Life is a JOURNEY. Enjoy the ride!
This catalog represents the absolute latest, and most diverse Multi-band Antennas available to the modern Amateur Radio Operator. We’re confident you will find our antennas and accessories will enable you to enjoy Amateur Radio to its fullest.

COMET developed the Super Linear Converter (SLC) to increase the actual gain of dual/tri-band antennas.

1) A completely pre-formed phasing coil and phosphorous copper element eliminates additional components, and gain loss. (Photo A)

2) COMET sectional antennas use threaded ABS (transparent to RF) connecting joints for the finest radiation pattern and easiest assembly. (Photo B, C)

3) The SLC is electrically very efficient, providing a low angle of radiation directly to the horizon, for maximum performance.

**LOW POWER FM BROADCAST ANTENNAS**

- **GP-95**
  - Gain and Wave: 146MHz 6.0dBi, 446MHz 8.6dBi, 1200MHz 12.8dBi
  - Band-width: 4MHz
  - Max Power: 1200W
  - Length: 8’
  - Weight: 2 lbs. 10 ozs.
  - Connector: N-female

- **GP-98**
  - Gain and Wave: 146MHz 6.5dBi, 446MHz 9.0dBi, 1200MHz 13.5dBi
  - Band-width: 4MHz
  - Max Power: 150W
  - Length: 7’ 11”
  - Weight: 3 lbs. 1 oz.
  - Connector: SO-239

- **GP-15**
  - Gain and Wave: 52MHz 3.0dBi, 146MHz 6.2dBi, 446MHz 8.6dBi
  - Band-width: 4MHz
  - Max Power: 150W
  - Length: 7’
  - Weight: 3 lbs. 1 oz.
  - Connector: SO-239

- **CX-333**
  - Gain and Wave: 146MHz 6.5dBi, 446MHz 9.0dBi, 1200MHz 13.5dBi
  - Band-width: 4MHz
  - Max Power: 150W
  - Length: 7’ 11”
  - Weight: 3 lbs. 8 ozs.
  - Connector: SO-239

**TRI-BAND BASE AND REPEATER ANTENNAS**

- **GP-15**
  - Gain and Wave: 52MHz 3.0dBi, 146MHz 6.2dBi, 446MHz 8.6dBi
  - Band-width: 4MHz
  - Max Power: 150W
  - Length: 7’
  - Weight: 3 lbs. 1 oz.
  - Connector: SO-239
  - Construction: Heavy-duty fiberglass, 2 sections

- **CX-333**
  - Gain and Wave: 146MHz 6.5dBi, 446MHz 9.0dBi, 1200MHz 13.5dBi
  - Band-width: 4MHz
  - Max Power: 150W
  - Length: 7’ 11”
  - Weight: 3 lbs. 8 ozs.
  - Connector: SO-239
  - Construction: Heavy-duty fiberglass, 2 sections

- **GP-98**
  - Gain and Wave: 146MHz 6.5dBi, 446MHz 9.0dBi, 1200MHz 13.5dBi
  - Band-width: 4MHz
  - Max Power: 150W
  - Length: 7’
  - Weight: 3 lbs. 1 oz.
  - Connector: N-Type
  - Construction: One-piece white fiberglass

- **GP-95**
  - Gain and Wave: 146MHz 6.0dBi, 446MHz 8.6dBi, 1200MHz 12.8dBi
  - Band-width: 4MHz
  - Max Power: 100W
  - Length: 8’
  - Weight: 2 lbs. 10 ozs.
  - Connector: N-female
  - Construction: One-piece white fiberglass

144MHz 220MHz 446MHz 52MHz

Elevation Pattern GP-15

CX-333 Elevation Pattern
DUAL-BAND BASE AND REPEATER ANTENNAS

**GP-6**
DualBand 146/446MHz
Gain & Wave:
- 146MHz 6.5dBi ½ wave x 2
- 446MHz 9.0dBi ½ wave x 5
VSWR: 1.5:1 or less
Max Power: 200 watts
Length: 10' 2"
Weight: 3 lbs. 8 oz.
Connector: SO-239
Construction: Heavy-duty fiberglass, 2 sections

**Elevation Pattern GP-6**

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**GP-3**
DualBand 146/446MHz
Gain:
- 146MHz 4.5dBi
- 446MHz 7.2dBi
VSWR: 1.5:1 or less
Max Power: 200 watts
Length: 5' 11"
Weight: 2 lbs. 12 oz.
Mounting Mast Diameter: 1½-2¼"
Connector: SO-239
Construction: One-piece white fiberglass

**Elevation Pattern GP-3**

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**GP-9**
DualBand 146/446MHz
Gain & Wave:
- 146MHz 8.5dBi ½ wave x 3
- 446MHz 11.9dBi ½ wave x 8
VSWR: 1.5:1 or less
Max Power: 200 watts
Length: 16' 9"
Weight: 5 lbs. 11 oz.
Mounting to Mast Size: 1¼-2 ½"
Connector: SO-239 or Female N-type
Construction: Heavy-duty fiberglass, 3 sections

