



Product Guide

Nevada – USA

WWW.CHAMELEONANTENNA.COM



VERSATILE – DEPENDABLE – STEALTH – BUILT TO LAST

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Introduction

Thank you for purchasing and using the Chameleon Antenna™ Modular Portable Antenna System (MPAS) family of antennas and components. Using a building block approach, MPAS Ready antennas and components enable operators to tailor their antenna configuration based on propagation characteristics, site conditions, operating goals, and other influencing factors. This unsurpassed antenna component flexibility ensures optimal performance across diverse scenarios and conditions. MPAS Ready antennas and components also enable incremental upgrades to your portable antenna system to meet new operating requirements, goals, or hobby interests thus avoiding operating obsolescence.

The purpose of this Product Guide is to provide information to help you select MPAS Ready antennas and components to meet your operating requirements and to show a sample of the myriad of ways MPAS Ready antennas and components can be assembled and used.

The Product Guide is divided into three sections:

1. **MCC Based Configurations.** Base loaded, variably tuned antennas using the Multi-Configuration Coil (MCC).
2. **BV Based Configurations.** Resonant, single band at a time antennas using the Blank Adapter.
3. **Hybrid Mini / Micro Configurations.** Broadband antennas using the Hybrid Micro or Mini Transformer.

To “build” an antenna system, use the Tech Tree at the beginning of each section that shows the progressive component assembly into an antenna system. It is a four-step process: select a mount, select the base, select the radiator, and select the counterpoise.

The individual product Infographic will help you decide which combination of components will build the antenna system that meets your operating requirements.

Product Infographic

The individual product *Infographic* provides the information necessary to make choices about antenna system components and configurations based on their characteristics and attributes.

Product Name

CHA PRV


(MCC + SS58 + 4 X 12.5 ft Counterpoise)

Major Components

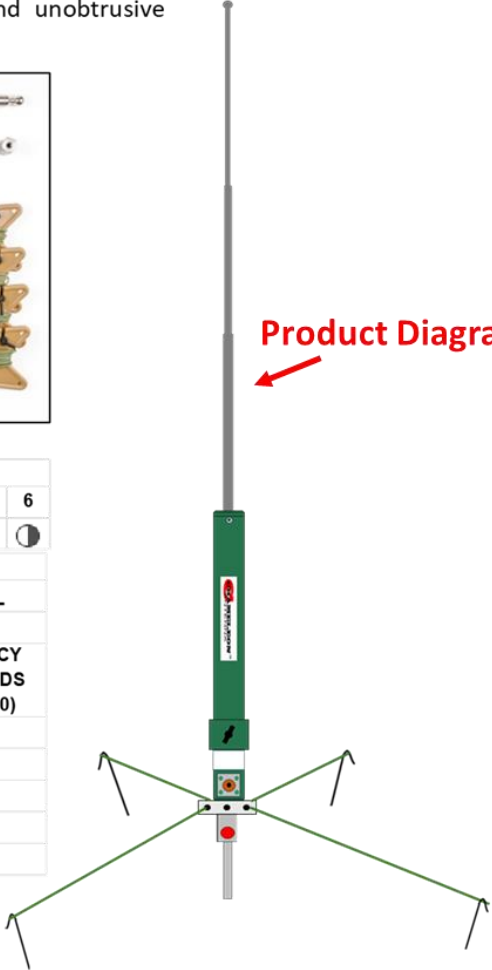
Product Description

The Portable Resonant Vertical (CHA PRV) with the MCC, SS58, and four 12 ½ ft. counterpoise wires is the standard configuration. It doesn't require an antenna tuner, is highly portable, compact, and unobtrusive when operating in public places.

Product Photograph



Product Diagram



Product Attributes

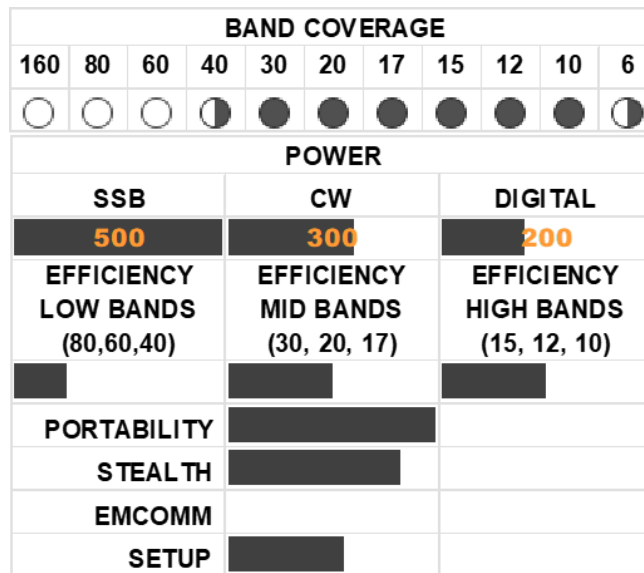
BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
POWER										
SSB			CW			DIGITAL				
500			300			200				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
PORTABILITY			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
STEALTH			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
EMCOMM			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
SETUP			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				

