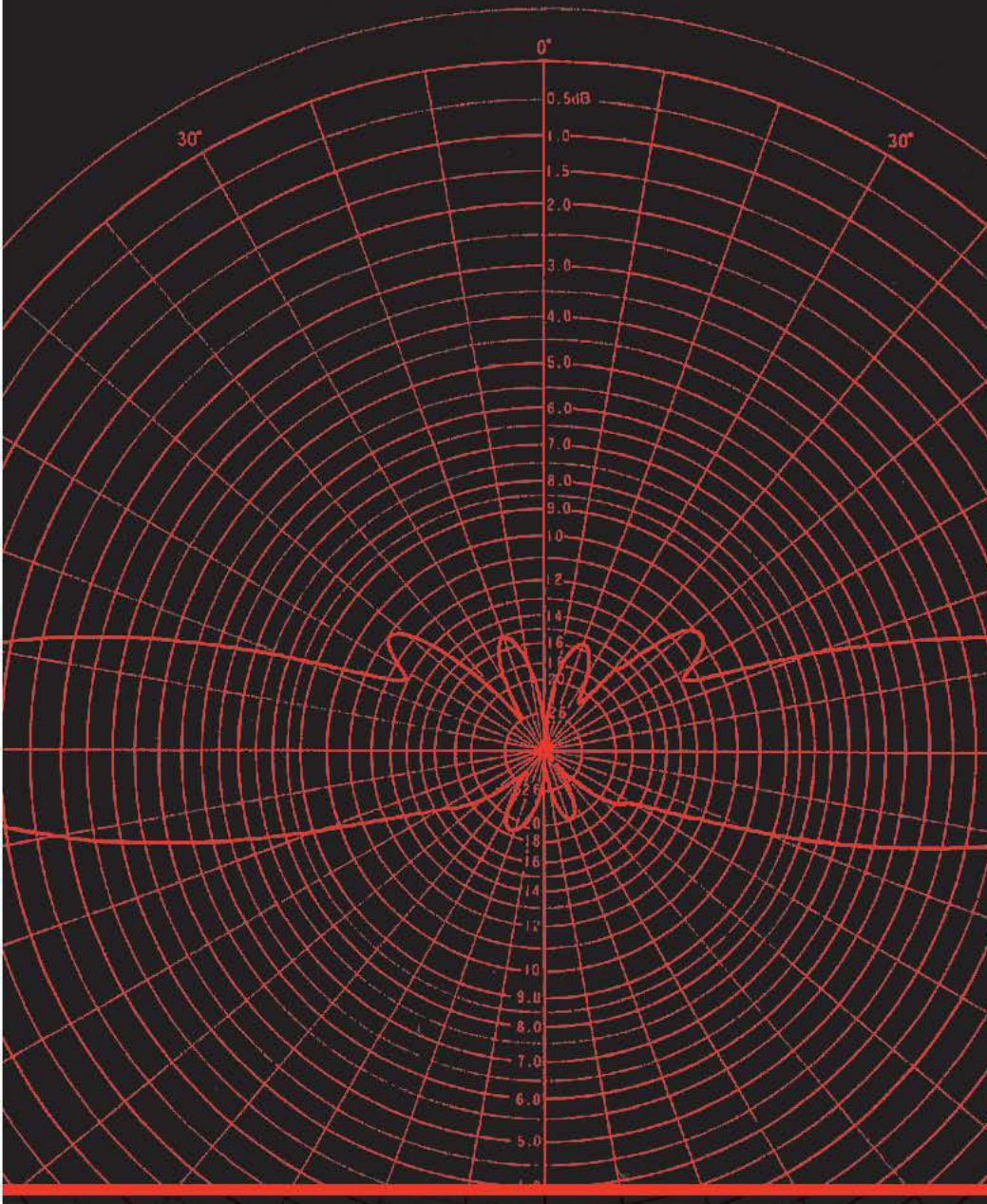


*The Standard By Which  
All Others Are Judged*



**DIAMOND  
ANTENNA**

# DIAMOND ANTENNA



Merit  
W6NQ



Wayne  
KK4BUJ



Denise  
KK4BUK



Gary  
K6CAQ



Breanna  
KK4BUL



Tod



Brian

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### One Year Limited Warranty

One year against manufacturing defects in material & workmanship. The Diamond Antenna Division of RF Parts Co. will repair or replace, at its option, products it deems covered by Limited Warranty. Products damaged due to misuse, improper tuning or installation, or freight handling are not covered by our Limited Warranty. Contact the customer service department for Return Authorization number at 770-614-7443.

### Merchandise Return

Items returned for warranty repair must have copy of original purchase receipt and be shipped insured & prepaid to the address listed on back of catalog. Return Authorization number must be obtained and written on outside of returned package. Fiberglass antennas must be carefully packaged to protect their surfaces from scratches and abrasions. Wrap metal ends of each antenna section to insure against shipping damage to fiberglass.

DO NOT SEND MOUNTING HARDWARE. Loose hardware causes damage to fiberglass sections. Contact the customer service department for Return Authorization and questions pertaining to returns. 770-614-7443.

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# Ruggedized Base/Repeater Antenna

## X50A / X50NA

The X50NA and X50A are excellent choices where ruggedness is required in a medium-gain, dual-band, base/repeater application.

### Features:

- Wide band performance
- No tuning required
- Heavy duty fiberglass radome
- Stainless steel radials and mounting hardware
- Connector: Female  
X50NA Type-N  
X50A SO-239
- Compact size for easy installation

### Specifications:

Frequency: 2m: 144-148 MHz  
70cm: 440-450 MHz  
Gain: 2m: 4.5 dB  
70cm: 7.2 dB  
Power: 200 watts  
Wind Rating: 135 MPH (no ice)  
Height: 5.6 feet

## X30A

The X30A works well in areas where height and/or antenna restrictions are an issue.

### Features:

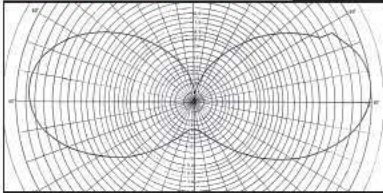
- Wide band performance
- No tuning required
- Heavy duty fiberglass radome
- Stainless steel radials and mounting hardware
- High wind rating
- DC Grounded
- UHF Connector

### Specifications:

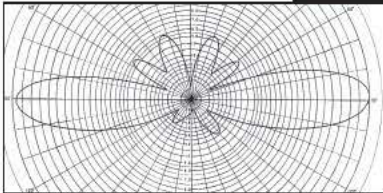
Frequency: 2m: 144-148 MHz  
70cm: 440-450 MHz  
Gain: 2m: 3.0 dB  
70cm: 5.5 dB  
Power: 150 watts  
Wind Rating: 135 MPH (no ice)  
Height: 4.5 feet

### Radiation Pattern

2M

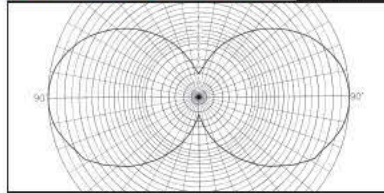


70CM

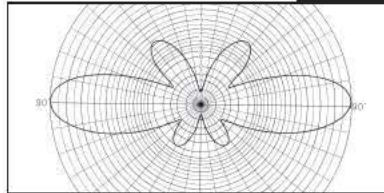


### Radiation Pattern

2M



70CM



## High gain mono and multiband VHF/UHF base station

Diamond base station antennas have the following features:

- Fiberglass radomes (except CP62 & CP610)
- Stainless steel hardware
- Highest gain
- Overlapping outer fiberglass sections for added strength
- Wideband performance
- High wind rating
- Strong waterproof joint couplings
- Factory adjusted, no tuning required
- DC grounded



**X30A  
X50A  
X50NA**



**X200A  
V2000A**



**CP62  
CP610**



**F22A  
X3200A  
X6000A  
F1230A  
X300A  
X300NA**



**X510HDM  
X510HDN  
X510NJ  
F23H  
F718A**

# Discone • Mono & Tri-Band Base Station Antennas

## D SERIES

### Super Discone

The D3000N and D130 Series Super Discones are ultra-wideband antennas covering amateur radio, commercial 2-way, cellular, air traffic control and various utility frequency bands. Stainless steel is employed in major component parts making the antenna rust resistant and durable.