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DISCONE ANTENNA

**DS-150S**
Extremely wideband Scanner/Receive antenna.
Includes 65 feet of RG-58A/U coax with PL-259 connectors installed.
RX: 25-1300MHz
TX: 6M / 2M / 440 / 900 / 1200MHz
Length: 4' 8"
Max Power: 100 watts
Weight: 3lbs. 3oz.
(without coax)
Connector: SO-239

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**GP-1**
DualBand 146/446MHz
Gain and Wave:
- 146MHz 3.0dBi ½ wave x 2
- 444MHz 6.0dBi ½ wave x 2
VSWR: 1.5:1 or less
Max Power: 200W
Length: 4' 2"
Weight: 2 lbs
Mounting Mast Diameter: 1½" - 2½"
Connector: SO-239
Construction: One-piece white fiberglass

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**GP-3 being used on a recent Mt. Cho Oyu/ Mt. Everest Expedition**

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**COMET’S best selling 2M/70cm Fixed-Station Antenna.**

Featuring the COMET exclusive SLC System for maximum gain, and stable resonant frequencies. Wide band, and like all COMET Antennas, pre-tuned. Heavy-duty fiberglass and a compression washer within the ABS connecting joint prevents moisture/pollution contamination. Simply use the included stainless steel mounting brackets and your mast, and you’re ready to experience incredible COMET DualBand performance!

**GP-9 (with SO-239 Conn)**
DualBand 146/446MHz
Gain & Wave:
- 146MHz 8.5dBi ½ wave x 3
- 446MHz 11.9dBi ½ wave x 8
VSWR: 1.5:1 or less
Max Power: 200 watts
Length: 16' 9"
Weight: 5 lbs. 11 oz.
Mounting to Mast Size: 1¼-2 ½"
Connector: SO-239 or Female N-type
Construction: Heavy-duty fiberglass, 3 sections

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DUAL-BAND MOBILE ANTENNAS

CSB-790A
Dual-band 146/446 MHz
Gain & Wave:
146 MHz: 5.1dBi
446 MHz: 7.7dBi
VSWR: 1.5:1 or less
Max Power: 150W
Length: 62"
Connector: Gold Plated PL-259

CSB-770A
Dual-band 146/446 MHz
Gain & Wave:
146 MHz: 4.4dBi
446 MHz: 6.9dBi
VSWR: 1.5:1 or less
Max Power: 150W
Length: 42"
Connector: Gold Plated PL-259

CSB-750A
Dual-band 146/446 MHz
Gain & Wave:
146 MHz: 3.6dBi
446 MHz: 6.1dBi
VSWR: 1.5:1 or less
Max Power: 150W
Length: 42"
Connector: Gold Plated PL-259

SS-460SB
SS-460SBNMO
Dual-band 146/446 MHz spring antenna
Gain & Wave:
146 MHz: 1.5dBi
446 MHz: 8.4dBi
VSWR: 1.5:1 or less
Max Power: 60W
Length: 18"
Connector: Gold-plated PL-259 or NMO

SS-680SB
SS-680SBNMO
Dual-band 146/446 MHz spring antenna
Gain & Wave:
146 MHz: 2.15dBi
446 MHz: 5.0dBi
VSWR: 1.5:1 or less
Max Power: 80W
Length: 27"
Connector: Gold-plated PL-259 or NMO

M-24M (w/PL-259)
M-24B (w/BNC)
M-24S (w/SMA)
*M-24SJ (w/SMA-female)
Fits directly to HTs using an SMA-male connector
146/446 MHz DualBand Mag-Mount Antenna
Gain & Wave:
146 MHz: 1.7dBi 1/2 wave
446 MHz: 4.1dBi 1/4 wave + 3/8 wave
VSWR: 1.5:1 or less
Max Power: 80W
Length: 19.5"
Coax: RG-58A/U, 12'

*Coax attaches directly to HT’s with an SMA-male connector

Need a durable antenna to resist damage from brushes with tree branches, garage doors, etc.? The SS Series antennas were designed with you in mind! A spring in the base and spring steel element allows the antenna to flex rather than break for increased impact survival.

COMET SUPER BEAM
COMET’S NEWEST MOBILE ANTENNAS!
HEAVY-DUTY, BROAD-BAND, HIGH-POWER!

CSB-750A
Dual-band 146/446 MHz
Gain & Wave:
146 MHz: 3.6dBi
446 MHz: 6.1dBi
VSWR: 1.5:1 or less
Max Power: 150W
Length: 42"
Connector: Gold Plated PL-259

SBB-7 / SBB-7NMO
DualBand 146/446 MHz
Gain & Wave:
146 MHz: 4.5dBi 1/2 wave
446 MHz: 5.0dBi 1/2 wave x 2
VSWR: 1.5:1 or less
Max Power: 120W FM
Length: 38"
Connector: Gold-Plated PL-259 or NMO Style

SS-580SB
SS-580SBNMO
Dual-band 146/446 MHz spring antenna
Gain & Wave:
146 MHz: 3.6dBi
446 MHz: 6.1dBi
VSWR: 1.5:1 or less
Max Power: 120W FM
Length: 42"
Connector: Gold Plated PL-259 or NMO