Pro Tip

Pro Tip: Replace the Ground Spike with the Carbon Fiber Mini-Tripod for a flexible and travel friendly portable antenna system.

Product Attributes

The individual product *Infographic* provides the information necessary to make choices about antenna system components and configurations based on their characteristics and attributes. Just like a Formula 1 racing car would perform poorly on an off-road trail, there is no such thing as a “perfect antenna”. The Attributes chart, shown below will help you decide about the trade-offs between attributes for the various antenna configurations to build an antenna system that will meet your operating needs.



Attributes:

- **BAND COVERAGE:** Solid circles indicates full performance on the band. A half-filled circle indicates it is operable on the band, but performance is limited. An empty circle means no capability on the band.
- **POWER:** The power handling capability of the antenna for each mode. The DIGITAL mode includes all digital modes, AM, FM, RTTY, and all other high/continuous duty cycle modes.
- **EFFICIENCY:** The efficiency bars indicates the relative performance of the antenna configuration on each set of bands compared with the other antennas in the MPAS READY family of antennas.
- **PORTABILITY:** Relative portability of this antenna considering packed size and weight.
- **STEALTH:** Relative stealthiness of this antenna considering color and size when setup in the field.
- **EMCOMM:** Relative ability to perform a regional EMCOMM mission.
- **SETUP:** Relative amount of time to assemble, erect, and tune the antenna and the space required in the field.

Note: These attributes and their values should be used as a tool to help customers evaluate how different MPAS READY antennas perform relative to each other, considering their design, configuration, and intended use cases. They are not universal measures or an absolute values in a broader context or against products outside of the MPAS READY family of antennas.

