



Advanced Test Equipment Corp.

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A.H. SYSTEMS

EMC Test Antennas Since 1974



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





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ALL NEW!

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.

..See page 21

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



Improved Design

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.

..See page 15

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



Featured Product

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.

..See page 12

- 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 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



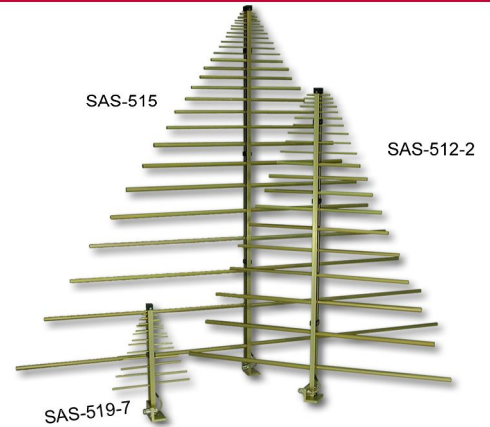


Log Periodic Antennas

Maximum Gain, Low VSWR & High Power

These antennas display efficient performance throughout their broad frequency range.

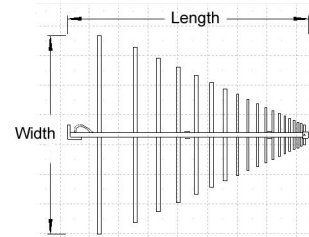
80 MHz - 7 GHz



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.

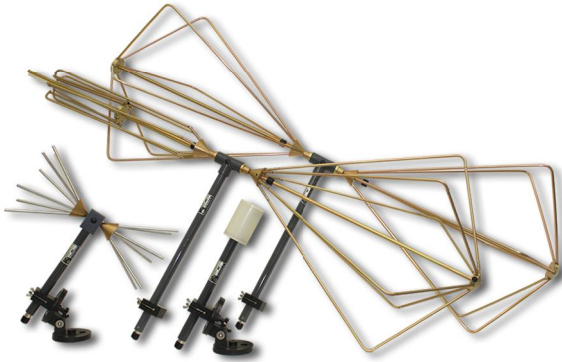
Features

- 50 Ω 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 Preampifiers 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

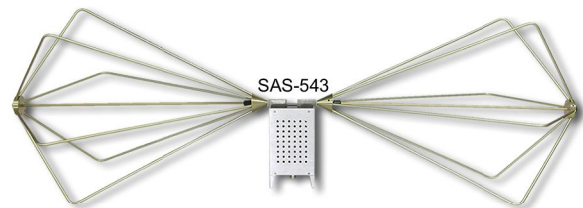
- Wide Operating Frequency 20 MHz - 18 GHz
- Radiated and Immunity
- Individually Calibrated
- Rugged Construction
- FCC, MIL-STD, VDE and TEMPEST Testing
- High Power Input Capability
- Rigid or Folding Elements

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	15" / 38cm	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



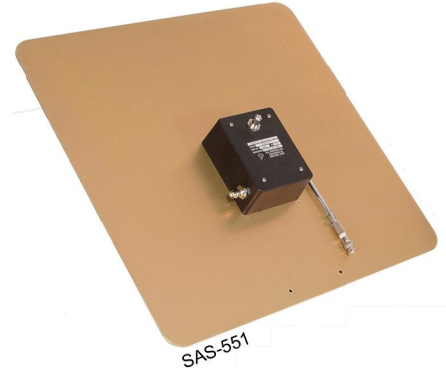
A.H Systems is **"Making the case for more reliable EMI Testing."** We can create custom cases to fit all of your antenna needs.



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 AF (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 AF(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.