SBB-5 / SBB-5NMO
DualBand 146/446 MHz
Gain & Wave:
146 MHz: 3.6dBi
446 MHz: 6.1dBi
VSWR: 1.5:1 or less
Max Power: 120W FM
Length: 38"
Connector: Gold-Plated PL-259 or NMO Style

SBB-1 / SBB-1NMO
Flexible DualBand 146/446 MHz
Gain & Wave:
146 MHz: 1.5dBi 1/2 wave
446 MHz: 2.15dBi 1/2 wave x 3
VSWR: 1.5:1 or less
Max Power: 60W
Length: 16"
Connector: Gold-Plated PL-259 or NMO style

CA-2x4SR
CA-2x4SRNMO
Wideband TX/RX antenna
140-160 MHz
345-465 MHz
Gain & Wave:
146 MHz: 3.8dBi 1/2 wave
446 MHz: 6.2dBi 1/2 wave x 3
VSWR: 1.5:1 or less
Max Power: 150W
Length: 40"
Connector: PL-259 or NMO Style

High gain and wide TX range for use across the ham bands and frequencies out of the ham bands. Commonly used to assist Search and Rescue Teams communicating on various VHF and UHF frequencies.
**DUAL-BAND HT ANTENNAS**

- **B-10 / B-10NMO**
  - DualBand 146/446MHz
  - Gain & Wave: 146MHz –dBi ¼ wave
  - 446MHz 5.5dBi ¾ wave x 2
  - VSWR: 1.5:1 or less
  - Max Power: 100 watts
  - Length: 17"
  - Connector: PL-259 or NMO Style

- **SMA-24**
  - 146/446MHz HT Antenna
  - Super flexible and lightweight
  - Gain & Wave: 146MHz 2.15dBi ¼ wave
  - 446MHz 3.5dBi ¾ wave
  - Max Power: 20 watts
  - Length: 17"
  - Connector: BNC

- **SMA-503**
  - 146/446MHz HT Antenna
  - Gain & Wave: 146MHz 3.0dBi ½ wave
  - 446MHz 5.5dBi ¾ wave
  - Max Power: 350/250W
  - Length: 38"
  - Connector: PL-259

- **SMA-503J**
  - 146/446MHz HT Antenna
  - Gain & Wave: 146MHz 1.5dBi ½ wave
  - 446MHz 3.5dBi ¾ wave
  - Max Power: 10 watts
  - Length: 8.5"
  - Connector: SMA-female

- **MH-209/MH-209SMA**
  - 146/446MHz HT Antenna
  - Gain & Wave: 146MHz 2.15dBi ¼ wave
  - 446MHz 3.5dBi ¾ wave
  - Max Power: 20 watts
  - Length: 17"
  - Connector: BNC

- **HP-32FHN**
  - Heavy Duty/High Power
  - DualBand 146/446MHz
  - Gain & Wave: 146MHz 3.0dBi ½ wave
  - 446MHz 5.5dBi ¾ wave x 2
  - Max Power: 350/250W
  - Length: 38"
  - Connector: PL-259 or NMO Style

- **BNC-24**
  - 146/446MHz HT Antenna
  - Super flexible and lightweight
  - Gain & Wave: 146MHz 2.15dBi ¼ wave
  - 446MHz 3.5dBi ¾ wave
  - Max Power: 20 watts
  - Length: 17"
  - Connector: SMA

- **SMA-501**
  - 146/446MHz HT Antenna
  - Gain & Wave: 146MHz 0dBi ½ wave
  - 446MHz 1dBi ¾ wave
  - VSWR: 2.1 or less
  - Max Power: 5 watts
  - Length: 3"
  - Connector: SMA-female

- **SMA-501J**
  - 146/446MHz HT Antenna
  - Gain & Wave: 146MHz 0dBi ½ wave
  - 446MHz 1dBi ¾ wave
  - VSWR: 2.1 or less
  - Max Power: 5 watts
  - Length: 3"
  - Connector: SMA-female

- **SMA-24J**
  - 146/446MHz HT Antenna
  - Gain & Wave: 146MHz 2.15dBi ¼ wave
  - 446MHz 3.5dBi ¾ wave
  - Max Power: 20 watts
  - Length: 17"
  - Connector: SMA-female

- **SMA-209J**
  - 146/446MHz HT Antenna
  - Gain & Wave: 146MHz 0dBi ¼ wave
  - 446MHz 1dBi ¾ wave
  - VSWR: 2.1 or less
  - Max Power: 5 watts
  - Length: 3"
  - Connector: SMA-female

**DUAL-BAND ANTENNAS FOR THE CHINESE HTs**

- **SMA-24**
  - Gain & Wave: 146MHz 2.15dBi ¼ wave
  - 446MHz 3.5dBi ¾ wave
  - Max Power: 20 watts
  - Length: 17"
  - Connector: BNC

- **SMA-24J**
  - Gain & Wave: 146MHz 2.15dBi ¼ wave
  - 446MHz 3.5dBi ¾ wave
  - Max Power: 20 watts
  - Length: 17"
  - Connector: SMA-female

- **SMA-209J**
  - Gain & Wave: 146MHz 0dBi ¼ wave
  - 446MHz 1dBi ¾ wave
  - VSWR: 2.1 or less
  - Max Power: 5 watts
  - Length: 3"
  - Connector: SMA-female

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Heavy-duty antenna recommended by the charity driven MARC (Motorcycling Amateur Radio Club) co-founder Ray Davis (KD6FHN) for motorcycles and OTR trucks.

