

# Signal Point / PJ2T Antennas

K8ND 131018a

## PJ2T Antennas By Band

BAND	ANTENNA, HEIGHT	DIRECTION	TOWER	NOTES
160	Inverted-L	Omni	Ground	Top @ 95-feet, ~45 radials. Matched with unun
80	3-Element Delta Quad (Apex at 70')	Europe	Between 100' & 80' Towers	Tuned CW or SSB with knife switches at bottom of each loop.
80	2-Element Wire V-Beam @ 75'	USA/JA	80' (US) Tower	
80	Inverted-V @ 25'	Europe	20' Ridge Tower	Tuned CW or SSB by folding one side back. The 'Ridge Tower' is mounted ~170 feet above the station level with a fast drop-off to Europe.
40	2-Element Yagi @ 107'	Rotatable	100' (EU) Tower	Cushcraft 40-2CD w/W6QHS mechanical mods
40	Inverted-V @ 75'	Fixed	80' (US) Tower	Former 80m inverted-V, normally not deployed. Tied to tower for emergency deployment.
30	Inverted-V @ 55'	Fixed	58' (WARC) Tower	
20	5 Element Yagi @ 90'	Europe	100' (EU) Tower	Optimized Hy-Gain 205-BAS 5-elements on 34-foot boom.
20	5 Element Yagi @ 71'	USA/JA	80' (US) Tower	Optimized Hy-Gain 205-BAS 5-elements on 34-foot boom.
17/12	Cushcraft A-3WS @ 65'	Rotatable	58' (WARC) Tower	3-element trapped.
15	5 Element Yagi @ 82'	Europe	100' (EU) Tower	Optimized homebrew 5-elements on 35-foot boom.
15	5 Element Yagi @ 65'	USA/JA	80' (US) Tower	Optimized homebrew 5-elements on 36-foot 3-inch boom, K3LR parts/design.
10	5 Element Yagi @ 74'	Europe	100' (EU) Tower	Optimized homebrew 5-elements on 24-foot boom
10	5 Element Yagi @ 48'	USA/JA	80' (US) Tower	Part of Stack
10	5 Element Yagi @ 32'	USA/JA	80' (US) Tower	Part of Stack
6	5 Element Yagi @ 88'	Rotatable	80' (US) Tower	Cushcraft A50-5S w/W5WVO modifications.
2	Cushcraft Ringo Ranger @ 12'			
20/15/10	Bencher Skyhawk @ 15'	Europe	20' Ridge Tower	10-elements, trapless. Fed through Triplexer. The 'Ridge Tower' is mounted ~170 feet above the station level with a fast drop-off to Europe.
20/15/10	Force 12 C-3E/H @ 79'	Rotatable	80' (US) Tower	18-foot boom
20/15/10	Mosley TA-34XL @ 67'	Pacific (285 deg)	100' (EU) Tower	4-elements, trapped.
20/15/10	Cushcraft A-3S @ 45'	South America (150 deg)	100' (EU) Tower	3-elements, trapped.

# Signal Point / PJ2T Antennas

K8ND 131018a

## PJ2T Antennas By Tower

### 100-Foot Rohn 55 (Europe) Tower

ANTENNA	HEIGHT	HEIGHT	DIRECTION	NOTES
2-Element 40m Yagi	107 feet	0.8 wl	Rotatable	Cushcraft 40-2CD w/W6QHS mechanical mods
5-Element 20m Yagi	90 feet	1.36 wl	Fixed Europe	Optimized Hy-Gain 205-BAS on 34-foot boom
5-Element 15m Yagi	82 feet	1.85 wl	Fixed Europe	Optimized homebrew 5-elements on 35-foot boom
5-element 10m Yagi	74 feet	2.22 wl	Fixed Europe	Optimized homebrew 5-elements on 24-foot boom
20/15/10 Tribander: Pacific	67 feet		Fixed Pacific: 285 deg True	Mosley TA34XL tribander
20/15/10 Tribander: South America	45 feet		Fixed South America: 150-deg True	Cushcraft A-3S tribander

### 80-foot Rohn 45 (US / JA) Tower

ANTENNA	HEIGHT	HEIGHT	DIRECTION	NOTES
5-Element 6-Meter Yagi	88 feet	4.71 wl	Rotatable	Cushcraft A50-5S w/W5WVO mods
20/15/10 Tribander	79 feet		Rotatable	Force 12 C-3E/H tribander. 18-foot boom
5-Element 20m Yagi	71 feet	1.07 wl	Fixed USA/Japan	Optimized Hy-Gain 205-BAS on 34-foot boom
5-Element 15m Yagi	65 feet	1.35 wl	Fixed USA/Japan	Optimized homebrew 5-els on 36-foot boom. K3LR parts/design.
5-Element 10m Yagi	48 feet	1.44 wl	Fixed USA/Japan	Top in stack
5-Element 10m Yagi	32 feet	0.96 wl	Fixed USA/Japan	Bottom in stack
3-Element 80m Delta Quad	70 feet (apex)	0.27 wl	Fixed Europe	Between 100 & 80 ft towers. Switchable CW/SSB.
2-Element 80m Wire Inv-V Yagi	75 feet (apex)	0.29 wl	Fixed USA/JA	Switchable CW/SSB by folding-back element ends
80-meter Inv-V / 40-meter Emergency Inv-V	75 feet		Omnidirectional	(Not deployed. Currently 80m, tied-down to tower)

### 58-Foot Aluminum (WARC) Tower

ANTENNA	HEIGHT	HEIGHT	DIRECTION	NOTES
17/12 WARC Dual Band Yagi	65 feet		Rotatable	Cushcraft A-3WS
30-meter Inverted-V	55 feet	0.65 wl	Omnidirectional	

### 20-Foot (Ridge) Tower. The 'Ridge Tower' is mounted ~170 feet above the station level with a fast drop-off to Europe.

ANTENNA	HEIGHT	HEIGHT	DIRECTION	NOTES
20/15/10 Bencher Skyhawk	15 feet		Europe	10-elements, trapless. Fed through triplexer.
80-meter Inverted-V	20 feet			Tuned 80- or 75-meters tuned by folding ends

### Ground Mounted TX Antennas

ANTENNA	HEIGHT	HEIGHT	DIRECTION	NOTES
160m Inverted-L				Wire, ~50 feet vertical, top to 95 feet. ~45 Radials.
2-Meter Ringo Ranger	12 feet			

### Receive Antennas (Ground Mounted)

ANTENNA	LENGTH	LENGTH (wl @ 1.82 MHz)	DIRECTION	NOTES
US/JA Beverage	635 feet	1.26 wl	335 Degrees (True)	
Europe Beverage	1000 feet	1.94 wl	55 Degrees (True)	
DX Engineering RX 4-Square	98 ft square		USA/JA, EU, SA, VK/ZL	4 directions, switchable 328, 54, 148, 234 (True). Deployable, for temporary installation
Flag RX Antenna #1				Deployable, for temporary installation
Flag RX Antenna #2				Deployable, for temporary installation