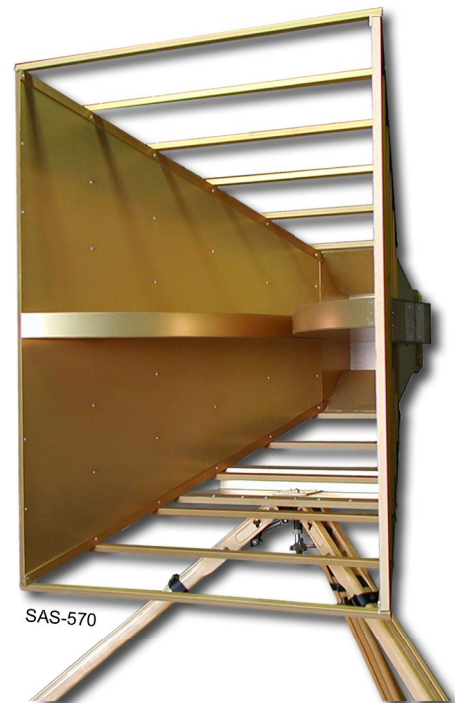
Low-Loss High-Frequency cables required above 10 GHz ...see page 20

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.

0.75 GHz - 40 GHz

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 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-590-13	0.75 - 1.12	16.2	14.0	550	500	N	32.0" / 81cm	19.6" / 50cm	22.6" / 57cm	24.0lbs / 10.9kg
SAS-580	1.12 - 1.70	18.2	14.7	550	700	N	34.4" / 87cm	14.2" / 30cm	20.0" / 44cm	21.0lbs / 9.5kg
SAS-581	1.70 - 2.60	22.1	14.6	500	650	N	27.0" / 69cm	8.5" / 22cm	11.8" / 30cm	10.5lbs / 4.8kg
SAS-582	2.60 - 3.95	25.3	15.0	250	500	N	17.9" / 46cm	6.0" / 15cm	8.1" / 21cm	4.8lbs / 2.2kg
SAS-583	3.95 - 5.85	29.5	14.4	250	500	N	12.0" / 31cm	3.7" / 9.4cm	5.1" / 13cm	2.1lbs / 1.0kg
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-610	20 Hz - 20 MHz	X	X	X	X	X	X
BCP-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	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



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 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

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

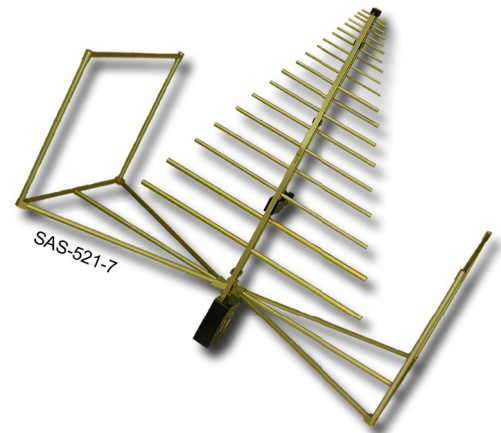
- Wide Operating Frequency 25 MHz - 7 GHz
- Radiated and Immunity
- Individually Calibrated
- FCC, MIL-STD, VDE and TEMPEST Testing
- High Power Input Capability

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	100	1.55	37.3" / 95cm	38.5" / 98cm	22.2" / 56cm	4.4lbs / 2.0kg
SAS-521-4	25-4000	7-37	1000	100	1.66	38.3" / 98cm	38.5" / 98cm	22.2" / 56cm	4.5lbs / 2.1kg
SAS-521-7	25-7000	7-47	1000	100	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	100	1.85	57.0" / 145cm	59.7" / 152cm	35.1" / 89cm	7.6lbs / 3.45kg
SAS-522-5	25-5000	3-41	1000	100	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

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

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.