D130J: UHF  
D130NJ: Type-N  
D3000N: Type-N



#### Features:

- Ultra-wideband design, 50-1300 MHz transmit, the D130J and D130NJ receive at 25 to 1300 MHz, and the D3000N receives at 25 to 3000 MHz.
- Compact and lightweight design enables antenna to be installed on balcony railing at an apartment or condominium.
- Ideal for 2m, 1-1/4m, 70cm, 33cm and 23cm amateur bands. D3000N up to 2400 MHz.

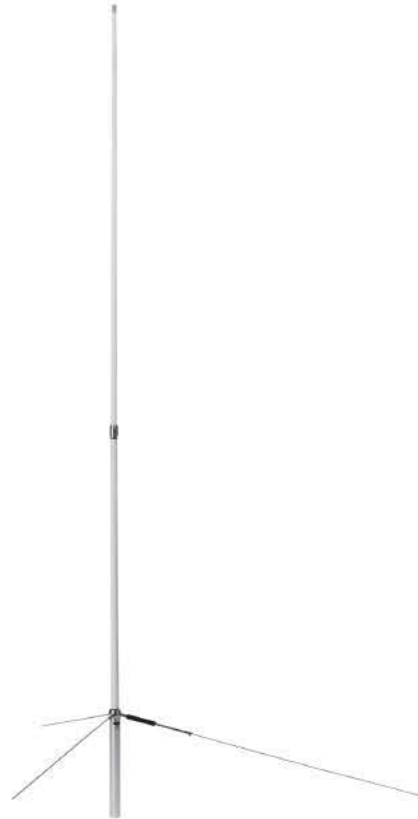
#### Specifications:

- Low VHF range is enhanced by use of a loaded vertical whip, adjustable for 1.5MHz BW on 6m, 50W FM/100W SSB.
- Excellent "shop" antenna for testing various VHF/UHF transmitters on single coax feed.
- The D130J can be made further compact and lightweight by removing the top loading coil if 25-50 MHz reception is not required.

## V2000A

### 6m / 2m / 70 cm Tri-band

The V2000A is the ideal antenna for FM operation on 6 meter, 2 meter, and 70 cm bands. Similar in construction to the X200A dual band, the V2000A has an additional counterpoise radial – adjustable for 6m FM (52-54 MHz only, 1.25 MHz bandwidth on 6m).



With increased 6m activity, enjoy the freedom of 3 bands in one compact antenna.

#### Specifications:

Frequency: 6m/2m/70cm  
Gain: 2.15/6.2/8.4  
Power: 150 watts  
Height: 8.3 feet  
Connector: UHF (SO-239)

## CP22E

### CP22E Monoband

The CP22E is a high-gain monoband antenna made from heavy-duty aluminum construction, at a price your pocket book will like! Rated at 6.5dB gain, the CP22E is an excellent performer, easy to install and would be your best value in an aluminum 2 meter antenna.



#### Features:

- Heavy-duty aluminum antenna sections.
- Encapsulated matching network for weather protection.
- Stainless steel radials and mounting hardware.
- Factory tuned, no adjustments required.

#### Specifications:

Frequency: 144-148 MHz  
Gain: 6.5dB  
Power: 200 watts  
Connector: UHF (SO-239)  
Length: 8.9 feet  
Wind Rating: 70 mph  
Element Phasing: 2-5/8λ

# A SERIES

## Base Station • Yagi Beams

Model #	Band	Freq.	dBi	Watts	Conn.	Length
A502HB	6m (2 element)	50-54 MHz	6.3	400 (PEP)	UHF	37.5"
A144S5	2m (5 element)	144-148 MHz	9	100 (PEP)	UHF	37.5"
A430S10	430 (10 element)	430-440 MHz	13	100 (PEP)	UHF	43"
A430S15	430 (15 element)	430-440 MHz	14.8	100 (PEP)	UHF	89"
W735	80m/40m	3.5-7 MHz		1.2kW (PEP)	UHF	85.3'
W8010	80m/40m/20m/15m/10m	3.5/7/14/21/28 MHz		1.2kW (PEP)	UHF	63'



A430S10 (Photo shows two)

A430S15



W8010

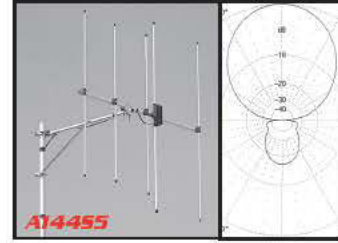


### Side Mount Brackets

KB144 2m  
KB430 430

### Stacking Booms

SB144 2m  
SB430 430



A144S5

A430S10 is shown (above) mounted on stacking boom (SB430).

A144S5 is shown (left) mounted on side mount bracket (KB144). Three minute assembly. Ideal for portable or emergency use.



Stacking Transformer  
S770R: 144MHz/2m  
430MHz/70cm

Connectors:  
Input: SO239/UHF (F)  
Output x2: PL259/UHF (M)



W735

## Base Station Specifications

Model	Bands	Gain/dBi	Max Pwr. Rating	Wind Rating	Height (feet)	Conn.	Element Phasing	Notes
CP62	6m	5.5	200	80	22	UHF	2-5/8λ	A,F,J
CP22E	2m	6.5	200	70	8.9	UHF	2-5/8λ	F
F22A	2m	6.7	200	112	10.5	UHF	2-7/8λ	
F23H	144-174	7.8	350	90	15	UHF	3-5/8λ	H,I
F718A	70cm	11.5	250	90	15	N	18-1/2λ Coaxial Antenna.	
F1230A II	1.2GHz	13.8	100	112	12	N	14-5/8λ	
CP610	6m/10m	5.5/3.4	200	80	22	UHF	6m: 2-5/8λ; 10m: 1-5/8λ	A,F,J
X30A	2m/70cm	3.0/5.5	150	135	4.5	UHF	2m: 1-1/2λ; 70cm: 2-5/8λ	
X50A	2m/70cm	4.5/7.2	200	135	5.6	UHF	2m: 3-1/4λ; 70cm: 3-5/8λ	
X50NA	2m/70cm	4.5/7.2	200	135	5.6	N	2m: 3-1/4λ; 70cm: 3-5/8λ, repeater version	
X200A	2m/70cm	6.0/8.0	200	112	8.3	UHF	2m: 2-5/8λ; 70cm: 4-5/8λ	
X300A	2m/70cm	6.5/9.0	200	112	10	UHF	2m: 2-5/8λ; 70cm: 5-5/8λ	
X300NA	2m/70cm	6.5/9.0	200	112	10	N	2m: 2-5/8λ; 70cm: 5-5/8λ	
X510HDM	2m/70cm	8.3/11.7	330/250	90	17.2	UHF	2m: 3-5/8λ; 70cm: 8-5/8λ	H
X510HDN	2m/70cm	8.3/11.7	330/250	90	17.2	N	2m: 3-5/8λ; 70cm: 8-5/8λ	H
X510NJ	144-147/430-440	8.3/11.7	200	90	17.2	UHF	Optimized 143.5-146.5/428-442 MHz	
X500HNA	2m/70cm	8.3/11.7	200	90	17.8	N	HD Repeater version of X510NA	
X3200A	2m/1-1/4m/70cm	6.0/7.8/8.0	100/200	112	10.5	UHF	2m: 3/4λ; 1-1/4m: 3-5/8λ; 70cm: 3-5/8λ	C
X6000A	2m/70cm/23cm	6.5/9/10	100/60	112	10.5	N	2m: 2-5/8λ; 70cm: 5-5/8λ; 23cm: 6-5/8λ	
V2000A	6m/2m/70cm	2.1/6.2/8.4	150	110	8.3	UHF	6m: 1/4λ; 2m: 2-5/8λ; 70cm: 4-5/8λ	B, D
D130J	25-1300 MHz	2 dBi nom.	200	-	5.6	UHF	Wideband Discone. 6m: 50 Watts.	A
D130NJ	25-1300 MHz	2 dBi nom.	200	-	5.6	N	Wideband Discone. 6m: 50 Watts.	A
D3000N	25-3000 MHz	2 dBi nom.	50/20 FM	-	5.6	N	Wideband Discone.	