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Mega-Baby 146/446MHz
Compact Design, surprising performance!

Gain & Wave: 146MHz 2.15dBi ¼ wave
446MHz 3.5dBi ¾ wave
Max Power: 20 watts
Length: 17"
Connector: SMA-female
### TRI-BAND HT ANTENNAS

**SBB-97**
- Tri-Band Mobile Antenna
- 146/446/1200MHz
- Gain & Wave:
  - 146MHz: 1.5dBi 1/4 wave
  - 446MHz: 1.5dBi 1/4 wave
  - 1200MHz: 1.5dBi 3/8 wave x 3
- VSWR: 1.5:1 or less
- Gain & Wave:
  - 146MHz: 1.0dBi 1/4 wave
  - 446MHz: 1.0dBi 1/4 wave
  - 1200MHz: 1.0dBi 3/8 wave x 3
- Max Power: 60W
- Length: 39”
- Connector: Male SMA

**SBB-15**
- Tri-Band Mobile Antenna
- 50/146/446MHz
- Gain & Wave:
  - 50MHz: 2.15dBi 1/4 wave
  - 146MHz: 4.5dBi 1/4 wave center-loaded
  - 446MHz: 3.5dBi 1/4 wave
- VSWR: 1.5:1 or less
- Gain & Wave:
  - 50MHz: 2.0dBi 1/4 wave
  - 146MHz: 4.0dBi 1/4 wave center-loaded
  - 446MHz: 3.5dBi 1/4 wave
- Max Power: 120 watts FM
- Length: 61”
- Connector: PL-259

### TRI-BAND MOBILE ANTENNAS

**HT-224**
- Tri-Band Mobile Antenna
- 146/220/446MHz
- Gain & Wave:
  - 146MHz: 1.3dBi 1/4 wave
  - 220MHz: 1.4dBi 1/2 wave
  - 446MHz: 1.8dBi 5/8 wave
- Max Power: 10 watts
- Length: 11”
- Connector: SMA

**SMA-703**
- Tri-Band Mobile Antenna
- 146/446/1200MHz
- Gain & Wave:
  - 146MHz: 3.4dBi 1/4 wave
  - 446MHz: 0.0dBi 1/4 wave
  - 1200MHz: 3.4dBi 3/8 wave x 5
- Max Power: 10 watts
- Length: 6.5”
- Connector: SMA

### DAIWA COAX SWITCHES

- Professionally engineered Multi-cavity Heavy-duty diecast metal
- Patented feature: Unused circuits are automatically grounded

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Frequency Range (up to)</th>
<th>CS-201a</th>
<th>CS-201GII</th>
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<tr>
<td>CS-201a</td>
<td>600MHz</td>
<td>2.5 kW PEP</td>
<td>1.5 kW CW up to 30 MHz</td>
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<tr>
<td>CS-201GII</td>
<td>2 GHz</td>
<td>1 kW CW</td>
<td>1 kW CW up to 1 GHz</td>
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<td></td>
<td></td>
<td>250 W CW</td>
<td>150 W CW up to 2 GHz</td>
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<td>1 kW CW</td>
<td>50 dB 1 GHz</td>
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<tr>
<td>VSWR</td>
<td>below 0.12</td>
<td>below 1:1.3 at 1.3 GHz</td>
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<tr>
<td>Insertion Loss</td>
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<td>less than 0.2 dB</td>
<td>less than 1.2 dB at 1.2 GHz</td>
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<tr>
<td>Isolation</td>
<td>60 dB 600 MHz</td>
<td>50 dB 1 MHz</td>
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<td>Output Port</td>
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<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>
DAIWA POWER METERS

**DAIWA POWER METERS**

**CN-800 Professional Series**
- Professional series bench meter
- Large, easy to read cross needle meter display
- Mirrored scale in .5W increments eliminates parallax errors
- LED lighted, DC jack on back panel
- Rubber edge guards included

**DAIWA SWITCHING POWER SUPPLY**

**DAIWA SWITCHING POWER SUPPLY**

**SS-330W**
- 30 Amp Switching Power Supply
- 30 amp continuous, 33 amp peak
- Input Voltage: 100-117V (220-240V user capable modification)
- Output Voltage Adjustable: 5-15V
- Dual Meters, Voltage and Amp

**SS-505**
- 50 Amp Switching Power Supply
- 50 amp continuous, 55 amp peak
- 50 amps available at all DC output voltages
- Input Voltage: 100-117V (220-240V user capable modification)
- Output Voltage Adjustable: 5-15V

**CMX-2300**
- Twin SWR Cross-Needle Meters
- High-power HF-VHF meter and low power VHF-UHF meter combined in one case, lighted

**CAA-500**
- Frequency range: 1.8-500MHz
- Functions: SWR and Impedance

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- 30 Amp Switching Power Supply
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- Input Voltage: 100-117V (220-240V user capable modification)
- Output Voltage Adjustable: 5-15V
- Dual Meters, Voltage and Amp

