" / 98cm	22.5lbs / 10.2kg
SAS-571	0.7 - 18	22-45	300	200	N	1.6	11.0" / 28cm	5.6" / 14cm	9.5" / 24cm	3.5lbs / 1.6kg
SAS-574	18 - 40	40-41.5	10	150	2.9mm	1.5	3.4" / 8.6cm	1.2" / 3.0cm	1.6" / 4.1cm	0.2lbs / 0.09kg
SAS-575	1 - 4	20-29	250	200	N	1.5	17" / 43cm	13.3" / 34cm	15.5" / 40cm	15lbs / 6.8kg

Other Models available upon request.

Low-Loss High-Frequency cables required above 10 GHz ...see page 20

Optional Preamplifiers available ...see page 20



AK-571-4 (Horn Antenna Kit)

See page 15 for our  
new Horn Antenna Kit



SAS-570





## Standard Gain Horn Antennas

The industry reference

Manufactured with precision, these horn antennas are an ideal solution for gain measurements.

1.1 GHz - 40 GHz

The Standard Gain Horn Antennas are designed specifically for Emissions and Immunity testing over the frequency range of 1 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 that adapts to any tripod with 1/4-20 male threads.

### Features

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

Model	Frequency Range (GHz)	Typical Antenna Factor (dB/m)	Gain (dBi)	Max Cont. Pwr. in (Watts)	Max Radiated Field (V/M)	Connector Type	Length	Width	Height	Weight
SAS-580	1.12 - 1.70	18.2	14.7	550	700	N	34.4" / 77cm	14.2" / 30cm	20.0" / 44cm	28lbs / 10kg
SAS-581	1.70 - 2.60	22.1	14.6	500	650	N	27.0" / 69cm	8.5" / 22cm	11.8" / 30cm	8.2lbs / 3.7kg
SAS-582	2.60 - 3.95	25.3	15.0	250	500	N	17.9" / 46cm	6.0" / 15cm	8.1" / 21cm	3.7lbs / 1.7kg
SAS-583	3.95 - 5.85	29.5	14.4	250	500	N	12.0" / 31cm	3.7" / 9.4cm	5.1" / 13cm	1.3lbs / 0.6kg
SAS-584	5.85 - 8.20	32.2	14.8	250	500	N	8.6" / 22cm	2.6" / 6.6cm	3.5" / 8.9cm	1.1lbs / 0.5kg
SAS-585	8.20 - 12.4	34.7	15.5	250	500	N	7.2" / 18cm	2.1" / 5.3cm	2.8" / 7.1cm	0.6lbs / 0.27kg
SAS-586	12.4 - 18.0	38.9	14.9	200	450	N	4.0" / 10cm	1.5" / 3.8cm	1.9" / 4.8cm	0.2lbs / 0.09kg
SAS-587	18.0 - 26.5	42.2	14.8	50	225	SMA	3.4" / 8.6cm	0.9" / 2.3cm	1.2" / 3.1cm	0.2lbs / 0.09kg
SAS-588	26.5 - 40.0	45.9	14.6	10	100	2.9mm	2.9" / 7.4cm	0.6" / 1.5cm	0.9" / 2.3cm	0.1lbs / 0.05kg
SAS-572	18 - 26.5	37	20.1	50	300	SMA	5.1" / 13cm	1.7" / 4.3cm	2.2" / 5.6cm	0.2lbs / 0.09kg
SAS-573	26.5 - 40	40	20.2	10	150	2.9mm	4.1" / 10cm	1.1" / 2.8cm	1.4" / 3.6cm	0.1lbs / 0.05kg

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 ...see page 20

Optional Preamplifiers available ...see page 20



## 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

AK-40G shown  
with 3 optional  
Preamplifiers



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

## The Industry Standard 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

		AK-2G 20Hz - 2GHz	AK-4G 20Hz - 4GHz	AK-7G 20Hz - 7GHz	AK-18G 20Hz - 18GHz	AK-26G 20Hz - 26GHz	AK-40G 20Hz - 40GHz
SAS-510-2	290 MHz - 2000 MHz	X			X	X	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	X
SAS-572	18 GHz - 26.5 GHz					X	
SAS-574	18 GHz - 40 GHz						X
BCP-510	20 Hz - 1 MHz	X	X	X	X	X	X
BCP-511	20 KHz - 100 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	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





AK-285R

AK-285T

Shown with optional Preamplifiers

## Shielding Effectiveness Antenna Kits

A must for room verification

These Antenna Kits were designed for shielding effectiveness testing.

1 KHz - 18 GHz

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.