NOTES: A. Adjustable 50-54MHz. B. 1/4λ, rated in dBi C. 2m: 146-148MHz D. 6m: 52-54MHz

F. Heavy Duty Aluminum. Frequency: 6m: 50-54MHz 2m: 144-148MHz 1-1/4m: 222-225MHz 70cm: 440-450MHz 23cm: 1240-1300MHz

G. Tunable, 10MHz BW. H. High Power I. Tunable 144-174 with cutting chart. J. 500w P.E.P./200w FM

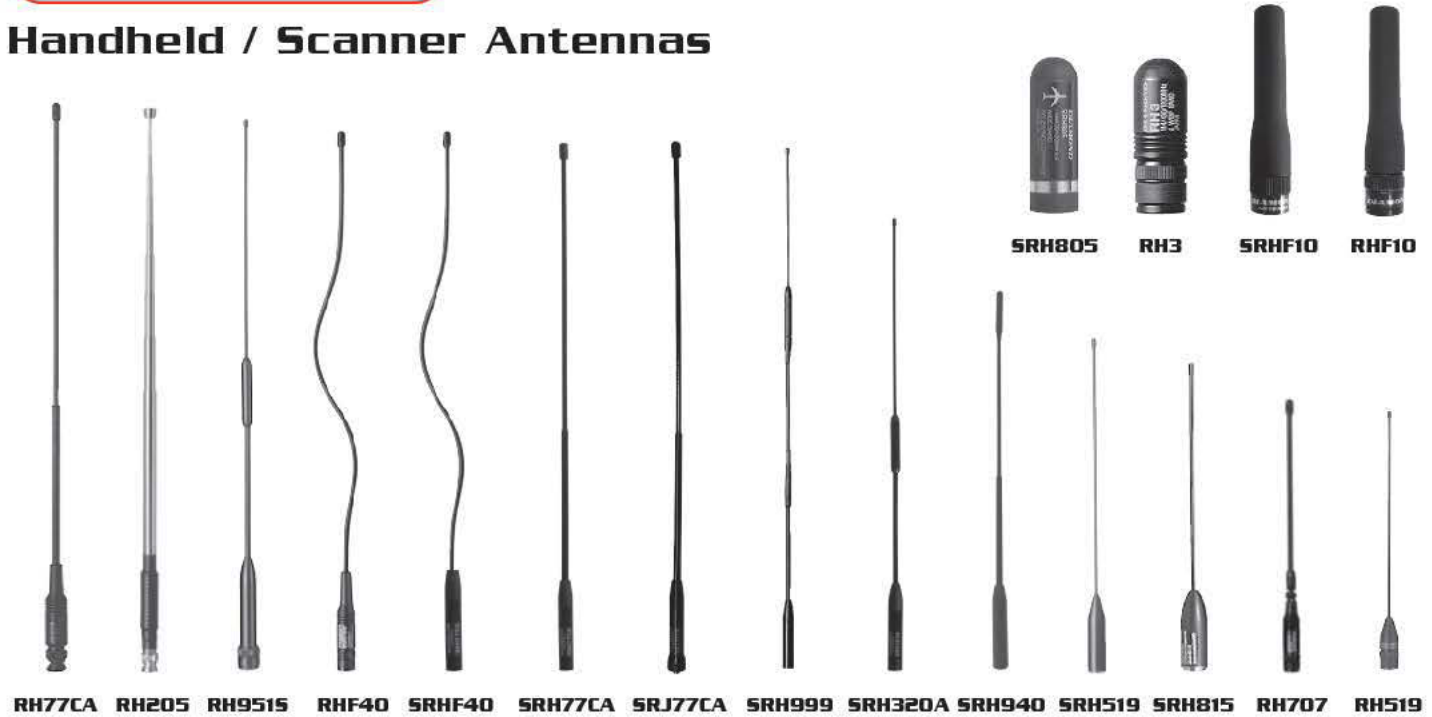
Wireless-LAN • Fiberglass Omni



Model #	Band	Frequency	dBi	Watts	Conn.	Length
F2405L	1/2λ (6 element)	2400-2500 MHz	5	10	N - (F)	22.8"
F2407L	1/2λ (8 element)	2400-2500 MHz	7	10	N - (F)	27.5"
F2409L	1/2λ (12 element)	2400-2500 MHz	9	10	N - (F)	35"
G200	1/2λ (19 element)	2.4 GHz	11	10	N - (F)	58"

RH / SRH SERIES

Handheld / Scanner Antennas



Model	Bands	Gain (relative)	Max Pwr Watts	Length Inches	Conn.	Description
RH3	2m/70cm	- 2dB	10	1.75	BNC	"Black Bullet", + 120-900 receive, compact design.
RHF10	2m/70cm		6	2.75	BNC	Air Band 150/300/450/800/900 Mhz (Rec.)
RH77CA	2m/70cm	+ 6dB	10	15	BNC	High Gain, + Receive to 900 MHz.
RH205	2m	+ 9dB	10	47.5 / 9	BNC	Telescopic, 1/4λ retracted, 5/8λ fully extended.
RH519	2m/70cm	+ 3dB	10	8	BNC	Flexible slim design.
RH707	2m/70cm	+ 3dB	10	8.25	BNC	Tiltable whip.
RH789	VHF/UHF	+6/+9dB	10	31.7/7.9	BNC	Adjustable, see page 15.
RH951S	2m/70cm/23cm	+ 6dB	10	14	BNC	High gain tri-band, flexible slim design.
RHF40	2m/70cm	+ 6dB	10	16	BNC	High Gain, + Receive to 900 MHz. Flexible.
SRHF40	2m/70cm	+ 6dB	10	16	SMA	High Gain, + Receive to 900 MHz. Flexible.
SRH805	2m/70cm/23cm	- 2dB	10	1.75	SMA	Tri-band compact design.
SRHF10	2m/70cm		6	2.75	SMA	Air Band 150/300/450/800/900 Mhz (Rec.)
SRH940	6m/2m/70cm	+3dB	10	17.75	SMA	Tri-band, high gain.
SRH77CA	2m/70cm	+ 6dB	10	15	SMA	High Gain, + Receive to 900 MHz. Flexible.
SRJ77CA	2m/70cm	+ 6dB	10	15	SMA (F)	High Gain, + Receive to 900 MHz. Flexible. <b>WOUXON</b>
SRH320A	2m/1-1/4m/70cm	+ 3dB	10	13.75	SMA	Tri-band, flexible slim design with SMA.
SRH519	2m/70cm	+ 3dB	10	8	SMA	Flexible slim design with SMA.
SRH789	VHF/UHF	+6/+9dB	10	31.7/7.9	SMA	Adjustable, see page 15.
SRH815	2m/70cm/23cm	+ 3dB	6	6	SMA	Tri-band, flexible slim design with SMA.
SRH999	6m/2m/70cm/23cm		10	19.5	SMA	Quad-band, high-gain.