**SS-505**
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- 50 amp continuous, 55 amp peak
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- Input Voltage: 100-117V (220-240V user capable modification)
- Output Voltage Adjustable: 5-15V

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**CAA-500**
- Frequency range: 1.8-500MHz
- Functions: SWR and Impedance

**DAIWA SWEEPING POWER SUPPLY**
UHV-6
The UHV-6 is popular for a number of reasons:
• It is very easy to mount, usually to an existing SO-239 type mount (Heavy Duty)
• It is small, compact, economical, and includes a fold-over hinge.
• The user defines the configuration. Without any coils added, it’s a 6/2m/70cm tribander. You add the HF coils (40/15/10m are included) that you want to operate. It is designed to hold up to three of the smaller HF coils. Add the 80M coil by itself to keep the weight below its designed capacity. When stationary, all the coils can be added
• Typical 2:1 bandwidth
  40M 17kHz  20M 25kHz
  15M 125kHz  10M 750kHz
  6M  3MHz
UHV-6
HF/VHF/UHF Mobile Antenna
Gain & Wave:
50 MHz  0dBi  ¼ wave
146MHz  2.15dBi  ½ wave
446MHz  5.5dBi  ⅜ wave x 2
HF bands are ⅜ waves, no gain
VSWR: >50 MHz 1.5:1 or less
<50 MHz  2:1 or less
Max Power: >50MHz 200W SSB/100W FM
<50MHz  120 W SSB
Weight: 14-19 ozs
Length: 48” (min) 76” (max)
Connector: PL-259

UHV-4
QuadBand Mobile Antenna, Tunable on 10M & 6M!
Gain & Wave:
10/6M: ¾ wave 0 dBi
146MHz: ½ wave 2.15dBi
446MHz: ⅜ wave x 2
5.5dBi
VSWR: 1.5:1 or less
Max Power:
10M  120W SSB
6M  200W/100W FM
2M -70cm:  100W FM
Length: 54” (approx)
Weight: 1’ 6”
Connector: PL-259

SBB-25 / SBB-25NMO
144-145MHz
Gain & Wave:
4.1dBi  ⅛ wave
VSWR: 1.5:1 or less
Max Power: 200W SSB
Length: 57”
Connector: Gold-Plated PL-259 or NMO Style

SBB-123
1260-1300MHz
Gain & Wave:
7.2dBi  ⅛ wave x 3
VSWR: 1.5:1 or less
Max Power: 50 watts
Length: 26”
Connector: N-type

TA-3
902-928MHz
Gain & Wave:
6.5dBi  ⅛ wave x 3
VSWR: 1.5:1 or less
Max Power: 50W
Length: 24”
Connector: N-type

R-2000
902-928MHz
Gain & Wave:
5.1dBi  ⅛ wave x 2
VSWR: 1.5:1 or less
Max Power: 50 watts
Length: 19”
Connector: N-type

BNC-W100RX (BNC Conn)
SMA-W100RX (SMA Conn)
Super wideband scanner antenna
Double pivoting telescoping element
RX Range: 25-1300MHz
Length, collapsed: 8.25”
Length, extended: 40”
SINGLE-BAND
BASE AND REPEATER ANTENNAS

CYA-1216E
16 Element Yagi Beam 1240-1300MHz
Gain: 16.6dBi
VSWR: 1.5:1 or less
Max Power: 100 watts
Polarization: Vertical or Horizontal
Length: 4' 5"
Weight: 2 lbs. 11 ozs.
Mounting Mast Diameter: 1¼ - 2 ½"^2
Connector: N-Type
Construction: Aluminum, pre-assembled

CA-52HB4
4 Element 6M Beam Wide Band 50-54MHz
Gain: 10.4dBi
F/B: At least 40dB down
VSWR: 1.5:1 or less
Boom Length: 10' 6"
Max Power: 400W SSB / 200WFM
Mounting Mast Diameter: 1¼ - 2 ½"^2
Weight: 4 lbs. 10 ozs.
Turning Radius: 7' 4"
Max Wind Speed: 75 MPH
Connector: SO-239
Construction: Aluminum w/stainless steel hardware

CA-712EF
Mono Band 440-450MHz
Base/Repeater Antenna
Gain & Wave: 9dBi
½ wave x 12
VSWR: 1.5:1 or less
Max Power: 200 watts
Length: 10' 5"
Weight: 3 lbs.
Mounting Mast Dia: 1¼ - 2 ½"^2
Connector: N-Type
Construction: Heavy-duty fiberglass, 2 sections

CA-SUPER22
Mono Band 220MHz antenna
Gain and wave: 6.6dBi
½ wave x 2
VSWR: 1.3:1 or less
Max Power: 150 watts
Length: 8'
Weight: 2 lbs. 13 ozs.
Mounting Mast Diameter: 1¼ - 2 ½"^2
Connector: SO-239
Construction: One piece fiberglass

CA-F22GF/CA-F22GFN
VHF Base Antenna w/Cutting Chart.
User tunable for operation between 136-175MHz. After tuning, 4MHz Bandwidth.
Gain: 5.5dBi
VSWR: 1.5:1 or less
Max Power: 150 watts
Length: 8' 10" Weight: 2 lbs.
Mounting Mast Diameter: 1¼ - 2 ½"^2
Connector: CA-F22GF-SO-239
CA-F22GFN - N-Female
Construction: Two-piece fiberglass

