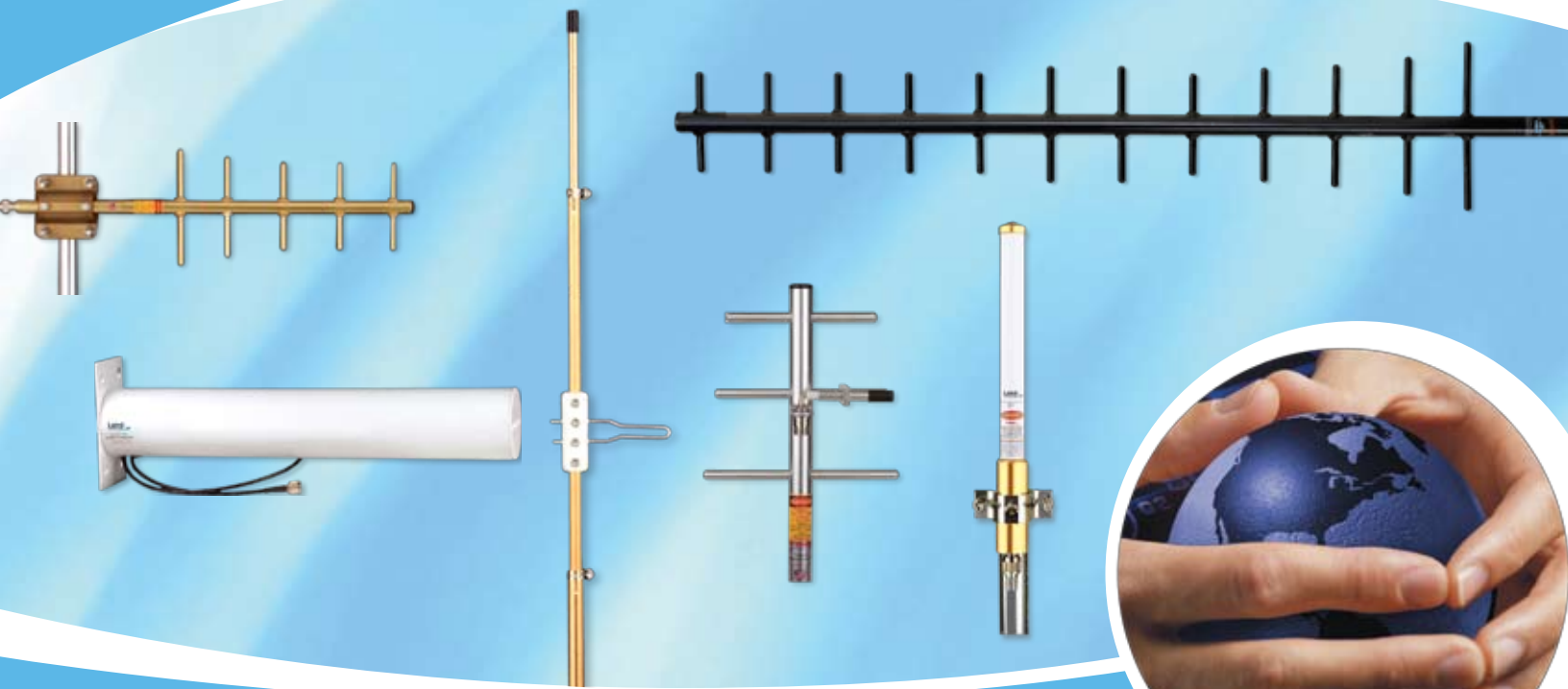




global solutions :  
local support™

Base Station  
Antennas



Laird Technologies is the world-leader in the design and supply of customized performance-critical products for wireless and other advanced electronic applications. Laird Technologies partners with its customers to help find solutions for applications in various industries such as:

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## Laird Technologies' Base Station Antennas

Laird Technologies offers an extensive array of base station and in-building wireless antennas. Responding to the ever-increasing variety of frequencies and applications, Laird Technologies offers VHF, UHF, 700 MHz, Cell/PCS dual-band and GSM/UMTS tri-band variations. Leading the industry with the internally matched, fully welded, gold anodized Yagi, all Laird Technologies base station antennas represent high performance and long-lasting value. For example, Laird Technologies omni-directional models are the antennas of choice for research bases in Antarctica.