\*rated against typical stock HT antennas

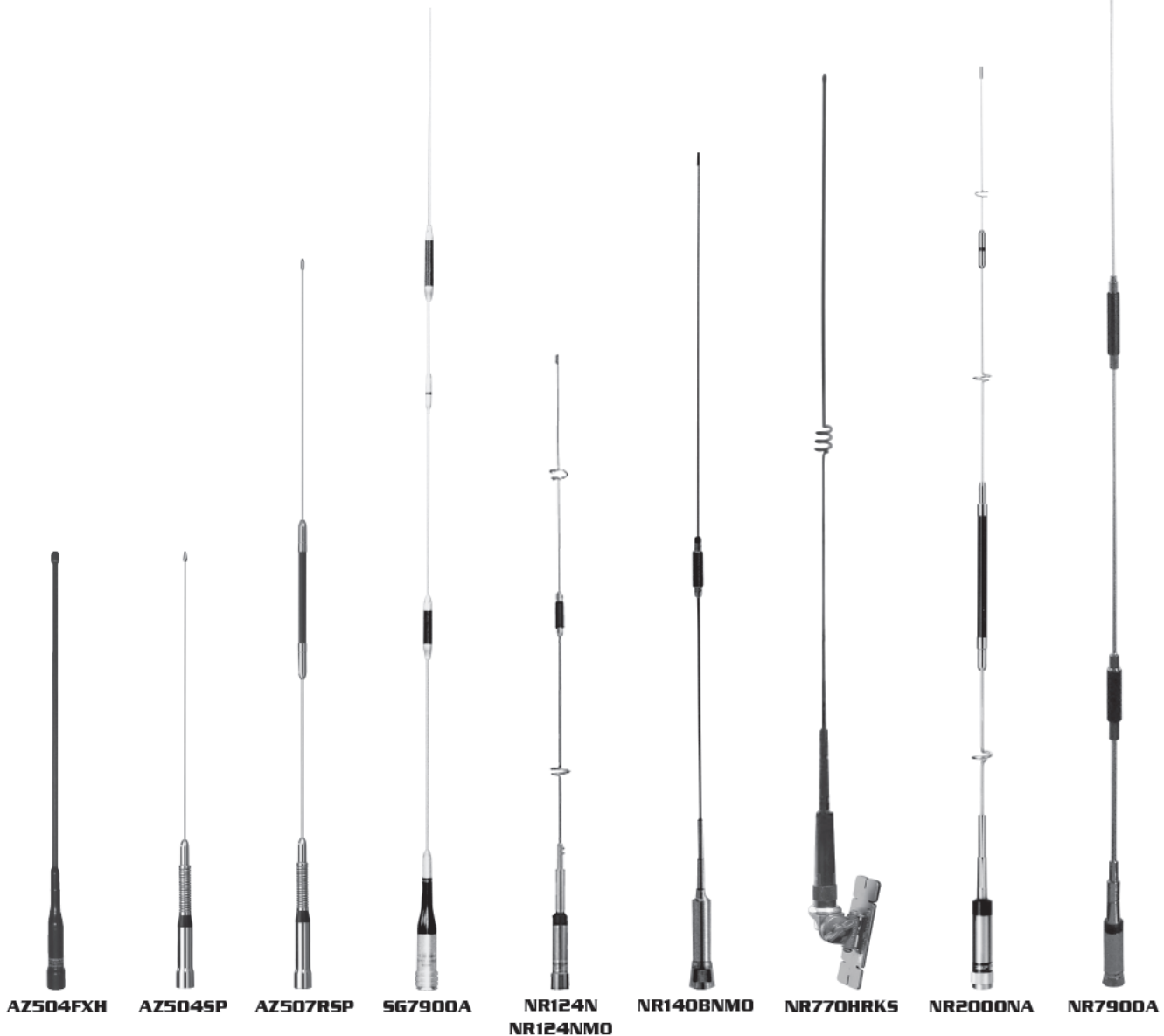
HT Antenna is rated at 0 dB.

WOUXON: The SRJ77CA is specifically made for Wouxon and other SMA Male radios.

## Mobile Antennas

Model#	Band	Element Phasing	dBi	Watts	Conn.	Length
AZ504FXH	2m/70cm	1/4λ, 1/2λ	2.15	50	UHF	15.5"
AZ504SP	2m/70cm	1/4λ, 1/2λ	2.15	50	UHF	15.5"
AZ507RSP	2m/70cm	1/2λ, 2-5/8λ	2.15/4.9	50	UHF	27.5"
SG7900A	2m/70cm	7/8λ, 3-5/8λ	5.0/7.6	150	UHF	62"
NR124N	23cm	4-5/8λ	8.4	100	N	25"
NR124NMO	23cm	4-5/8λ	8.4	100	NMO	25"
NR140BNMO	222-225 MHz	1 1/2+1/4λ	3.8	100	NMO	36.2"
NR770HRKS*	2m/70cm	1-1/4λ, 2-5/8λ	3.0/5.5	200	UHF	40.2"
NR2000NA	2m/70cm/23cm	1/2λ, 2-5/8λ, 5-5/8λ	3.15/6.3/9.7	100	N	39"
NR7900A	2m/70cm	1/2λ+1/4λ, 3-5/8λ	3.7/6.4	300/250	UHF	57"

\* Includes HRKS adhesive backed UHF (SO-239) mount, 13.5' RG316 Teflon® coax cable with SMA & PL-259 "UHF" adapter.



AZ504FXH

AZ504SP

AZ507RSP

SG7900A

NR124N  
NR124NMO

NR140BNMO

NR770HRKS

NR2000NA

NR7900A



## Mobile Installation Tips



### K400/K600 Series Mounts

K400/K600 Series mounts may be grounded by trimming 1/2" from the aluminum reinforcement strip supplied with mount.

### Mounting is a Snap!

HV7A with K400C mount on Jeep Wrangler.



### Get Creative!

K540 mounted on a 1991 Harley.

### Trucks with 3-4 Doors

Convenient ways to install your new antenna, as shown below. Easily fitted mounts and convenient placement yields an excellent installation.

K400S shown on the third door of a 1998 Dodge Truck.



K412C & SG7500A shown on the hatchback of a Nissan Xterra.

## Mobile Antenna Specifications

Model	Bands	Gain dBi	Max Pwr. Rating	Length Inches	Mount	Element Phasing	Notes
SG7000A	2m/70cm	2.15/3.8	100	18.5	UHF	2m: 1/4λ ; 70cm: 3/8λ	A, B
SG7500A	2m/70cm	3.5/6.0	150	40.6	UHF	2m: 1/2λ ; 70cm: 2-5/8λ	
SG7500NMO	2m/70cm	3.5/6.0	150	41	NMO	2m: 1/2λ ; 70cm: 2-5/8λ	
SG7900A	2m/70cm	5.0/7.6	150	62.2	UHF	2m: 2-1/4λ + 1-3/8λ ; 70cm: 3-5/8λ	A
SG7900NMO	2m/70cm	5.0/7.6	150	62.2	NMO	2m: 2-1/4λ + 1-3/8λ ; 70cm: 3-5/8λ	A
AZ504FXH	2m/70cm	2.15	50	15.5	UHF	2m: 1/4λ ; 70cm: 1/2λ	A, B
AZ504SP	2m/70cm	2.15	50	15.5	UHF	2m: 1/4λ ; 70cm: 1/2λ	A, B, E
AZ507RSP	2m/70cm	2.15/4.9	50	27.5	UHF	1/2λ, 2-5/8λ, radialless	E
NR140BNMO	1-1/4m	4.0	150	36.2	NMO	1/2λ + 1/4λ	Black
NR124N	23cm	8.4	50	25	N	4-5/8λ	
NR124NMO	23cm	8.4	100	25	NMO	4-5/8λ	
NR770HA	2m/70cm	3.0/5.5	200	40.2	UHF	2m: 1/2λ ; 70cm: 2-5/8λ	
NR770HNMO	2m/70cm	3.0/5.5	200	38.2	NMO	2m: 1/2λ ; 70cm: 2-5/8λ	
NR770HB	2m/70cm	3.0/5.5	200	40.2	UHF	2m: 1/2λ ; 70cm: 2-5/8λ	Black
NR770HBNMO	2m/70cm	3.0/5.5	200	38.2	NMO	2m: 1/2λ ; 70cm: 2-5/8λ	Black
NR72BNMO	2m/70cm	2.15/2.15	100	13.8	NMO	2m: 1/4λ ; 70cm: 1/2λ	A, B, Black
NR73BNMO	2m/70cm	2.15/5.3	100	33.5	NMO	2m: 1/2λ ; 70cm: 2-5/8λ	Black
NR2000NA	2m/70cm/23cm	3.15/6.3/9.7	100	39	N	2m: 1/2λ ; 70cm: 2-5/8λ; 23cm: 5-5/8λ	
NR7900A	2m/70cm	3.7/6.4	300/250	58	UHF	2m: 1/2+1/4λ ; 70cm: 3-5/8λ	A
CR270A	2m/70cm	2.15	50	17.3	UHF	2m: 1-1/4λ ; 70cm: 1-5/8λ	B, Black
CR320A	2m/1-1/4m/70cm	2.15/3.8/5.5	200/200/100	37.4	UHF	2m: 6/8λ ; 70cm: 3-5/8λ	A, B, Black
CR320BNMO	2m/1-1/4m/70cm	2.15/3.8/5.5	200/200/100	37.4	NMO	2m: 1/4λ ; 1-1/4m: 1/2λ ; 70cm: 2-5/8λ	A, B, Black
CR627B	6m/2m/70cm	2.15/4.5/7.2	120	60	UHF	6m: 1/4λ ; 2m: 3-1/4λ ; 70cm: 3-5/8λ	A, B, Black
CR627BNMO	6m/2m/70cm	2.15/4.5/7.2	120	60	NMO	6m: 1/4λ ; 2m: 3-1/4λ ; 70cm: 3-5/8λ	A, B, Black
CR8900A	10m/6m/2m/70cm	2.15/5.5(70cm)	60	50	UHF	6m/10m: 1/4λ; 2m: 1/2λ; 70cm: 2-5/8λ	A, B
HV7A	10m/6m/2m/70cm	2.15/3.4/5.5	120/200	54	UHF	6m/10m: 1/4λ; 2m: 5/8λ; 70cm: 2-5/8λ	D