MCC Based Configurations



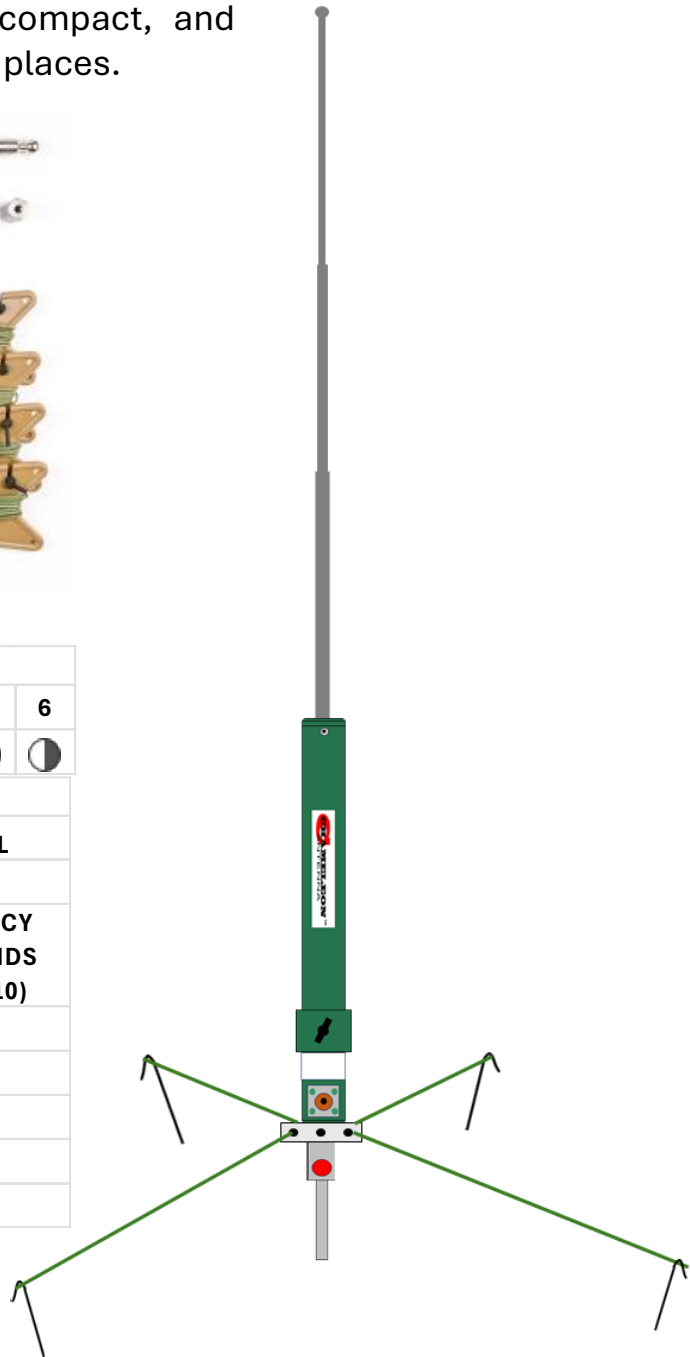
CHA PRV

(MCC + SS58 + 4 X 12.5 ft Counterpoise)

The Portable Resonant Vertical (CHA PRV) with the MCC, SS58, and four 12 ½ ft. counterpoise wires is the standard configuration. It doesn't require an antenna tuner, is highly portable, compact, and unobtrusive when operating in public places.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW			DIGITAL				
500			300			200				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



Pro Tip: Replace the Ground Spike with the Carbon Fiber Mini-Tripod for a flexible and travel friendly portable antenna system.

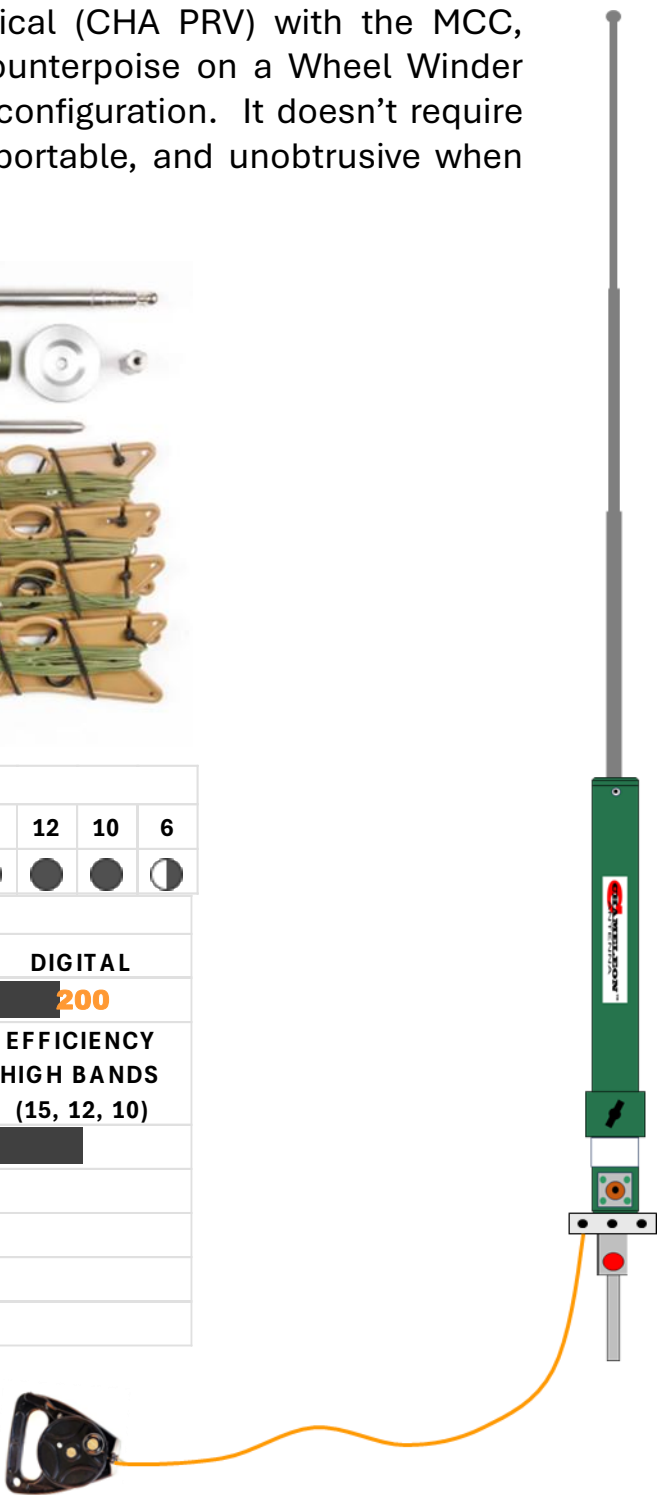
CHA PRV

(MCC + SS58 + WHEEL WINDER 34 ft Counterpoise)