CA-F72GF
UHF Base Antenna w/ Cutting Chart. User tunable for operation between 440-512MHz. After tuning, 10MHz Bandwidth.
Gain: 5.5dBi
VSWR: 1.5:1 or less
Max Power: 150 watts
Length: 3' 6"
Weight: 1 lb. 14 ozs.
Mounting Mast Diameter: 1¼ - 2 ½"^2
Connector: N-Type
Construction: Single-piece fiberglass
### 802.11/HSMM/Wi-Fi Antennas

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Gain &amp; Wave</th>
<th>VSWR:</th>
<th>Max Power</th>
<th>Length</th>
<th>Weight</th>
<th>Connector</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>GP-24-3</td>
<td>3 Degree Downtilt</td>
<td>9.9dBi</td>
<td>1.5:1</td>
<td>100 watts</td>
<td>3' 7&quot;</td>
<td>1 lbs. 6 ozs.</td>
<td>N-Female</td>
<td>Single piece fiberglass</td>
</tr>
<tr>
<td>GP-24S</td>
<td>Elevator Pattern</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GP-24-3R</td>
<td>Wi-Fi/Access Point Antenna</td>
<td>15.4dBi</td>
<td>1.5:1</td>
<td>50 watts</td>
<td>5' 10&quot;</td>
<td>2 lbs</td>
<td>N-male</td>
<td>Single piece fiberglass</td>
</tr>
<tr>
<td>SF-245R</td>
<td>2.4GHz Wi-Fi/Access Point Antenna</td>
<td>7.4dBi</td>
<td>1.5:1</td>
<td>50 watts</td>
<td>18&quot;</td>
<td></td>
<td>N-male</td>
<td>Fiberglass</td>
</tr>
<tr>
<td>SF-45SPPR-R</td>
<td>High gain mobile Wi-Fi antenna</td>
<td>7.4dBi, ½ wave x 5</td>
<td>1.3:1</td>
<td>less 18&quot;</td>
<td></td>
<td></td>
<td>N-male</td>
<td>Fiberglass, spring base</td>
</tr>
<tr>
<td>SF-D53NSR</td>
<td>5700-5900MHz Antenna</td>
<td>5.5dBi</td>
<td>1.5:1</td>
<td>50 watts</td>
<td>7&quot;</td>
<td></td>
<td>N-male</td>
<td>Fiberglass</td>
</tr>
</tbody>
</table>

### Duplexers

<table>
<thead>
<tr>
<th>Model</th>
<th>Band Pass</th>
<th>Ins. Loss</th>
<th>Max Power</th>
<th>Isolation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF-142</td>
<td>1.3-150MHz</td>
<td>0.2dB</td>
<td>800w PEP</td>
<td>40dB</td>
</tr>
<tr>
<td>CF-146A, 146B, 146C</td>
<td>1.3-170MHz</td>
<td>0.15dB</td>
<td>600w PEP</td>
<td>60dB</td>
</tr>
<tr>
<td>CF-416A, 416B, 416C</td>
<td>1.3-220MHz</td>
<td>0.25dB</td>
<td>500w PEP</td>
<td>60dB</td>
</tr>
</tbody>
</table>

### Connectors

- **SO-239**: Female
- **PL-259**: Male

### Accessories

- **CT-142**: Aluminum telescoping antenna/vehicle mount
- **CP-45**: Aluminum telescoping antenna/vehicle mount
- **GP-24-3**: Wi-Fi/Access Point Antenna w/3-degree downtilt
- **GP-24S**: Elevation Pattern
- **GP-24SR**: Wi-Fi/Access Point Antenna
- **GP-24-3R**: Wi-Fi/Access Point Antenna w/3-degree downtilt
- **YS-45**: Welded aluminum tripod for the CP-45 mast

### Specifications

- **CF-142**: 146/220MHz
- **Band Pass**: 1.3-150MHz
- **Ins. Loss**: 0.2dB
- **Max Power**: 800w PEP
- **Isolation**: 40dB
### Duplexers

**CF-416W**
- **Band Pass**: 1.3-170MHz, 350-540MHz, 130-400MHz, 400-1400MHz
- **Max Power**: 800W PEP, 400w PEP, 600W PEP, 200w PEP
- **Isolation**: 60 dB minimum
- **Connectors**: CF-4160N, CF-4160J

### Triplexers

**CFX-431B**
- **Band Pass**: 1.3-60MHz, 100-150MHz, 350-500MHz, 840-1400MHz
- **Max Power**: 1000W PEP, 800W PEP, 500W PEP, 200W PEP
- **Isolation**: 50 dB
- **Connectors**: CFX-4310B

**CFX-514J, CFX-514O**
- **Band Pass**: 1.3-90MHz, 130-200MHz, 380-500MHz
- **Max Power**: 800W PEP, 800W PEP, 500W PEP
- **Isolation**: 55 dB
- **Connectors**: CFX-514J, CFX-514O

**CFX-514N**
- **Band Pass**: 1.3-90MHz, 130-200MHz, 380-500MHz
- **Max Power**: 800W PEP, 800W PEP, 500W PEP
- **Isolation**: 55 dB
- **Connectors**: CFX-514N

### Connectors

- **Output**: N-Female
- **Low In**: PL-259
- **High In**: N-Male
MOBILE MOUNTS BRACKETS (COAX INCLUDED)

The universal mounts have multiple adjustments planes and are designed to slip over an edge on the vehicle that is ¼ inch thick or less including vertical passenger doors, rear SUV/van doors, truck doors, hood edges, trunk lips, etc... The trunk lip mounts are adjustable up to 17 degrees and designed for semi-flat trunk surfaces. Either the deluxe or standard coax cable assembly is included.