NOTES: A. Not recommended for Magnet Mount. B. Grounding required. C. 6m antennas adjustable. D. Loading Coils on pg. 10. E. Spring above base. 1/4λ, rated in dBi Frequency: 6m: 52-54MHz 2m: 144-148MHz 1-1/4m: 222-225MHz 70cm: 440-450MHz 23cm: 1240-1300MHz

## HV7A SERIES

### HF / VHF Mobile Antenna

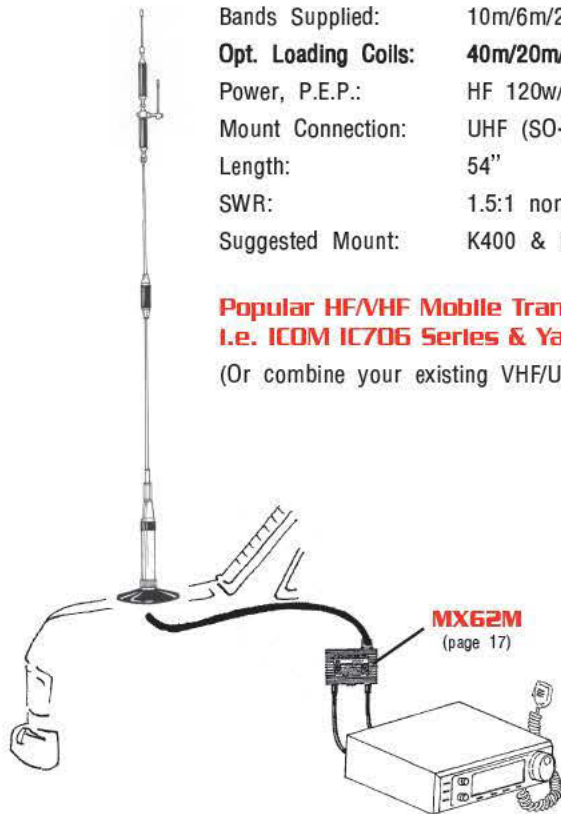
#### Diamond HV7A Mobile Antenna System for HF/VHF Transceivers

The HV7A is a mobile antenna system with 5 band capability: 70cm, 2m, 6m, and 2 HF bands. Ideal for users of Icom IC706, IC7000 series and Yaesu FT100, FT857, FT8900 and similar transceivers. Addition of MX62M duplexer couples HF/VHF outputs to single coaxial connection. Unlike other multi-band antennas, the HV7A has no moving of connections, switches, jumpers, etc. Fold-over hinge allows for easy access into low over-head buildings.

Bands Supplied: 10m/6m/2m/70cm  
 Opt. Loading Coils: 40m/20m/17m/15m  
 Power, P.E.P.: HF 120w/VHF 200w  
 Mount Connection: UHF (SO-239)  
 Length: 54"  
 SWR: 1.5:1 nominal  
 Suggested Mount: K400 & K600 Series

#### Popular HF/VHF Mobile Transceivers; I.e. ICOM IC706 Series & Yaesu FT100

(Or combine your existing VHF/UHF & HF Equipment)



## SD330 SERIES

### Screwdriver Antenna

#### SD330 / SD330-3/8

The SD330 can be used from 3.5-30 MHz. If using element OPE750 (included) instead of original element, it can be used from 7-50 MHz.

OPE750 element is 17" shorter than original. To change the element, you only need to loosen one set screw.

Band: 3-30 MHz  
 7-50 MHz with OPE750  
 Watts: 200  
 Connector: SD330: UHF (PL-259)  
 SD330-3/8: 3/8-24

Height: 66" @ 28 MHz  
 73" @ 3 MHz  
 30.3" @ 7-50 MHz  
 Element: 1/4λ Center Loading  
 VSWR: Less than 2.0



**Multi-Band Mobile Antenna**



**CR270A**

Spring is for cosmetics only

Band: 2m/70cm  
 Gain (dBi): 2.15  
 Watts: 50  
 Connector: UHF (PL-259)  
 Height: 17.3"  
 Element: 1-1/4λ, 1-5/8λ



**CR8900A**  
**Antenna designed specifically for the Yaesu FT8900.**

The CR8900A is pretuned to give best bandwidth and VSWR over the FM portions of 10m, 6m, 2m, and 70cm ham bands when mounted on the side of vehicle (i.e. trunk lid. Not recommended for through the roof mounts.) Use K400 or K600 series mounts.

Band: 10m/6m/2m/70cm  
 Gain (dBi): 2.15(10m/6m/2m); 5.5(70cm)  
 Watts: 60  
 Connector: UHF (PL-259)  
 Height: 50"  
 Element: 1/4λ-10/6; 1/2λ-2m; 2-5/8λ-70cm



**CR320A**

Band: 2m/1-1/4m/70cm  
 Gain (dBi): 2.15/3.8/5.5  
 Watts: 200/200/100  
 Connector: UHF (PL-259)  
 Height: 37.4"  
 Element: 2m: 1/4λ, 1-1/4m: 1/2λ, 70cm: 2-5/8λ

**CR320BNMO**

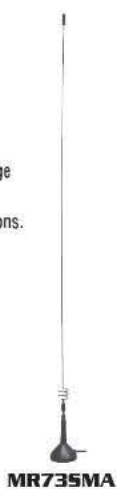
Band: 2m/1-1/4m/70cm  
 Gain (dBi): 2.15/3.8/5.5  
 Watts: 200/200/100  
 Connector: NMO  
 Height: 37.4"  
 Element: 2m: 1/4λ, 1-1/4m: 1/2λ, 70cm: 2-5/8λ

**HF, M & NR SERIES**

**Mono and Dual Band**

Model#	Band	Element Phasing	dBi	Watts	Conn.	Length
HF6FX	6m	1/4λ	2.15	250	UHF	40"
HF6CL	50 MHz	1/2λ Radialless		250 SSB, 80 FM	UHF	86.6"
HF40CL	7.0 MHz	1/4λ		200 SSB, 70 FM	UHF	86.6"
HF80CL	3.5 MHz	1/4λ		120 SSB, 40 FM	UHF	87.5"
M285	2m	5/8λ	3.4	200	UHF	52.4"
M285SNMO	2m	5/8λ	3.4	200	NMO	52.4"
M685	6m	1/4λ	2.15	200	UHF	52.4"
M685SNMO	6m	1/4λ	2.15	200	NMO	52.4"
MG200	2.4 GHz	3-1/2λ	7	10	N	23.6"
MR75S*	2m/70cm	1-1/4λ, 1-5/8λ	2.15/3.4	35	MAG/SMA	20"
MR77	2m/70cm	1/4λ, 1/2λ	2.15/3.4	70	MAG/SMA	20"
MR77SMA	2m/70cm	1/4λ, 1/2λ	2.15/3.4	70	MAG/SMA	20"
MR73SMA*	2m/70cm	1/4λ, 1/2λ	2.15/3.4	10	MINI-MAG/SMA	19.5"
NR22L	2m	2-5/8λ	6.5	100	UHF	96.8"

\* Adjustable hinge for multiple mounting options.