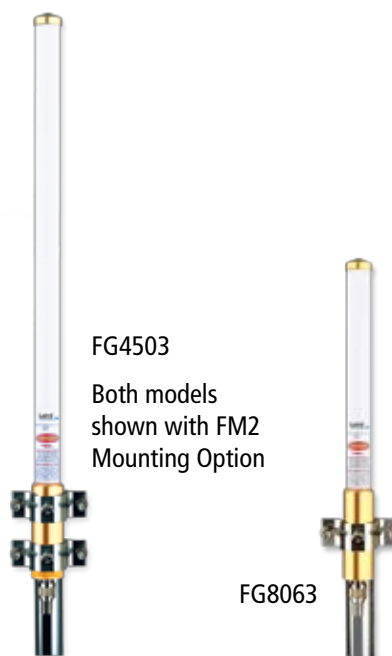


| Model             | Frequency Range | Tuned Frequency | Gain  | Length | Maximum Power |
|-------------------|-----------------|-----------------|-------|--------|---------------|
| <b>VHF Models</b> |                 |                 |       |        |               |
| FG1400            | 140-144 MHz     | 142 MHz         | Unity | 92"    | 150 watts     |
| FG1403            | 140-144 MHz     | 142 MHz         | 3 dBd | 107"   | 150 watts     |
| FG1440            | 144-148 MHz     | 146 MHz         | Unity | 92"    | 150 watts     |
| FG1443            | 144-148 MHz     | 146 MHz         | 3 dBd | 107"   | 150 watts     |
| FG1480            | 148-152 MHz     | 150 MHz         | Unity | 68"    | 200 watts     |
| FG1483            | 148-152 MHz     | 150 MHz         | 3 dBd | 107"   | 200 watts     |
| FG1520            | 152-156 MHz     | 154 MHz         | Unity | 68"    | 200 watts     |
| FG1523            | 152-156 MHz     | 154 MHz         | 3 dBd | 107"   | 200 watts     |
| FG1560            | 156-162 MHz     | 159 MHz         | Unity | 68"    | 200 watts     |
| FG1563            | 156-162 MHz     | 159 MHz         | 3 dBd | 107"   | 200 watts     |
| FG1620            | 162-168 MHz     | 165 MHz         | Unity | 68"    | 200 watts     |
| FG1623            | 162-168 MHz     | 165 MHz         | 3 dBd | 107"   | 200 watts     |
| FG1683            | 168-174 MHz     | 171 MHz         | 3 dBd | 107"   | 200 watts     |
| FG2200            | 220-225 MHz     | 222.5 MHz       | Unity | 68"    | 200 watts     |
| FG2203            | 220-225 MHz     | 222.5 MHz       | 3 dBd | 107"   | 200 watts     |

|                   |             |         |       |     |           |
|-------------------|-------------|---------|-------|-----|-----------|
| <b>UHF Models</b> |             |         |       |     |           |
| FG3603            | 360-380 MHz | 370 MHz | 3 dBd | 44" | 200 Watts |
| FG3803            | 380-406 MHz | 385 MHz | 3 dBd | 44" | 200 Watts |
| FG4060            | 406-416 MHz | 411 MHz | Unity | 26" | 200 Watts |
| FG4063            | 406-416 MHz | 411 MHz | 3 dBd | 44" | 200 Watts |
| FG4065            | 406-416 MHz | 411 MHz | 5 dBd | 76" | 200 Watts |
| FG4100            | 410-430 MHz | 420 MHz | Unity | 26" | 200 Watts |
| FG4103            | 410-420 MHz | 415 MHz | 3 dBd | 44" | 200 Watts |
| FG4203            | 420-430 MHz | 425 MHz | 3 dBd | 44" | 200 Watts |
| FG4205            | 420-430 MHz | 425 MHz | 5 dBd | 76" | 200 Watts |
| FG4300            | 430-450 MHz | 440 MHz | 3 dBd | 26" | 200 Watts |
| FG4303            | 430-440 MHz | 435 MHz | 3 dBd | 44" | 200 Watts |
| FG4305            | 430-440 MHz | 435 MHz | 5 dBd | 76" | 200 Watts |
| FG4403            | 440-450 MHz | 445 MHz | 3 dBd | 44" | 200 Watts |
| FG4405            | 440-450 MHz | 445 MHz | 5 dBd | 76" | 200 Watts |
| FG4500            | 450-470 MHz | 460 MHz | Unity | 26" | 200 Watts |
| FG4503            | 450-460 MHz | 455 MHz | 3 dBd | 44" | 200 Watts |
| FG4505            | 450-460 MHz | 455 MHz | 5 dBd | 76" | 200 Watts |
| FG4505W           | 450-470 MHz | 460 MHz | 5 dBd | 76" | 200 Watts |

### Fiberglass Omnidirectional

- Includes VHF through 2.4 GHz models
- High performance and reliable collinear J-pole design surrounded by durable high density fiberglass
- Durable gold anodized sleeve and cap will not oxidize
- Custom tuning available
- FedEx/UPS shippable on most models