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

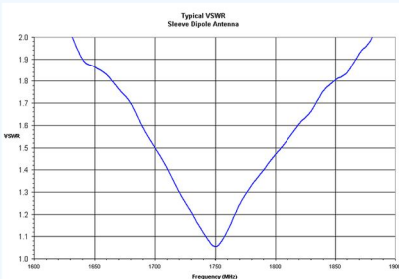
The TV-1 Dipole Antenna Specifications

Frequency Range.....50 MHz - 220 MHz
 Maximum Continuous Power.....60 Watts
 Antenna Factor4 to 16 (dB/m)
 Gain2 (dBi)
 Average VSWR.....< 2:1
 Impedance.....50 ohms
 Connector TypeN-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 Factor20 to 24 (dB/m)
 Gain2 (dBi)
 Average VSWR.....< 2:1
 Impedance.....50 ohms
 Connector TypeN-type (female)
 Weight.....0.4lbs (181g)
 Balun Length.....9" (22.8cm)

Case size
21 1/2" x 17" x 6"
(54cm x 43cm x 15cm)
Kit weight
10 lbs. (4.5 kg)



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.

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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 - 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.

Model	Frequency Range	Typical Transfer Impedance (dB)	Max Cont. Line Current (Amps)	Aperture	Weight
BCP-610	20 Hz-20 MHz	-60 to -10	300	1.25" / 32mm	1.4lbs. / 0.65kg
BCP-611	10 KHz-150 MHz	-25 to 2	450	1.25" / 32mm	1.4lbs. / 0.65kg
BCP-614	10 KHz-300 MHz	-25 to 4	350	2.62" / 67mm	5.5lbs. / 2.5kg
BCP-615	10 KHz-500 MHz	-35 to 17	350	1.25" / 32mm	1.2lbs. / 0.55kg
BCP-616	10 KHz-150 MHz	-25 to 15	600	1.25" / 32mm	1.4lbs. / 0.65kg
BCP-618	100 KHz-500 MHz	-18 to 20	350	2.62" / 67mm	5.6lbs. / 2.54kg
BCP-619	1 KHz-100 MHz	-60 to -75	70	2.62" / 67mm	5.4lbs. / 1.43kg
BCP-620	10 KHz-500 MHz	-29 to 17	200	1.25" / 33mm	1.2lbs. / 0.55kg

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

Model	Frequency Range	Typical Insertion Loss (dB)	Max Cont. Pwr. in (Watts)	Aperture	Outer Diameter	Weight
ICP-621	10 KHz - 100 MHz	33 to 8	100	1.5" / 3.8cm	4.25" / 10.8cm	4.2lbs / 1.9kg
ICP-622	1 MHz - 500 MHz	23 to 4	200	1.5" / 3.8cm	4.25" / 10.8cm	4.2lbs / 1.9kg

Additional Injection Probes Available



Model	Frequency Range	Length	Width	Height	Weight
CPF-630	20 Hz-500 MHz	10" / 25cm	7" / 18cm	6" / 15cm	9.2lbs / 4.2kg
CPF-631	400 MHz-1500 MHz	10" / 25cm	7" / 18cm	7" / 18cm	9.4lbs / 4.3kg
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

Improved



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.

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-0118P	0.02-18 GHz	37	2.8	3.0	N	12 / 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 Ω)
- 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	Wooden Tripod	WOOD	40" / 101cm	64" / 163cm	11.3lbs / 5.1kg
ATU-514	Plastic Tripod	Plastics	33" / 84cm	79" / 200cm	6.2lbs / 2.8kg
WEL-510	Tripod Extension Legs	WOOD	28" / 71cm	51" / 130cm	7.0lbs / 3.2kg
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	DELTRIN			0.6lbs / 0.27kg
ABC-TD	Tuned Dipole Balun Clamp	DELTRIN			0.6lbs / 0.27kg
LPM-510	Log Periodic Tripod Mount	DELTRIN			0.7lbs / 0.32kg
BTE-510	Bilogical Tripod Extension	FIBERGLASS			1.1lbs / 0.49kg

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

Custom antenna cases available

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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"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,
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Case: 28 x 23 x 10 in. 37 Lbs.



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