### Features

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

Antenna Case size:

28" x 23" x 10" (71cm x 59cm 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

Model	Frequency Range	AK-285R 1 KHz - 18 GHz	AK-285T 1 KHz - 18 GHz
SAS-510-2	290 MHz - 2000 MHz	X	X
SAS-544F	20 MHz - 300 MHz	X	X
SAS-551	9 KHz - 40 MHz		X
SAS-564	1 KHz - 30 MHz		X
EHA-51B	1 KHz - 60 MHz	X	
SAS-571	700 MHz - 18 GHz	X	X
SAC-18G-3	up to 18 GHz	X	X
ADP-201		X	
ADP-202		X	X
TSC-285R		X	
TSC-285T			X
TCC-510		X	X
ATU-510		X	X
AEH-510		X	X

Optional Preamplifiers available ...see page 20

**All New!**







## Biological Antenna Kits

### Portable Broadband solution

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



AK-521F-7

25 MHz - 7 GHz

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

### Features

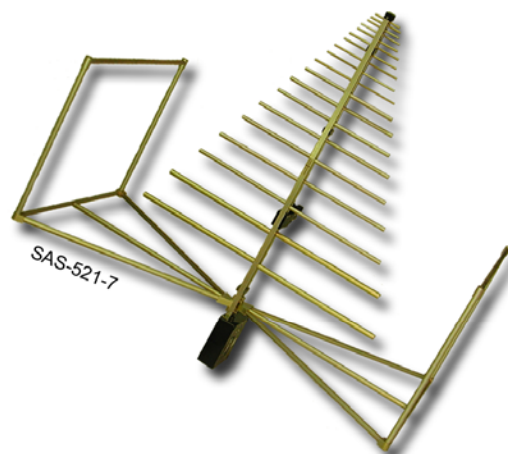
- Wide Operating Frequency 25 MHz - 7 GHz
- Radiated and Immunity
- Individually Calibrated
- FCC, MIL-STD, VDE and TEMPEST Testing
- High Power Input Capability

## Biological Antennas

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



SAS-521-7

Model	Frequency Range (MHz)	Antenna Factor (dB/m)	Max Cont. Pwr. in (Watts)	Max Radiated Field (V/m)	Ave. VSWR	Length	Width	Height	Weight
SAS-521-2	25-2000	7-30	1000	300	1.55	37.3" / 95cm	38.5" / 98cm	22.2" / 56cm	4.4lbs / 2.0kg
SAS-521-4	25-4000	7-37	1000	300	1.66	38.3" / 98cm	38.5" / 98cm	22.2" / 56cm	4.5lbs / 2.1kg
SAS-521-7	25-7000	7-47	1000	300	1.75	39.0" / 99cm	38.5" / 98cm	22.2" / 56cm	4.5lbs / 2.1kg
SAS-521F-2*	25-2000	7-31	400	100	1.65	37.3" / 95cm	38.5" / 98cm	22.2" / 56cm	4.4lbs / 2.0kg
SAS-521F-4*	25-4000	7-37	400	100	1.60	38.3" / 98cm	38.5" / 98cm	22.2" / 56cm	4.5lbs / 2.1kg
SAS-521F-7*	25-7000	7-47	400	100	1.62	39.0" / 99cm	38.5" / 98cm	22.2" / 56cm	4.5lbs / 2.1kg
SAS-522-2	25-2000	3-30	1000	300	1.85	57.0" / 145cm	59.7" / 152cm	35.1" / 89cm	7.6lbs / 3.45kg
SAS-522-5	25-5000	3-41	1000	300	1.73	58.0" / 147cm	59.7" / 152cm	35.1" / 89cm	7.7lbs / 3.49kg

\* Folding Antenna

Optional Preamplifiers available ...see page 20



AK-571-4

*Shown with optional Preamplifiers and Low-Loss Cables***All New!**

## 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-0118 (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

Frequency Range.....	700 MHz - 18 GHz
Antenna Factor .....	22 to 45 (dB/m)
Gain .....	1 - 16 (dBi)
Maximum Continuous Power.....	300 Watts
Average VSWR.....	< 1.6:1
Impedance.....	50 ohms
Connector Type .....	N-type (female)
Weight.....	3.5lbs / 1.6 kg
Size.....	11.0" x 5.6" x 9.5" 28cm x 14cm x 24cm