FG4503

Both models shown with FM2 Mounting Option

FG8063

## Technical Data - Product Features & Information

- **VSWR:**  
<2:1 at resonance
- **Maximum Power:**  
200 watts - Most VHF and UHF and above models.
- **Impedance:**  
50 ohms, Models with DC continuity.
- **Mounting Sleeve:**  
Heavy wall, gold anodized 1 1/4" aluminum.
- **Radiator:**  
Precision copper clad elements sealed in white ultraviolet-inhibiting fiberglass radome.
- **Mounts to:**  
See optional mounting kits listed.
- **DC Grounded:**  
All models excluding FG24005, FG24008, and FG8063WPTNF.
- **Vertical Beam Width:**  

| Unity | 3 dBd | 5 dBd | 6 dBd | 7 dBd |
|-------|-------|-------|-------|-------|
| 75    | 33    | 20    | 17    | 14    |
- **Antenna Weight:**  
VHF 3 dBd & UHF 7 dBd = 8 lbs.  
All others = 6 lbs. (or less)
- **Termination:**  
Recessed type "N" female connector.
- **Wind Survival:**  
125 M.P.H.
- **Polarization:**  
Vertical Polarization.



FM1



FM2



FM3



FM3W



FMW4

| Model | Frequency Range | Tuned Frequency | Gain | Length | Maximum Power |
|-------|-----------------|-----------------|------|--------|---------------|
|-------|-----------------|-----------------|------|--------|---------------|

### UHF Models

|        |             |         |       |      |           |
|--------|-------------|---------|-------|------|-----------|
| FG4507 | 450-460 MHz | 455 MHz | 7 dBd | 107" | 200 Watts |
| FG4603 | 460-470 MHz | 465 MHz | 3 dBd | 44"  | 200 Watts |
| FG4605 | 460-470 MHz | 465 MHz | 5 dBd | 76"  | 200 Watts |
| FG4607 | 460-470 MHz | 465 MHz | 7 dBd | 107" | 200 Watts |
| FG4705 | 470-480 MHz | 475 MHz | 5 dBd | 76"  | 200 Watts |
| FG4900 | 490-512 MHz | 501 MHz | Unity | 26"  | 200 Watts |
| FG4907 | 490-500 MHz | 495 MHz | 7 dBd | 107" | 200 Watts |
| FG5003 | 500-512 MHz | 506 MHz | 3 dBd | 44"  | 200 Watts |
| FG5007 | 500-512 MHz | 506 MHz | 7 dBd | 107" | 200 Watts |

### 700 - 900 MHz Models

|             |             |           |       |         |           |
|-------------|-------------|-----------|-------|---------|-----------|
| FG7463      | 746-796 MHz | 771 MHz   | 3 dBd | 23 1/2" | 200 Watts |
| FG7466      | 746-796 MHz | 771 MHz   | 6 dBd | 61"     | 200 Watts |
| FG8060      | 806-866 MHz | 813.5 MHz | Unity | 15"     | 200 Watts |
| FG8063      | 806-866 MHz | 813.5 MHz | 3 dBd | 25"     | 200 Watts |
| FG8063WPTNF | 806-896 MHz | 851 MHz   | 3 dBd | 29"     | 200 Watts |
| FG8066      | 806-866 MHz | 813.5 MHz | 6 dBd | 65"     | 200 Watts |
| FG8240      | 824-896 MHz | 835 MHz   | Unity | 15"     | 200 Watts |
| FG8243      | 824-896 MHz | 835 MHz   | 3 dBd | 25"     | 200 Watts |
| FG8246      | 824-896 MHz | 835 MHz   | 6 dBd | 65"     | 200 Watts |
| FG8693      | 869-902 MHz | 882 MHz   | 3 dBd | 25"     | 200 Watts |
| FG8960      | 896-940 MHz | 898 MHz   | Unity | 15"     | 200 Watts |
| FG8963      | 896-940 MHz | 898 MHz   | 3 dBd | 25"     | 200 Watts |
| FG8966      | 896-940 MHz | 898 MHz   | 6 dBd | 65"     | 200 Watts |
| FG9023      | 902-928 MHz | 915 MHz   | 3 dBd | 25"     | 200 Watts |
| FG9026      | 902-928 MHz | 915 MHz   | 6 dBd | 65"     | 200 Watts |
| FG9283      | 928-970 MHz | 930 MHz   | 3 dBd | 25"     | 200 Watts |
| FG9360      | 936-970 MHz | 953 MHz   | Unity | 15"     | 200 Watts |
| FG9286      | 928-970 MHz | 930 MHz   | 6 dBd | 65"     | 200 Watts |
| FG9366      | 936-970 MHz | 953 MHz   | 6 dBd | 65"     | 200 Watts |