The Portable Resonant Vertical (CHA PRV) with the MCC, SS58, and a single 34 ft. counterpoise on a Wheel Winder makes a rapidly deployable configuration. It doesn't require an antenna tuner, is highly portable, and unobtrusive when operating in public places.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
POWER										
SSB			CW			DIGITAL				
500			300			200				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



Pro Tip: Replace the Ground Spike with the Carbon Fiber Mini-Tripod for a flexible and travel friendly portable antenna system.

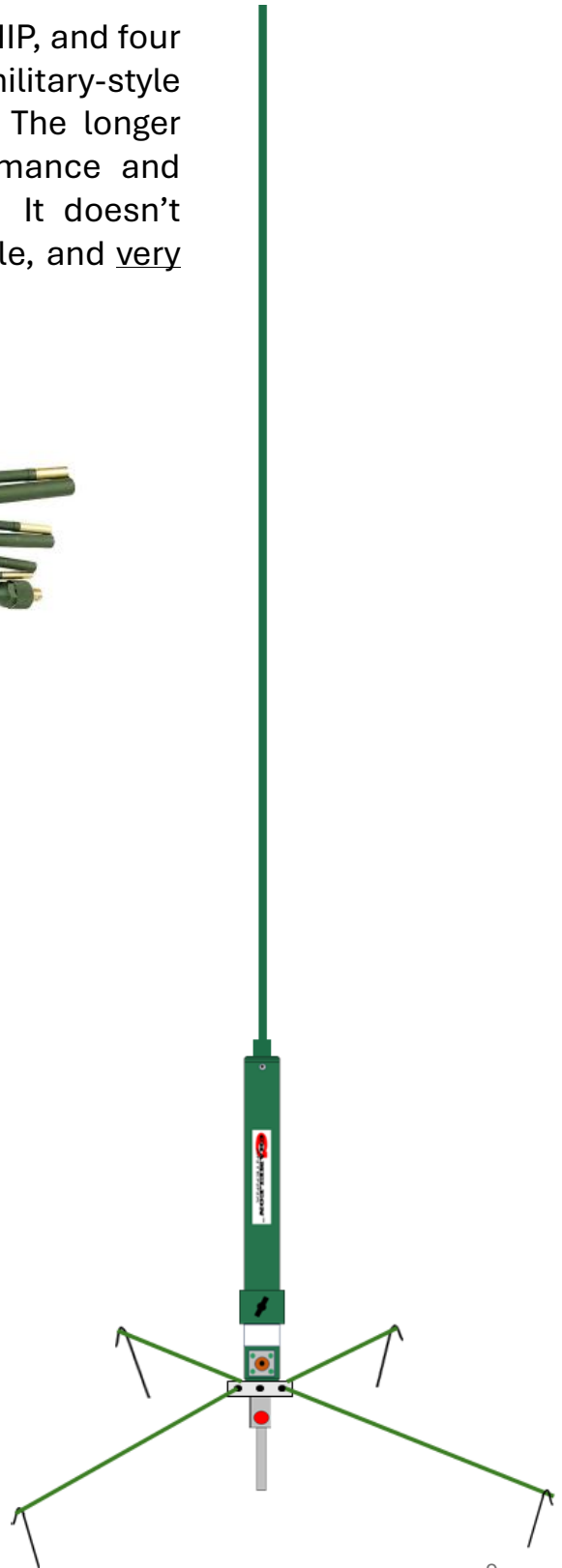
CHA PRV (MIL)

(MCC + MIL WHIP + 4 X 12.5 ft Counterpoise)

The CHA PRV (MIL) uses the MCC, MIL WHIP, and four 12 ½ ft. counterpoise wires. It is a military-style variation of the standard configuration. The longer MIL WHIP (9 ft. 4 in.) improves performance and enables operation on 60 – 15 meters. It doesn't require an antenna tuner, is highly portable, and very stealthy.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW			DIGITAL				
500			300			200				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