The SAS-574 Double Ridge Guide Horn  
Antenna Specifications

Frequency Range.....	18GHz - 40GHz
Antenna Factor .....	40 to 41.5 (dB/m)
Gain .....	15 - 21 (dBi)
Maximum Continuous Power.....	10 Watts
Average VSWR.....	< 1.5:1
Impedance.....	50 ohms
Connector Type .....	2.9mm (female)
Weight.....	0.2lbs / 0.09kg
Size.....	3.4" x 1.2" x 1.6" 8.6cm x 3.0cm x 4.1cm





## 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**



TDS-535-2

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)

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

## 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.

Model	Center Frequency	VSWR	Frequency Range @ < 1.5:1 VSWR
SDA-915	915 MHz	1.08:1	890 - 940 MHz
SDA-1270	1270 MHz	1.10:1	1230 - 1320 MHz
SDA-1440	1440 MHz	1.15:1	1390 - 1500 MHz
SDA-1750	1750 MHz	1.05:1	1700 - 1800 MHz
SDA-1950	1950 MHz	1.12:1	1880 - 2010 MHz
SDA-2450	2450 MHz	1.16:1	2325 - 2575 MHz

other frequencies available





TDS-536

## VHF, UHF and FM Tuned Dipole Set

VHF, UHF, and FM testing

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

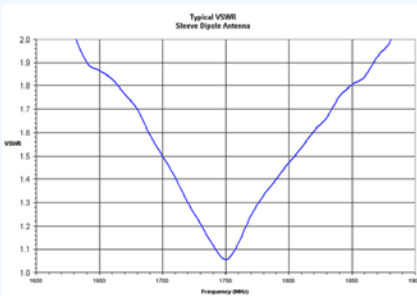
21 1/2" x 17" x 6"

(54cm x 43cm x 15cm)

Kit weight

10 lbs. (4.5 kg)

**All New!**



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.

## Features

- VHF, UHF and FM Frequency Ranges
- Individually Calibrated
- Willmar Roberts FCC Balun Design
- Low Loss, Low VSWR
- 50  $\Omega$  or 75  $\Omega$  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)

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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 - 1 GHz



### 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 1000 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.

Model	Frequency Range	Typical Transfer Impedance (dB)	Max Cont. Line Current (Amps)	Aperture	Outer Diameter	Weight
BCP-510	20 Hz-1 MHz	-56 to -30	100	1.2" / 3cm	3.9" / 9.9cm	1.7lbs. / 771g
BCP-511	20 KHz-100 MHz	-12 to 1	350	1.2" / 3cm	3.9" / 9.9cm	1.8lbs. / 816g
BCP-512	1 MHz-1000 MHz	0 to 24	200	1.2" / 3cm	2.8" / 7.1cm	0.5lbs. / 227g
BCP-514	10 KHz-100 MHz	-18 to 0	350	2.7" / 6.8cm	5.0" / 12.7cm	2.5lbs. / 1.13kg
BCP-515	1 MHz-400 MHz	-14 to 19	300	1.2" / 3cm	2.8" / 7.1cm	0.3lbs. / 136g
BCP-516	10 KHz-50 MHz	-7 to 12	800	1.2" / 3cm	3.7" / 9.4cm	2.5lbs. / 1.13kg
BCP-518	100 KHz-500 MHz	-10 to 15	200	2.7" / 6.8cm	5.0" / 12.7cm	2.5lbs. / 1.13kg
BCP-519	1 KHz-100 MHz	-40 to 17	200	2.6" / 6.6cm	5.5" / 13.9cm	6.0lbs. / 2.7kg
BCP-520	10 KHz-500 MHz	-19 to 20	350	1.2" / 3cm	3.9" / 9.9cm	1.8lbs. / 816g
BCP-522	1 KHz-200 MHz	-30 to 0	100	1.2" / 3cm	2.8" / 7.1cm	0.5lbs. / 227g
BCP-526	100 KHz-1 GHz	-38 to -15	200	1.2" / 3cm	2.8" / 7.1cm	0.5lbs. / 227g

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 three 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 - 1 GHz

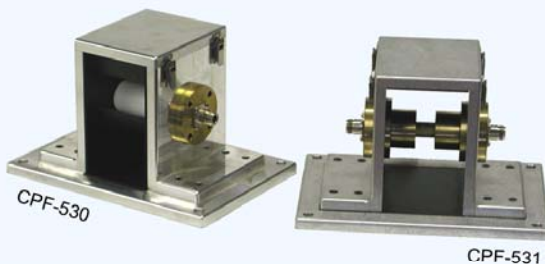
A.H. Systems series of Injection Current Probes offer a wide operating frequency range of 10 KHz - 1000 MHz. The geometry of our probes optimize coupling to the circuit under test. Each probe comes with an N-type connector.