### 2.4 GHz Models

|         |               |          |       |     |           |
|---------|---------------|----------|-------|-----|-----------|
| FG24005 | 2400-2500 MHz | 2450 MHz | 5 dBi | 14" | 100 Watts |
| FG24008 | 2400-2500 MHz | 2450 MHz | 8 dBi | 24" | 100 Watts |

### Dual Band Model

|             |               |           |       |     |           |
|-------------|---------------|-----------|-------|-----|-----------|
| FG821/18503 | 821-896 MHz   | 858.5 MHz | Unity | 14" | 100 watts |
|             | 1850-1990 MHz | 1920 MHz  | 3 dBd |     |           |

### Fiberglass Base Antennas Mounting Options

|      |                                   |
|------|-----------------------------------|
| FM1  | Stainless Steel U-Bolt Mount (2)  |
| FM2  | Fiberglass Mounting Bracket (2)   |
| FM3  | Heavy Duty Large Mount (2)        |
| FM3W | Heavy Duty Large Mount w/weld (2) |
| FMS9 | 9 Inch Standoff (2)               |
| FMW4 | 4 Inch Wall Mount (2)             |

### Fiberglass Base Antenna Accessories

|              |                                                                                   |
|--------------|-----------------------------------------------------------------------------------|
| SP3-90-6-BFF | Bulkhead Surge Protector, Bulkhead N Fem to N Fem, 6KA Discharge, .4dB IL, 3 GHz  |
| SP3-90-6-BFM | Bulkhead Surge Protector, Bulkhead N Fem to N Male, 6KA Discharge, .4dB IL, 3 GHz |
| SP6-230-BFF  | DC-6GHz Bulkhead Surge Protector, Bulkhead N Fem to N Fem                         |
| SP6-230-BFM  | DC-6GHz Bulkhead Surge Protector, Bulkhead N Fem to N Male                        |
| CCT213       | Heavy Duty Crimp Tool                                                             |
| CN400        | Type N Male                                                                       |
| R400100      | 100' Spool High Performance ATX400                                                |
| R400500      | 500' Spool High Performance ATX400                                                |
| PT40025NN    | Pigtail 25 ft. ATX400 N to N                                                      |
| PT40050NN    | Pigtail 50 ft. ATX400 N to N                                                      |
| PT40075NN    | Pigtail 75 ft. ATX400 N to N                                                      |
| PT400100NN   | Pigtail 100 ft. ATX400 N to N                                                     |
| IASFST       | 36 ft. Roll of MOCAP Installation Tape                                            |
| IASFST10     | Six pack of 10" strips of MOCAP Installation Tape                                 |

| Model | Frequency Range | Gain | Length | Extended Length |
|-------|-----------------|------|--------|-----------------|
|-------|-----------------|------|--------|-----------------|

#### VHF Models

|        |             |       |     |      |
|--------|-------------|-------|-----|------|
| VG1502 | 150-174 MHz | 2 dBi | 55" | 102" |
| VG1325 | 132-150 MHz | 5 dBi | 55" | 102" |
| VG1505 | 150-174 MHz | 5 dBi | 55" | 102" |
| VG1326 | 132-150 MHz | 6 dBi | 55" | 102" |
| VG1506 | 150-174 MHz | 6 dBi | 55" | 102" |
| VG2002 | 200-225 MHz | 2 dBi | 55" | 102" |

#### UHF Models

|        |             |       |     |     |
|--------|-------------|-------|-----|-----|
| VG4065 | 406-450 MHz | 5 dBi | 25" | 35" |
| VG4505 | 450-512 MHz | 5 dBi | 25" | 35" |
| VG4506 | 450-512 MHz | 6 dBi | 25" | 35" |

| Model | Description | Mast |
|-------|-------------|------|
|-------|-------------|------|

#### Mounting Options

|     |                                      |        |
|-----|--------------------------------------|--------|
| FM1 | Stainless Steel U Bolt Mount (2)     | 1 7/8" |
| FM2 | Heavy Duty Base Mounting Bracket (2) | 2 1/2" |

| Model | Frequency | Elements | Gain | Front-Back Ratio | Boom Length | Boom Diameter |
|-------|-----------|----------|------|------------------|-------------|---------------|
|-------|-----------|----------|------|------------------|-------------|---------------|