**MR73SMA**



**MR75S**



**MR77  
MR77SMA**



**MG200**



**HF6FX**



**M285  
M285SNMO  
M685  
M685SNMO**



**HF6CL  
HF40CL  
HF80CL**



**NR22L**

## Trunk Lid & Hatchback Mounts

Variety of deluxe, premium grade mobile antenna mounts. Trunk lid, hatchback, mirror, luggage rack, etc. Diamond Antenna mounts require no holes. Rubber mounting pad on trunk lid mounts protect vehicle paint. K400 & K600 Series use extra set screws to insure mounting strength of larger antennas. Most mounts available with C Series and S Series Teflon® cable assemblies for easy installations of both front and trunk mount radios.

**Features:**

- No holes/drilling required
- Rubber mounting pad protects mounting surface
- Four set-screws insure mount strength for larger antennas
- 2-axis adjustable

**K400**

Deluxe heavy duty trunk lid/hatchback mounts. Strongest, most universal mobile mounts available. 2-axis adjustment gives flexibility in mounting location, i.e. trunk lid, hatchback, vertical door, etc. Recommended for large VHF/UHF and medium size HF antennas, including the Yaesu ATAS-100, ATAS-120, TARHEEL II, and Diamond SD330 Series. Available in SO-239 "UHF", NMO, Type-N, and 3/8-24 thread. Use C110 Series for front radio installations.



- K400:** Mount only
- K400C:** SO-239 base to PL-259 with 6.5' C-series Teflon® coax cable.
- K400CNMO:** NMO base to PL-259 with 6.5' C-series Teflon® coax cable.
- K400-3/8C:** 3/8-24 thread to PL-259 with 6.5' C-series Teflon® coax cable.
- K400S:** SO-239 base to SMA with 13.5' C-series Teflon® coax cable. PL-259 adapter included.
- K400SNMO:** NMO base to SMA with 13.5' C-series Teflon® coax cable. PL-259 adapter included.

**K400-3/8C\***

**Special Trunk Mount for 3/8-24 Thread Antennas**

Ideal mount for SD330-3/8, Outbacker Perth, Tarheel II, OB Jr., and other medium weight antennas using 3/8-24 base. 2 axis of adjustment.

**Power:** 1kW; 1-30 MHz

**Cable:** 6.5' RG316 Teflon® coax & PL-259

\*Use C110 Series for front radio installations. Spring recommended for stiff/heavy antennas.



SD330-3/8 with K400-3/8C Mount



**K412**

Two-axis adjustable mount with wing nut fold-over for medium weight antennas. Black finish. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45".

- K412C:** SO-239 base to PL-259 with 6.5' C-series Teflon® coax cable.
- K412CNMO:** NMO base to PL-259 with 6.5' C-series Teflon® coax cable
- K412S:** SO-239 base to SMA with 13.5' C-series Teflon® coax cable. PL-259 adapter included.
- K412SNMO:** NMO base to SMA with 13.5' C-series Teflon® coax cable PL-259 adapter included.



The K412C mounted on the hatchback door of a Nissan Xterra.

## Luggage Rack Mounts

### K515 Series

Deluxe Luggage Carrier Mount. Ideal for new SUV designs.

**K515S:** SO-239 base with 13.5' RG316 and SMA connector with PL-259 adapter.

**K515NMO:** NMO base with 13.5' RG316 and SMA connector with PL-259 adapter.



See our website or call for additional dimensional info.

### K550 / K550L

Deluxe, adjustable Luggage Rack Mount with wing nut antenna fold over feature. Ideal for new minivan racks. Black finish. For lightweight to medium size antennas (45" maximum).

**K550:** Mount only.

**K550L:** Mount only, large. For luggage racks over 2".

**K550KM:** SO-239 "UHF" base, 16.5' RG58A/U cable & PL-259.



### K540

Deluxe, adjustable Mirror/Luggage Rack Mount with wing nut antenna fold over feature. Fits 1/2" to 7/8" tubing mirrors or utility racks. Black finish. For lightweight to medium size antennas (45" maximum).

**K540:** Mount only.

**K540KM:** SO-239 "UHF" base, 16.5' RG58A/U cable & PL-259.



### K600 Variable Angle Trunk Mount

Deluxe, heavy duty, aerodynamic design. Vertical adjustment range 0-9°. Four set screw, stainless steel mount assembly. Recommended for high-gain VHF/UHF antennas.

**K600M:** SO-239 base, 16.5' two-step RG188+5D cable assembly and PL-259.

**K600S:** SO-239 base, 13' RG316 cable with SMA connector & PL-259 adapter.



## Specialty Mounts

### K9000 Series Motorized Mount

Raise and lower your antenna with a touch of the button with Diamond's K9000 motorized mount.



- Accepts "Ground Independent" antennas up to 45" in length.
- 0-90° Range. Operates from 12VDC with fused cigarette plug. Includes 20ft. cable to switch.
- Compatible with Diamond C-Series base/cable assemblies.
- Recommended antennas: NR73BNMO, NR770 Series, SG7500A, & SG7500NMO.



**K9000TM:** Trunk mount.  
**K900LRM:** Luggage rack mount.  
**K900LRMO:** Luggage rack mount, oversize.

### HRKS Adhesive Backed Mount



Adhesive backed for flat surface installations including glass, fiberglass, and metal. 13.5' RG-316/B coax with SMA connector.



PL-259 adapter included. Recommended antennas: NR770HA and NR770HB.

**HRKS:** Mount and Cable.  
**NR770HRKS:** Mount with NR770HB.

### CRM Mirror & Luggage Rack Mount

Stainless steel right angle mount with U-bolt.



#### Recommended for:

- Motor home ladders
- Luggage racks
- Balcony railings
- Lumber racks
- Pipe racks

*Note: Where mounting source does not provide adequate ground, use a non-radial antenna.*

### Magnet Mounts

#### SPM Series



Premium magnet mount base. Heavy duty 2.2 lbs., 4" diameter magnet mount. Rated 25-500 MHz. Available in SO-239, Type-N, & NMO. Recommended for antennas under 45".



**SPM35** SO-239 base 13' 3.5D-2V coax & PL-259  
**SPMNMO** NMO base 13' 3.5D-2V coax & PL-259  
**DPK4-NM-N** Type-N base 13' 3.5D-2V coax & Type-N.

#### K702M

Deluxe low profile magnet mount. Combines holding power of a magnet and suction from specially designed base. For ease of removal, vacuum may be released by lifting tab. Aerodynamic styling, large 6 3/8" dia., 3/4" h. For



VHF/UHF antennas up to 50" h. Includes thin mylar protective sheet to enhance grip and protect paint. Cable: 13' RG58A/U & PL-259.

**K702M**

## D220 Mobile Scanner Antenna

The **D220** mobile discone antenna offers outstanding broadband reception performance from 100MHz to 1600MHz. The discone is vertically polarized and omnidirectional. The upper element is tuned for the 144, 440, 902 and 1.2Ghz ham bands and allows you to transmit at a maximum power level of 50 watts. The antenna will mount on the Diamond K400/K600 series of mounts and will withstand wind speeds in excess of 100MPH.



## RH789 & SRH789 HT Telescoping Antennas

95MHz to 1100MHz, AM/FM receiving (at full length), omnidirectional, telescoping, folds at base.