Deluxe: 16"/9" low loss coax cable with 18" of mini RG-174A/U type coax for easy entry thru weather seal without causing wind noise, water leaks or coax damage. Low loss 24k gold plated connectors.

Standard: 16" 9" RG-58/A/U coax. Soft rubber protects vehicle paint. The lip mounts and coax cable assemblies are available separately if needed.

*Mini coax limits max power: HF 200W - VHF 75W - UHF 50 watts

HD-5M
Deluxe heavy-duty universal RS-840 mount and coax cable combination with SO-239/PL-259 connectors. Designed to hold large multi-band antennas up to 80 inches: UHV-4, UHV-6, ATAS-120, mini screwdriver antennas, etc... 2 adjustment planes, large footprint with support tab for stability. (Check your vehicle for flush adjoining surfaces) Footprint: 3.75" x 1.1"

LD-5M
Deluxe light-duty universal LD-5M mount and coax cable combination with SO-239/PL-259 connectors. Designed to hold small/med antennas up to 40" to doors/trunks with limited space for a lip mount to attach. Small footprint completely sites on the mounting lip edge for universal use. Footprint: 1.25" x .1"

ADAPTERS/JUMPERS

<table>
<thead>
<tr>
<th>AD-15M</th>
<th>AD-10N</th>
<th>CTC-50M</th>
</tr>
</thead>
</table>
| NMO to SO-239 adapter | NMO to N-female adapter | Window feed-thru jumper 
Flexible ALPET flat-film coax jumper allows entry of coax cable through a sliding window or door. It forms to the frame allowing the door or window to close securely. Copper-clad steel center core resists metal fatigue. |

Freq Range: DC-1300MHz 
Max Power: 
HF-50MHz 100W PEP 
144MHz 60W FM 
440MHz 40W FM 
1200MHz 10W FM 
VSWR: < 500MHz 1.3:1 > 500MHz 1.5:1 
Impedance: 50 Ohm 
Insertion Loss: 
DC-500MHz < 0.5dB 
500-900MHz < 1.3dB 
900-1300MHz < 1.8dB 
Connectors: SO-239 
Length: 16" approx
MOBILE MOUNTING BRACKETS (NO COAX INCLUDED)

The below lip mounts will fit over virtually ANY lip on a vehicle that is 1/4" thick or less. Rear van and SUV doors, trunk lids, rear truck doors, hoods etc. Simply choose the mount appropriate for the size antenna you are using. They hold to the edge with set-screws which also grounds the mount to the vehicle, and have rubber coating on the base to prevent paint damage. If needed, add the desired cable assembly found at the bottom of this page.

MOBILE COAX CABLE ASSEMBLIES

Use these cable assemblies in any of the above mounting brackets, or to insert in a 5/8" hole for permanent mounting. Choose the length and type of coax that fits your needs. Please Note: Comet and Maldol specialize in "no holes to drill mounting solutions". They tune their antennas for best VSWR when mounted on a lip mount.

CR-5M
Standard Cable Assembly 16 feet 9 inches of RG-58/U coax with UHF (PL-259/SO-239) connectors

3D4M
13' length, SO-239/PL-259 connectors

3D5M
16'9" length, SO-239/PL-259 connectors

3D4N
13' length, N-female/N-male connectors

5D4N
13 feet of extremely low loss coax. Gold-plated N-type connectors. Recommended up to 2400MHz.

CK-3M
9’9” total length, SO-239/PL-259 connectors

CK-3M5
16’6” total length, SO-239/PL-259 connectors

CK-3NMO
16’6” total length, NMO/PL-259 connectors

CK-3 3/8-24
16’6” total length, 3/8-24/PL-259 Connectors

CK-5N
13’3” total length, N-female/N-male connectors (Recommended to 2.5GHz)

Deluxe cable assemblies use 24k gold plated connectors, low loss coax and 18” of mini RG-174A/U type coax for easy entry thru the weather seal to avoid wind noise, water leaks and damage to the coax. The PL-259/N-male connector barrel is removable to reduce the coax length and/or easier routing of the coax.
**HVU-8**

Eight Band base station antenna, 80/40/20/15/10/6M/70cm

Gain & Wave:
- 80-6M: 1/4 wave
- 146MHz: 1/2 wave 2.15dBi
- 446MHz: 5/8 wave x 2 5.5dBi

VSWR: 1.5:1 or less

Max Power:
- HF: 200W SSB
- 6M -70cm: 150W FM

Length: 8' 6" (approx)

Weight: 5' 7"

Connector: SO-259

The Maldol HVU-8 is a unique and ultra-compact HF, VHF and UHF antenna designed for confined or restricted space installations. The ground radial system is BUILT-IN on two collars. Each radial collar can be rotated 360 degrees to make mounting as easy as possible!