#### Gold Anodized Non Welded VHF Models

|       |             |   |         |       |         |        |
|-------|-------------|---|---------|-------|---------|--------|
| Y1363 | 136-150 MHz | 3 | 7.1 dBd | 17 dB | 41-1/2" | 7/8"   |
| Y1365 | 136-150 MHz | 5 | 9.2 dBd | 20 dB | 72"     | 1-1/4" |
| Y1503 | 150-174 MHz | 3 | 7.1 dBd | 17 dB | 41-1/2" | 7/8"   |
| Y1505 | 150-174 MHz | 5 | 9.2 dBd | 20 dB | 72"     | 1-1/4" |
| Y2203 | 220-250 MHz | 3 | 7.1 dBd | 17 dB | 41-1/2" | 7/8"   |
| Y2205 | 220-250 MHz | 5 | 9.2 dBd | 20 dB | 72"     | 1-1/4" |

#### Gold Anodized Fully Welded VHF Models\*

|        |              |   |         |       |         |        |
|--------|--------------|---|---------|-------|---------|--------|
| YXXX3W | User Defined | 3 | 7.1 dBd | 17 dB | 41-1/2" | 7/8"   |
| YXXX5W | User Defined | 5 | 9.2 dBd | 20 dB | 72"     | 1-1/4" |

\*may require truck freight

#### Gold Anodized Fully Welded UHF Models

|        |             |    |          |       |           |        |
|--------|-------------|----|----------|-------|-----------|--------|
| Y4065  | 406-430 MHz | 5  | 9.2 dBd  | 20 dB | 37"       | 7/8"   |
| Y4066  | 406-430 MHz | 6  | 10.2 dBd | 20 dB | 44"       | 7/8"   |
| Y4303  | 430-450 MHz | 3  | 7.1 dBd  | 17 dB | 20-3/16"  | 7/8"   |
| Y4305  | 430-450 MHz | 5  | 9.2 dBd  | 20 dB | 37"       | 7/8"   |
| Y4306  | 430-450 MHz | 6  | 10.2 dBd | 20 dB | 44"       | 7/8"   |
| Y43012 | 430-450 MHz | 12 | 11 dBd   | 20 dB | 68 -1/16" | 1-1/4" |
| Y4503  | 450-470 MHz | 3  | 7.1 dBd  | 17 dB | 20-3/16"  | 7/8"   |
| Y4505  | 450-470 MHz | 5  | 9.2 dBd  | 20 dB | 37"       | 7/8"   |
| Y4506  | 450-470 MHz | 6  | 10.2 dBd | 20 dB | 44"       | 7/8"   |
| Y45012 | 450-470 MHz | 12 | 11 dBd   | 20 dB | 68 -1/16" | 1-1/4" |
| Y4705  | 470-490 MHz | 5  | 9.2 dBd  | 20 dB | 37"       | 7/8"   |
| Y4706  | 470-490 MHz | 6  | 10.2 dBd | 20 dB | 44"       | 7/8"   |

#### Gold Anodized Fully Welded 800/900 MHz Models

|        |             |    |        |       |           |      |
|--------|-------------|----|--------|-------|-----------|------|
| Y8063  | 806-896 MHz | 3  | 6 dBd  | 15 dB | 16-3/4"   | 7/8" |
| Y8066  | 806-896 MHz | 6  | 9 dBd  | 16 dB | 27-11/16" | 7/8" |
| Y80612 | 806-896 MHz | 12 | 11 dBd | 20 dB | 48-7/8"   | 7/8" |
| Y8963  | 896-970 MHz | 3  | 6 dBd  | 15 dB | 16 3/4"   | 7/8" |
| Y8966  | 896-970 MHz | 6  | 9 dBd  | 16 dB | 27 11/16" | 7/8" |
| Y89612 | 896-970 MHz | 12 | 11 dBd | 20 dB | 48-7/8"   | 7/8" |
| Y80618 | 806-896 MHz | 18 | 14 dBd | 25 dB | 69 7/8"   | 1"   |
| Y89618 | 896-870 MHz | 18 | 14 dBd | 25 dB | 69 7/8"   | 1"   |

## Voyager®

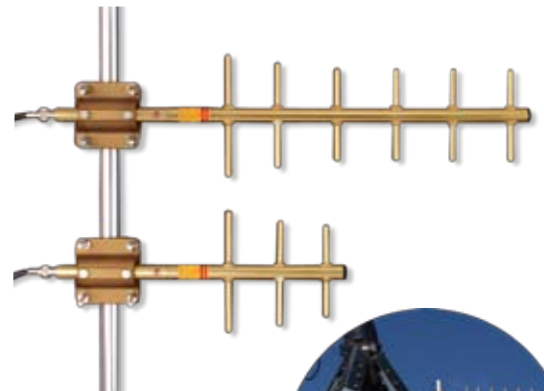
- Field tunable for quick field deployment
- Rugged design performs in harsh environments
- UV inhibiting insulators will not crack, decay, or disassemble with UV exposure