**RH789** Connector: BNC,  
**SRH789** Connector: SMA.

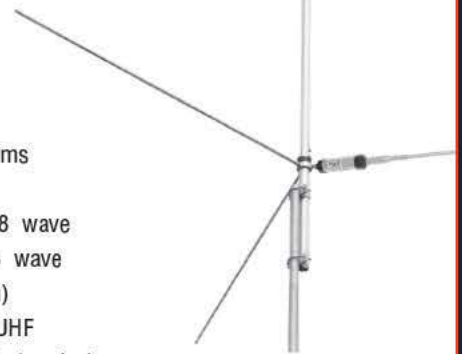
Bands: 1/4wave (95 to 300MHz),  
1/2wave (300 to 1100MHz)  
Gain (relative): 2.15dBi / 3.2dBi  
Impedance: 50ohms  
Max Power Rating: 10 watts  
Length: 7.9" (retracted),  
31.7" (full length), 6 stages  
Weight: 1 oz.



## CP610 Dual Band 6m/10m Vertical Antenna

- Heavy-duty aluminum
- Overlapping outer shells for added strength
- Stainless steel hardware
- Wide band performance
- Highest gain
- High wind rating
- DC grounded

Frequency: 6m, 10m  
Power: 500 watts SSB,  
200 watts FM  
Gain: 5.5 dB (6m)  
Impedance (output): 50 ohms  
VSWR: 1.8:1 (Nominal)  
Element Phasing: 6m: 2-5/8 wave  
10m: 5/8 wave  
Overall Length: 22' (6.7m)  
Connector: SO239 female UHF  
Max Wind Rating: 80 mph (no ice)  
Mast Diameter Acceptance: 1.2" - 2.4"

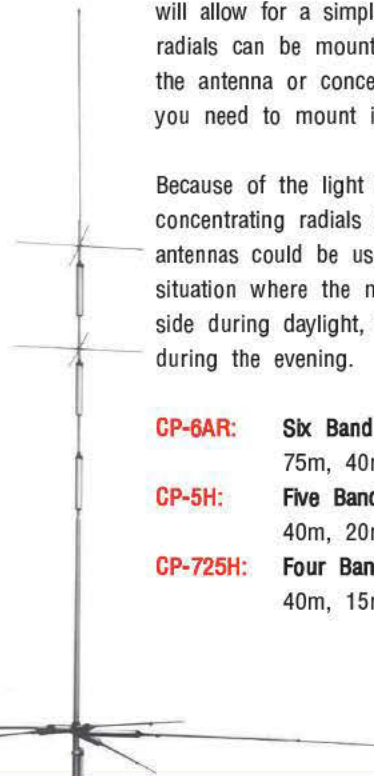


## CP Series Multiband Trap Vertical Antennas

Diamond's **CP Series** vertical antennas with trap radials are light weight antennas, which makes them very manageable during the installation process and will allow for a simple mast solution. The radials can be mounted 360 degrees around the antenna or concentrated on one side if you need to mount it close to a structure.

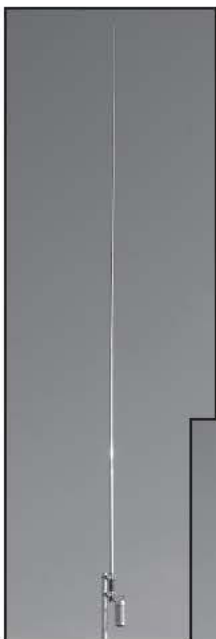
Because of the light weight and the option of concentrating radials to one side, the CP Series antennas could be used in an antenna restricted situation where the mast was lowered on its side during daylight, and raised while operating during the evening.

- CP-6AR: Six Band**  
75m, 40m, 20m, 15m, 10m, 6m
- CP-5H: Five Band**  
40m, 20m, 15m, 10m, 6m
- CP-725H: Four Band**  
40m, 15m, 10m, 6m



## BB7V Multiband Vertical Antenna

Diamond's new **BB7V** multiband vertical antenna provides coverage from 2 MHz to 30 MHz without radials. The BB7V has 6 telescoping sections that nest in each other with a collapsed length of 5 feet and extends to a length of 22 feet when fully deployed. These sections are self locking (no hardware to lose) and can be raised or lowered in less than a minute. For permanent use, each section can be locked in place with a single screw. The extreme ease of raising and lowering this 4.5 pound antenna will make it a favorite for those who have antenna restrictions or travelers wanting a quick and easy wide band antenna solution.



## Cable Assemblies & Adapters

C-Series Cable Assemblies C101, C211 & C213 fit all Diamond Antenna mounts (except K600). Use of very flexible RG316 Teflon® 1/8" diameter coax and small mini-UHF connectors allow easy installation through tight vehicle body panels. Special low-loss PL259 adapter included. C101 & C110BNC or C110SMA provides excellent flexible connection for an HT.



- C101**
- Ideal cable assembly for trunk mount/remote head installations.
  - SO-239 "UHF" base
  - 6.5' RG316 Teflon® coax
  - PL-259



- C211** (combination of C101 & C110)
- 6.5' RG316 Teflon® 1/8" diameter coax
  - RG8X/Mini-8 coax with mini UHF connectors.
  - Low-loss PL259 adapter included
  - SO239 base connector



- C101NMO**
- NMO base
  - 6.5' RG316 Teflon® coax
  - PL-259



- C110BNC**
- 10' extension cable for C101, C101NMO, K400C, K400CNMO, K412C, and K412CNMO
  - RG316 Teflon® coax terminating in BNC-male



- C101-3/8C**
- Replacement cable assembly for K400-3/8C mobile antenna mount.
  - 6.5' RG316 Teflon® coax (RFU645 not included)



- C110SMA**
- 10' extension cable for C101, C101SNMO, K400S, K400SNMO, K412S, and K412SNMO
  - RG316 Teflon® Coax terminating in SMA Male



- C101-3/8C-KIT**
- Upgrades any K400 mount to a K400-3/8C. Includes 3/8-24 hardware & C101-3/8C cable assembly



- C213SMA**
- Fits all Diamond Antenna K-Series mounts (except K600M)
  - 13.5' RG316 Teflon® 1/8" diameter coax
  - SO239 base w/ SMA Male
  - Low-loss PL259 adapter included



- C104SMA**
- 4' extension cable for existing cables with PL259
  - UHF Female to SMA Male



- C213SNMO**
- Fits all Diamond Antenna mounts (except K600M, K540 and K550)
  - 13.5' RG316 Teflon® 1/8" diameter coax
  - NMO base
  - Low-loss PL259 adapter included



- C105SMA**
- 5' extension cable for C101
  - RG58/U cable terminating in right angle SMA Male.



- C110**
- Use the C110 to extend cable to 16.5' for most front radio installations.
  - 10' extension cable for C101, C101NMO, K400C, K400CNMO, K400-3/8C, K412C, and K412CNMO.
  - RG8X/Mini-8 coax with mini UHF connectors.

### Adapters



**BNCJ-SMAP:** For SMA equipped handhelds to use BNC antennas. Black, low profile.



**BNCJ-SMAJ:** For BNC equipped handhelds to use SMA antennas. Black, low profile.



**RFU645:** Mini-UHF male to PL259. Used in Diamond's C-Series mounts: K400C, K400-3/8C, K400CNMO, K412C, and K412CNMO.



**RSA3474:** SMA female to PL259. Used in Diamond's S-Series mounts: K400S, K400SNMO, K412S, K412SNMO, K600S, K515S, and K515SNMO.



## Duplexers & Triplexers

Highest quality duplexers and triplexers for splitting HF/VHF/UHF signals. Quality aluminum case construction. Black finish. Duplexers and Triplexers may be used for combining two/three transceivers to one coax feed line. Available models in both direct connection and extension cables for all mobile and base station installations.