### Features

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

Model	Frequency Range	Typical Insertion Loss (dB)	Max Cont. Pwr. in (Watts)	Aperture	Outer Diameter	Weight
ICP-521	10 KHz - 100 MHz	33 to 12	100	1.6" / 4cm	4.6" / 11.7cm	6.5lbs / 2.9kg
ICP-522	1 MHz - 400 MHz	22 to 4	200	1.6" / 4cm	3.7" / 9.4cm	4.0lbs / 1.8kg
ICP-523	300 KHz - 1000 MHz	16 to 4	100	1.6" / 4cm	5.0" / 12.7cm	5.5lbs / 2.5kg

Additional Injection Probes Available



Model	Frequency Range	Length	Width	Height	Weight
CPF-530	10 KHz-400 MHz	10" / 25cm	7" / 18cm	6" / 15cm	9.2lbs / 4.2kg
CPF-531	1 MHz-1000 MHz	10" / 25cm	7" / 18cm	7" / 18cm	9.4lbs / 4.3kg
CPF-532	10 KHz-400 MHz	12" / 30cm	7" / 18cm	8" / 20cm	13lbs / 5.9kg



## 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

**Improved**



### 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.

Model	Frequency Range	TYP Gain (dB)	Flatness (+/- dB)	Noise Figure (dB)	Connector Type	Input (Volts / ma DC)
PAM-0202	20-2000 MHz	31	0.5	4.0	N	12 / 140
PAM-0204	20-4000 MHz	24	2.0	4.5	N	12 / 170
PAM-0207	20-7000 MHz	30	3.0	5.0	N	12 / 170
PAM-0118	0.02-18 GHz	38	2.5	2.5	N	15 / 185
PAM-0118P	0.02-18 GHz	37	2.8	3.0	N	15 / 280
PAM-1826	18-26.5 GHz	37	1.5	2.5	SMA	15 / 195
PAM-2640	26-40 GHz	22	2.0	4.5	2.9mm	15 / 180
PAM-0126	0.02-26.5 GHz	30	3.1	4.2	SMA	15 / 240
PAM-1840	18-40 GHz	20	3.5	4.5	2.9mm	15 / 180
PAM-1840H	18-40 GHz	25	2.0	3.5	2.9mm	15 / 195
PAM-1840VH	18-40 GHz	35	3.0	2.5	2.9mm	15 / 240

Low-loss high-frequency cables required above 10 GHz.

## Low-Loss Cables

### Features

- High-Frequency
- Impedance (50  $\Omega$ )
- Individually Calibrated
- Custom cable lengths and connector types to Suit Your Specifications

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

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.



Model	Frequency Max	Connectors	Typical Attenuation dB / 3 Meters						Diameter	Weight per 3 M.
			0.4 GHz	1 GHz	10 GHz	18 GHz	26 GHz	40 GHz		
SAC-18G-	18 GHz	Precision N	0.4	0.7	2.0	2.6	--	--	0.335" / 0.9cm	1.24lbs / 562g
SAC-26G-	26.5 GHz	SMA	0.7	1.0	2.8	3.9	5.1	--	0.195" / 0.5cm	0.44lbs / 200g
SAC-40G-	40 GHz	2.9mm	1.1	1.7	5.1	6.5	9.3	10.5	0.120" / 0.3cm	0.17lbs / 77g

specify "-x" the length in meters after the model number





## 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.

Model	Description	Material	Closed Height	Extended Height	Weight
ATU-510	Tripod	WOOD	40" / 101cm	64" / 163cm	11.3lbs / 5.1kg
WEL-510	Tripod Extension Legs	WOOD	28" / 71cm	51" / 130cm	7.0lbs / 3.2kg
ATU-512	Tripod w/ Extension Legs	NYLON	25" / 64cm	62" / 158cm	10.2lbs / 4.6kg
AEH-510	Azimuth/Elevation Head	NYLON			0.7lbs / 0.32kg
AEH-511	Azimuth/Elevation Head	METAL			2.7lbs / 1.2kg
TCC-510	Tripod Carrying Case	FIBERBOARD			6.6lbs / 3.0kg
ABC-B	Biconical Balun Clamp	DELRIN			0.6lbs / 0.27kg
ABC-TD	Tuned Dipole Balun Clamp	DELRIN			0.6lbs / 0.27kg
LPM-510	Log Periodic Tripod Mount	DELRIN			0.7lbs / 0.32kg
BTE-510	Bilogical Tripod Extension	FIBERGLASS			1.1lbs / 0.49kg

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



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

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

## Adapters

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

Additional adapters available to suit all your needs.





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