VG1505 and VG4505 shown with optional FM2 Mounting Kit



## Directional Yagis

- 360 Fully Welded Gold Anodized models or value leader Silver Series available
- Line up includes 3 element/7.1 dBd gain to 18 element/14 dBd gain variations
- Internal matching design will not ice up, detune, or corrode
- VHF Custom tuning available



Y8066 and Y8063 shown with YM78HD Heavy Duty Mounting Kit





YS4503

## Silver Series Yagis

- Broad bandwidth allows gain performance to be more consistent through the frequency range

### Technical Data - Product Features & Information

- **VSWR:** <1.5:1
- **Maximum Power:** VHF - 500 watts  
UHF & 800/900 MHz - 300 watts
- **Impedance:** 50 ohm
- **Mounting:** Gold Welded VHF, UHF and 800/900 MHz up to 2 - 7/16" mast. HD Mounting Kit included.  
Silver Series VHF up to 2" mast.  
UHF and 800/900 MHz up to 1 - 5/8" mast.  
Stainless steel brackets included.
- **Tuning:** VHF Yagi's are pre-tuned on a network analyzer to the lowest frequency for that model. Others are center tuned.
- **Elements material:**  
3/8" diameter solid 6061-T6 aluminum.
- **Boom Material:**  
Heat treated 6061-T6 aluminum tube.
- **Boom Diameter:** UHF, 800/900 MHz - 7/8"  
VHF - 3 dB 7/8", 5 dB 1 1/4"
- **Termination Type:** N Female.



YE240015  
Enclosed Yagi

## Enclosed Yagi

- 2.4 GHz is completely sealed and is strong enough for outdoor use
- 15 dBi high gain moves your lower power ISM or WLAN signal from point to point with minimal signal loss

| Model | Frequency | Elements | Gain | Front-Back Ratio | Boom Length | Boom Diameter |
|-------|-----------|----------|------|------------------|-------------|---------------|
|-------|-----------|----------|------|------------------|-------------|---------------|

### Black Anodized Fully Welded UHF Models

|        |             |   |         |       |     |      |
|--------|-------------|---|---------|-------|-----|------|
| YB4505 | 450-470 MHz | 5 | 9.2 dBd | 20 dB | 37" | 7/8" |
|--------|-------------|---|---------|-------|-----|------|

### Black Anodized Fully Welded 800/900 MHz Models

|         |             |    |        |       |           |      |
|---------|-------------|----|--------|-------|-----------|------|
| YB8066  | 806-896 MHz | 6  | 9 dBd  | 16 dB | 27-11/16" | 7/8" |
| YB8966  | 896-970 MHz | 6  | 9 dBd  | 16 dB | 27-11/16" | 7/8" |
| YB80618 | 806-896 MHz | 18 | 14 dBd | 25 dB | 70"       | 1"   |
| YB89618 | 896-970 MHz | 18 | 14 dBd | 25 dB | 70"       | 1"   |

### Replacement Mounting Kits All accommodate up to 2-13/32" diameter mast

|         |                                                                     |
|---------|---------------------------------------------------------------------|
| YM78    | Stainless Steel Mounting Bracket for YS series Yagis with 7/8" boom |
| YM78HD  | HD Yagi Mounting Kit for Yagis with 7/8" boom                       |
| YM100HD | HD Yagi Mounting Kit for Yagis with 1" boom                         |
| YM125HD | HD Mount Bracket for Yagis with 1-1/4" boom                         |

### Silver Series VHF Models

|        |             |   |         |       |         |        |
|--------|-------------|---|---------|-------|---------|--------|
| YS1363 | 136-150 MHz | 3 | 7.1 dBd | 17 dB | 41-1/2" | 7/8"   |
| YS1503 | 150-174 MHz | 3 | 7.1 dBd | 17 dB | 41-1/2" | 7/8"   |
| YS1505 | 150-174 MHz | 5 | 9.2 dBd | 20 dB | 72"     | 1-1/4" |
| YS2165 | 216-225 MHz | 5 | 9.2 dBd | 20 dB | 72"     | 1-1/4" |
| YS2203 | 220-250 MHz | 3 | 7.1 dBd | 17 dB | 41-1/2" | 7/8"   |
| YS2205 | 220-250 MHz | 5 | 9.2 dBd | 20 dB | 72"     | 1-1/4" |