Model	Port	Frequency MHz	Power Rating (ICAS)		Insertion Loss dB	Isolation dB	Mix Connection	Port Connections
MX37	LPF	1.6 470	100	100	.25	45	N-Jack (F)	PL 259 / 12" 5D cable
	HPF	900-1300	50	50	.45	45		N-Male / 12" 5D cable
MX214D	LPF	140-250	150	400	.3	45	SO-239	PL-259 / No cable
	HPF	200-225	100	250	.4	45		
MX62M	LPF	1.6 56	200	600	.2	50	SO-239	PL 259 / 12" 5D cable
	HPF	76 470*	200	600	.3	50		PL 259 / 12" 5D cable
MX72D	LPF	1.6 30	400	1 KW	.1	60	SO-239	PL 259 / No cable
		140 150	150	400	.1	60		
	HPF	400 460	100	250	.2	60		PL 259 / No cable
MX72A		Same specifications as MX72N					N-Jack (F)	PL 259 / 12" 5D cable
MX72H		Same specifications as MX72N					SO-239	PL 259 / 12" 5D cable
MX72N	LPF	1.6 30	400	1 KW	.1	60	SO-239	PL 259 / 12" 5D cable
		140 150	150	400	.1	60		
	HPF	400 460	100	250	.1	60		N Male / 12" 5D cable
MX324	LPF	1.5 150	400	800	.3	40-50	SO-239	PL 259 / 12" 5D cable
	BPF	220 225	300	600	.4	40-50	SO-239	PL 259 / 12" 5D cable
	HPF	400 550	250	500	.4	40-50	SO-239	PL 259 / 12" 5D cable
MX610	LPF	1.3-30	200	300	.2	45	SO-239	PL 259 / 12" 5D cable
	HPF	49-470	200	600	.25	45	SO-239	PL 259 / 12" 5D cable
MX2000	LPF	1.6 60	400	800	.15	60	SO-239	PL 259 / 12" 5D cable
	BPF	110 170	400	800	.2	60		PL 259 / 12" 5D cable
	HPF	300 950	250	500	.25	60		PL 259 / 12" 5D cable
MX2000N	LPF	1.6 60	400	800	.15	60	SO-239	PL 259 / 12" 5D cable
	BPF	110 170	400	800	.2	60		PL 259 / 12" 5D cable
	HPF	300 950	250	500	.25	60		N-Male / 12" 5D cable
MX3000	LPF	1.6 160	400	800	.15	55	N Jack (F)	PL 259 / 12" 5D cable
	BPF	350 500	200	400	.25	55		PL 259 / 12" 5D cable
	HPF	850 1300	100	200	.3	55		N Male / 12" 5D cable
MX3000N	LPF	1.6 160	400	800	.2	55	N Jack (F)	PL 259 / 12" 5D cable
	BPF	350 500	200	400	.3	55		N Male / 12" 5D cable
	HPF	850 1300	100	200	.4	55		N Male / 12" 5D cable

NOTES: VSWR: 1.2:1 (nominal) Impedance: 50 ohm \*76-120 MHz Receive only

## SX SERIES

### Power Meters

Diamond Antenna models **SX100** through **SX1100** meters measure forward and reflected power and VSWR. Compact size makes meter useful for testing both base and mobile installations. Illuminated meter, switchable r.m.s. or peak power. SX600 and SX1100 have two directional couplers with switch and LED indicators for in-line connection of two transceivers. 12VDC @ 50mA is required for illuminated display. 6"W x 2"H x 4"D, 2 lbs.



**SX-100**



**SX-200**



**SX-400**



**SX-600**



**SX-1100**

### SWR / Power Meters

The **SX20C**, **SX40C** and **SX240C** are compact SWR-power meters, featuring cross needle design for measuring SWR and output power simultaneously.



**SX20C/SX40C**

Compact size makes them very useful for testing mobile as well as base station installation. The SX240C also features a 3KW Power Range for HF use.



**SX240C**

Model	Freq. MHz	Power Range	Min Power SWR Test	Conn.	Notes
SX-100	1.6-60	30/300/3KW	20W	SO-239	
SX-200	1.8-200	5/20/200	4W	SO-239	
SX-400	140-525	5/20/200	4W	SO-239	
SX-600	1.8-160/140-525	5/20/200	4W	SO-239	
SX-1100	1.8-160/430-450/1240-1300	5/20/200	4W	HF-VHF: SO-239	UHF: Type-N Connectors
SX20C	3.5-30/50-54/130-150	30/300	5W	SO-239	
SX40C	144-470	30/300	3W	SO-239	220 MHz uses a correction factor.
SX240C	1.8-54/140-470	30/300/3KW	10W	SO-239	220 MHz uses a correction factor. 3KW=HF only.

## GZV SERIES

### Switching Mode DC Power Supplies



- Size: 8.25" x 13" x 4.5"
- Weight: 9 lbs.
- Voltage Control Knob has center detent at 13.5 VDC
- Over Temperature Protection
- Meter Selector allows monitoring of voltage & current

- Built-in 8Ω, .5W speaker
- Access to front panel DC terminals and cigarette lighter jack; standard 40A terminals on rear panel
- Circuitry yields high RFI protection from external sources
- AC line filter for EMI protection
- Standard 3-wire heavy duty line cord
- Power Indicator & Overload Indicator
- Accepts 120 VAC +/- 20% 50-60 Hz\*
- Ripple & Noise less than 8 mV r.m.s.
- 1 Year Limited Warranty

#### GZV4000

- 40 Amp Continuous Rating, 100% Duty Cycle
- Variable Voltage Control 5-15 VDC
- Overload & short-circuit protection with Voltage Foldback at approximately 42 Amp
- Available in 220-240 VAC

#### GZV6000

- 60 Amp Continuous Rating, 100% Duty Cycle
- Variable Voltage Control 1-15 VDC
- Overload & short-circuit protection with Voltage Foldback at approximately 62 Amp
- 100-240 VAC

## SP SERIES



**SP1000**

### SP1000 / SP1000W

Frequency: DC-1000 MHz  
 Power: 400w PEP  
 Imped: 50Ω  
 Conn: SO-239 - SO-239  
 UHF Male - UHF Female

Model SP1000W is waterproof.  
 Connector: SO239 to PL259.

## Lightning Surge Protectors

### SP3000 / SP3000P / SP3000W

Frequency: DC-3000 MHz  
 Power: 200w PEP  
 Imped: 50Ω  
 Conn: N Female - N Female

Model SP3000W is waterproof.  
 Model SP3000P has N Male to N Female



**SP3000P**



**SP3000**



**SP3000W**

## MGC SERIES

### Window/Door Feedthru Assembly



**MGC50**

Frequency: DC to 1500MHz  
 Max Power: HF to 50MHz: 150w (SSB), 50w(FM/CW),  
 144MHz: 40w (FM) , 440MHz: 30w (FM),  
 1200 MHz: 10w (FM)  
 Length: 19.7" (between connectors)  
 Weight: 3.6 Oz  
 Connector: UHF Female to UHF Female  
 VSWR: HF up to 500MHz: Less than 1.2,  
 500 to 1000MHz : Less than 1.3,  
 Up to 1000MHz: Less than 2.0,  
 1200MHz: Less than 1.7.  
 Impedance: 50 ohms  
 Ins. Loss: 144MHz: Less than 0.3dB  
 440MHz: Less than 0.6dB  
 1200MHz: Less than 1.6dB

## DL SERIES

### Compact Dummy Loads

#### DL30A

Frequency: DC-500 MHz  
 Power: 15w average  
 100w peak  
 (intermittant)  
 Conn: PL-259/UHF Male



**DL30A**

#### DL30N

Frequency: DC-1500 MHz  
 Power: 15w average  
 100w peak  
 (intermittant)  
 Conn: Type-N Male



**DL30N**

## CX SERIES

### Heavy Duty Wideband Coax Switches

#### CX210A

Frequency: DC-1000 MHz  
 Power: 1.5 KW  
 Connector: SO-239  
 UHF Female

#### CX210N

Frequency: DC-1500 MHz  
 Power: 1.5 KW  
 Connector: Type N  
 N Female

#### CX310A

Frequency: DC-800 MHz  
 Power: 1.5 KW,  
 DC-30 MHz  
 1 KW,  
 30-150 MHz  
 500w  
 150-800 MHz  
 Connector: SO-239  
 UHF Female



**CX310A**



**CX210A  
CX210N**

# DIAMOND ANTENNA

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[www.diamondantenna.net](http://www.diamondantenna.net)



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