Typical 2:1 SWR Bandwidth:
- 80M: 22kHz
- 40M: 52kHz
- 20M: 52kHz
- 15M: 134kHz
- 10M: 260kHz

**CHA-250B**

Broadband HF/6M Ground-Plane Antenna

TX: 3.5MHz – 57MHz
RX: 2.0 – 90MHz

VSWR: 1.6:1 or less

Max Power: 250W SSB

Impedance: 50 Ohm

Length: 23' 5"

Weight: 7 lbs 1 oz

Conn: SO-239

Mast Req’d: 1” – 2” Diameter

Max wind speed: 67MPH

The Comet CHA-250B is a newly design broadband vertical with NO GROUND RADIALS. This antenna is EXTREMELY easy to assemble, requires no tuning or adjustments and VSWR is under 1.6:1 from 3.5-57MHz! Now including an optional guy line collar that slips over the center element to provide higher wind survival!

“One person can effortlessly raise the antenna at night when no one can spot it, and take it down before daybreak. This antenna is also a great choice for portable operations, such as quick and easy mini-DXpedition to a campground or a nice tropical island! In short, the Comet CHA-250B is simple to assemble, painless to elevate and is easy on the eyes, while at the same time getting you on 6 meters thru 80 meters without the requirement of an antenna tuner and ground radials. You'll even be able to work some DX while you're at it!" - Dan Dankert N6PEQ

**H-422**

40/20/15/10M rotatable quad-band dipole

Broadband, compact, trapped dipole installs in either a "V" or horizontal configuration.

Excellent performance even if mounted only 10-15ft above ground. During assembly the 20/15/10M bands are tuned simultaneously to the top, middle or bottom of each band while 40M tunes independently of the other three bands.

"V" Shape Length: 24 ft 5 inches
Horizontal Length: 33 ft 10 inches
Weight: 11 lbs 14 oz
Max Power: 1000W SSB / 500W FM

Wind Load: 3.01 sq feet
Connector: SO-239

Construction: Aluminum tubing, stainless steel hardware, heavy-duty mounting plate CBL-2500 2.5kW balun included

**CHV-5X**

This is the compact dipole used for HF communications installed above the set of ABC Television's "Last Man Standing" with Tim Allen. The crowded and limited space above the set required a compact multi-band dipole, and the CHV-5X was selected to solve the problem the minimal space presented.

5-Band, 1/2 wave rotatable dipole for 40/20/15/10/6 meters!

Compact, lightweight, and easily assembled in either a horizontal, "V" shape or ground-plane configuration. Each band tunes independently of the others.

If you have antenna restrictions, neighbors that tend to complain about antennas, simply want to operate without drawing attention...or you want a lightweight multi-band antenna to use in portable or emergency situations, the CHV-5X is a great choice.

Max power: 40/20/15W 150W SSB

Horizontal length: 13 ft approx

Weight: 5 lbs 14 oz approx

Connector: SO-239

Mounting mast req’d: 1”-2.5”

Impedance: 50 Ohm

Typical 1.5:1 or less SWR bandwidth:
- 40M: 22kHz
- 20M: 36kHz
- 10M: 140kHz
- 6M: 1.8MHz
Here the LD-5M mount is attached to the hinged side of the rear-gate door edge of a Nissan Cube. 2 Set screws hold it securely in place. The mini RG-174A/U type coax cable assembly enters the passenger compartment through the weather seal without causing wind noise, coax damage or wind noise.

This is the famous B-10NMO. Although it appears to be a cellular phone antenna, it's actually an excellent 2M/440MHz dualbander. For around town, this antenna can't be beat. NOTE: If you're going to drill a hole in your vehicle, use the NMO style mount. It's easy to install and waterproof. If you DO NOT want to drill a hole, there are many more UHF (PO) style mounts to choose from.

When mounting an antenna on the rear door of a van/suv/station wagon and other similar vehicle, the door opens as usual. When the door is opened, the antenna lays along the side of the passenger compartment.

EXTENDED CAB TRUCK OWNERS
The rear passenger door is a great place to mount an antenna. It's within reach, out of the way and places the antenna above the roof-line. Choose a mount from pages 12 or 13 and attach the mount either on the side or top of the door. Or, use the same mount to attach an antenna to the hood. As long as the hood is 1/4 inch thick or less, the mount will slide over the edge and tighten down with set screws.

The CP-5M is the best selling lip mount, here attached to the side door of a hatch style van door. It will hold antennas up to 70” in height. 4 set screws hold it securely and ground the mount to the door. It is true that an antenna mounted to the side of a ground plane as in the photo does not have a perfect radiation pattern. However, high gain antennas and modern repeater systems have improved greatly of the past 50 years and more than compensate for a less than perfect mobile antenna position. Being able to mount the antenna without damaging the roof, causing rust and/or leaks, and to be able to easily reach the antenna to remove it for car washes, garage entry, and to avoid theft makes lip mount antennas very convenient!