### Silver Series UHF Models

|         |             |    |          |       |          |        |
|---------|-------------|----|----------|-------|----------|--------|
| YS4063  | 406-430 MHz | 3  | 7.1 dBd  | 17 dB | 20 3/16" | 7/8"   |
| YS4065  | 406-430 MHz | 5  | 9.2 dBd  | 20 dB | 37"      | 7/8"   |
| YS4303  | 430-450 MHz | 3  | 7.1 dBd  | 17 dB | 20 3/16" | 7/8"   |
| YS4305  | 430-450 MHz | 5  | 9.2 dBd  | 20 dB | 37"      | 7/8"   |
| YS4306  | 430-450 MHz | 6  | 10.2 dBd | 20 dB | 44"      | 7/8"   |
| YS43012 | 430-450 MHz | 12 | 11 dBd   | 20 dB | 68-1/16" | 1-1/4" |
| YS4503  | 450-470 MHz | 3  | 7.1 dBd  | 17 dB | 20 3/16" | 7/8"   |
| YS4505  | 450-470 MHz | 5  | 9.2 dBd  | 20 dB | 37"      | 7/8"   |
| YS4506  | 450-470 MHz | 6  | 10.2 dBd | 20 dB | 44"      | 7/8"   |
| YS45012 | 450-470 MHz | 12 | 11 dBd   | 20 dB | 72"      | 1-1/4" |
| YS47012 | 470-490 MHz | 12 | 11 dBd   | 20 dB | 68-1/16" | 1-1/4" |
| YS4906  | 490-512 MHz | 6  | 10.2 dBd | 20 dB | 44"      | 7/8"   |

### Silver Series 800/900 MHz Models

|         |             |    |        |       |         |      |
|---------|-------------|----|--------|-------|---------|------|
| YS8063  | 806-896 MHz | 3  | 6 dBd  | 15 dB | 16 3/4" | 7/8" |
| YS8066  | 806-896 MHz | 6  | 9 dBd  | 16 dB | 27 3/4" | 7/8" |
| YS80612 | 806-896 MHz | 12 | 11 dBd | 20 dB | 49"     | 7/8" |
| YS8963  | 896-970 MHz | 3  | 6 dBd  | 15 dB | 16 3/4" | 7/8" |
| YS8966  | 896-970 MHz | 6  | 9 dBd  | 16 dB | 27 3/4" | 7/8" |
| YS89612 | 896-970 MHz | 12 | 11 dBd | 20 dB | 49"     | 7/8" |

| Model | Description | Gain | Front-Back Ratio | Length |
|-------|-------------|------|------------------|--------|
|-------|-------------|------|------------------|--------|

### Enclosed 2.4 -4.9 GHz Models

|          |               |          |       |        |
|----------|---------------|----------|-------|--------|
| YE24006  | 2.4-2.5 GHz   | 11.2 dBi | 20 dB | 8"     |
| YE24007  | 2.4-2.5 GHz   | 12.7 dBi | 20 dB | 8"     |
| YE240015 | 2.4-2.5 GHz   | 15 dBi   | 20 dB | 16"    |
| YE490012 | 4.9-5.8 GHz   | 14.5 dBi | 20 dB | 7 3/4" |
| YE525012 | 5.25-5.35 GHz | 14.5 dBi | 20 dB | 7 3/4" |

### Antenna Masts

|        |                                            |
|--------|--------------------------------------------|
| YMST4  | 4"x1-1/4" OD x .065" wall alum. mast       |
| YMST8  | 8"x1-1/4" OD x .065" wall alum. mast       |
| YMST18 | 18"x1-1/4" OD x .065" wall alum. mast (2p) |

Model Description

### Yagi Accessories

|              |                                                                                   |
|--------------|-----------------------------------------------------------------------------------|
| SP3-90-6-BFF | Bulkhead Surge Protector, Bulkhead N Fem to N Fem, 6KA Discharge, .4dB IL, 3 GHz  |
| SP3-90-6-BFM | Bulkhead Surge Protector, Bulkhead N Fem to N Male, 6KA Discharge, .4dB IL, 3 GHz |
| SP6-230-BFF  | DC-6GHz Bulkhead Surge Protector, Bulkhead N Fem to N Fem                         |
| SP6-230-BFM  | DC-6GHz Bulkhead Surge Protector, Bulkhead N Fem to N Male                        |
| CCT213       | Crimp Tool For ATX400                                                             |
| CN400        | N Connector For ATX400                                                            |
| R400100      | 100 ft. Roll of ATX400                                                            |
| R400500      | 500 ft. Roll of ATX400                                                            |
| IASFST       | 36 ft. Roll of MOCAP Installation Tape                                            |
| IASFST10     | Six pack of 10" strips of MOCAP Installation Tape                                 |

| Model | Frequency Range | Omni Gain | Offset Gain | Dipole Bays |
|-------|-----------------|-----------|-------------|-------------|
|-------|-----------------|-----------|-------------|-------------|

### Dipole Arrays 2 Bays

|         |         |       |       |   |
|---------|---------|-------|-------|---|
| YDA1502 | 150-174 | 3 dBd | 6 dBd | 2 |
| YDA4502 | 450-470 | 3 dBd | 6 dBd | 2 |

### Single Or Replacement Dipoles

|         |               |       |     |
|---------|---------------|-------|-----|
| YDA***1 | Specify Freq. | Unity | N/A |
|---------|---------------|-------|-----|

### Dipole Arrays 4 Bays

|         |         |       |       |   |
|---------|---------|-------|-------|---|
| YDA1364 | 136-150 | 6 dBd | 9 dBd | 4 |
| YDA1504 | 150-174 | 6 dBd | 9 dBd | 4 |
| YDA4504 | 450-470 | 6 dBd | 9 dBd | 4 |
| YDA4704 | 470-490 | 6 dBd | 9 dBd | 4 |
| YDA4904 | 490-512 | 6 dBd | 9 dBd | 4 |

Model Description

### Antenna Masts

|        |                                                  |
|--------|--------------------------------------------------|
| YMST4  | 4'x1-1/4" OD x .065" wall alum. mast             |
| YMST8  | 8'x1-1/4" OD x .065" wall alum. mast             |
| YMST18 | 18'x1-1/4" OD x .065" wall alum. mast (2 pieces) |

### Replacement Power Dividers / Stacking Harnesses

|          |                                             |
|----------|---------------------------------------------|
| YPD***2N | For 2 bay array or to stack 2 Yagis (N)     |
| YPD***2P | For 2 bay array or to stack 2 Yagis (PL259) |
| YPD***4N | For 4 bay array (N)                         |
| YPD***4P | For 4 bay array (PL259)                     |
| YPD8**2N | For stacking 2 800 MHz Yagis (N)            |
| YPD9**2N | For stacking 2 900 MHz Yagis (N)            |

### Dipole Array Accessories

|          |                                                   |
|----------|---------------------------------------------------|
| IASFST   | 36 ft. Roll of MOCAP Installation Tape            |
| IASFST10 | Six pack of 10" strips of MOCAP Installation Tape |

## Dipole Array

- Custom pattern performance at installation
- 360 degree welds around each element to boom joints on UHF models eliminates pattern degradation and maintains dimensional stability
- Nickel plated brass N female connector provide durability and performance



YDA4504

## Technical Data - Product Features & Information

- **VSWR:** <1.5:1
- **Max Power:** 300 watts
- **Impedance:** 50 ohms
- **Termination Type:** N Female and SO239 upon request.
- **Lightning Protection:** DC Ground
- **Vertical Beam at 1/2 Power:** Unity - 90 degrees  
3 dB - 39 degrees  
6 dB - 24 degrees  
9 dB - 15 degrees
- **Mast Size Needed:**  
VHF: 3 dB - 8 ft.  
6 dB - 18 ft.  
UHF 3 dB - 4 ft.  
6 dB - 8 ft.
- **Element Material:** 3/8" diameter solid 6061-T6 aluminum rod.
- **Wind Survival:** 100 M.P.H.
- **Boom Material:** Heat treated 6061-T6 aluminum tube.
- **Hardware:** Stainless steel U-Bolt included.

Contact Laird Technologies for technical assistance, product applications, part number questions, warranty and service questions.

Contact any of the Laird Technologies distributors listed below to order antenna solutions.

#### NATIONAL

Tessco Technologies  
800-508-5444  
www.tessco.com  
Talley Communications  
800-949-7079  
www.talleycom.com  
Hutton Communications  
877-648-8866  
www.huttoncom.com

#### MIDWEST

Primus Electronics Corp.  
800-435-1636  
www.primuselectronics.com  
Pulstar  
800-634-4246  
www.pulstar.net  
Santa Fe Distributing Inc.  
800-255-6595  
www.s-f-d.com

#### SOUTHEAST

HYT America, Inc./Marketronics  
800-845-1230  
www.hytamerica.com  
TEDI  
800-729-8334 www.rfdistributor.com  
SOUTHWEST  
Sparco Technologies  
800-890-1359  
www.sparcotech.com

#### CANADA

Omni Provincial Electronics  
877-291-9633  
www.omnipro.ca  
OEM DISTRIBUTORS  
Arcadian Sales  
888-925-5967  
www.arcadiansales.com  
Stellar Satellite Communications  
Orbcomm network solutions  
703-433-6491  
www.stellar-sat.com

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