CHA PRV (SS17)

(MCC + SS17 + 4 X 12.5 ft Counterpoise)

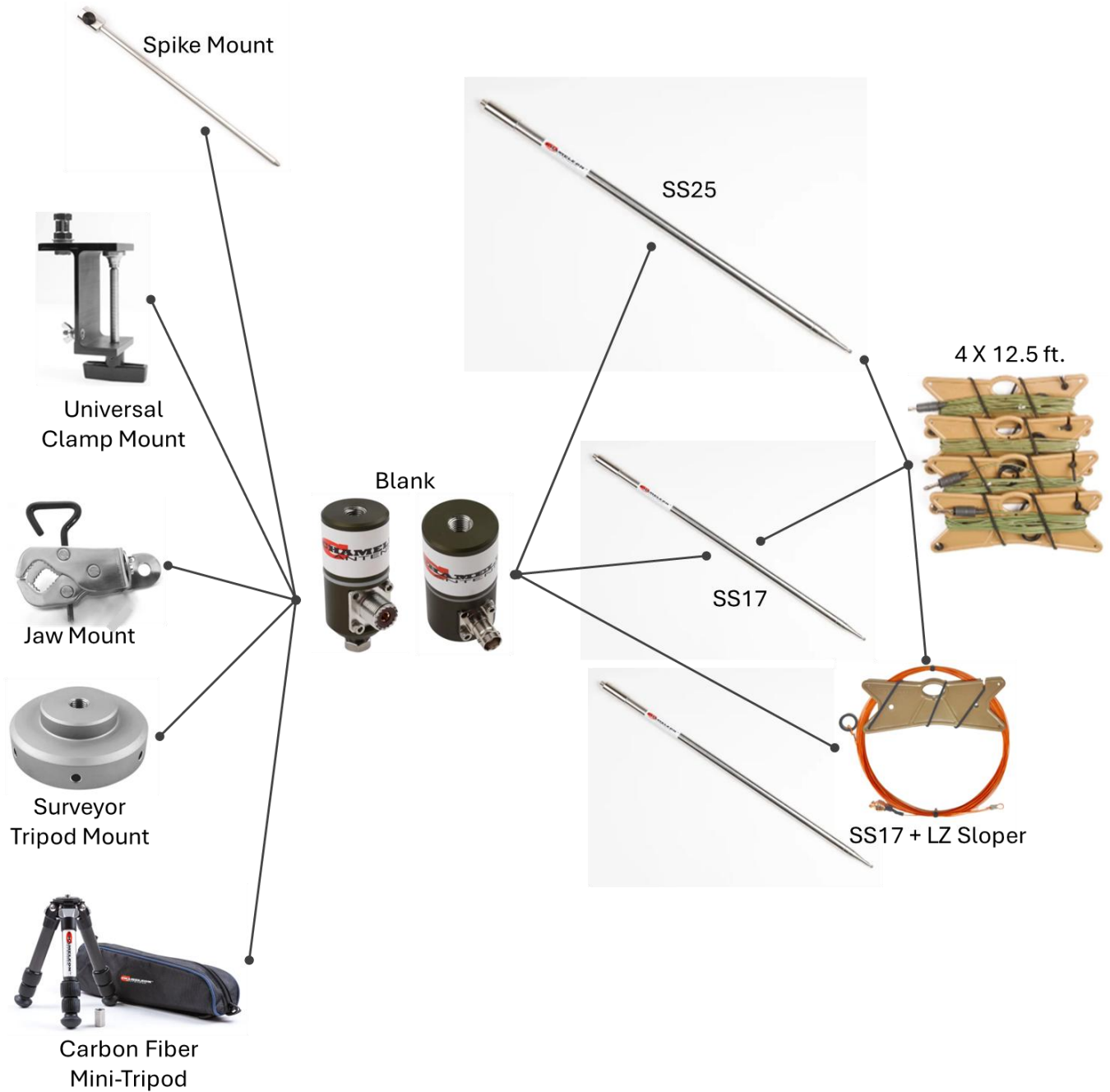
The CHA PRV (SS17) uses the MCC, SS17, and four 12 ½ ft. counterpoise wires. It is a high-performance variation of the standard configuration. The long SS17 telescopic whip (17 ft.) improves performance, enables operation on 60 – 10 meters, and doesn't require an antenna tuner.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
POWER										
SSB			CW			DIGITAL				
500			300			200				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



BV Based Configurations



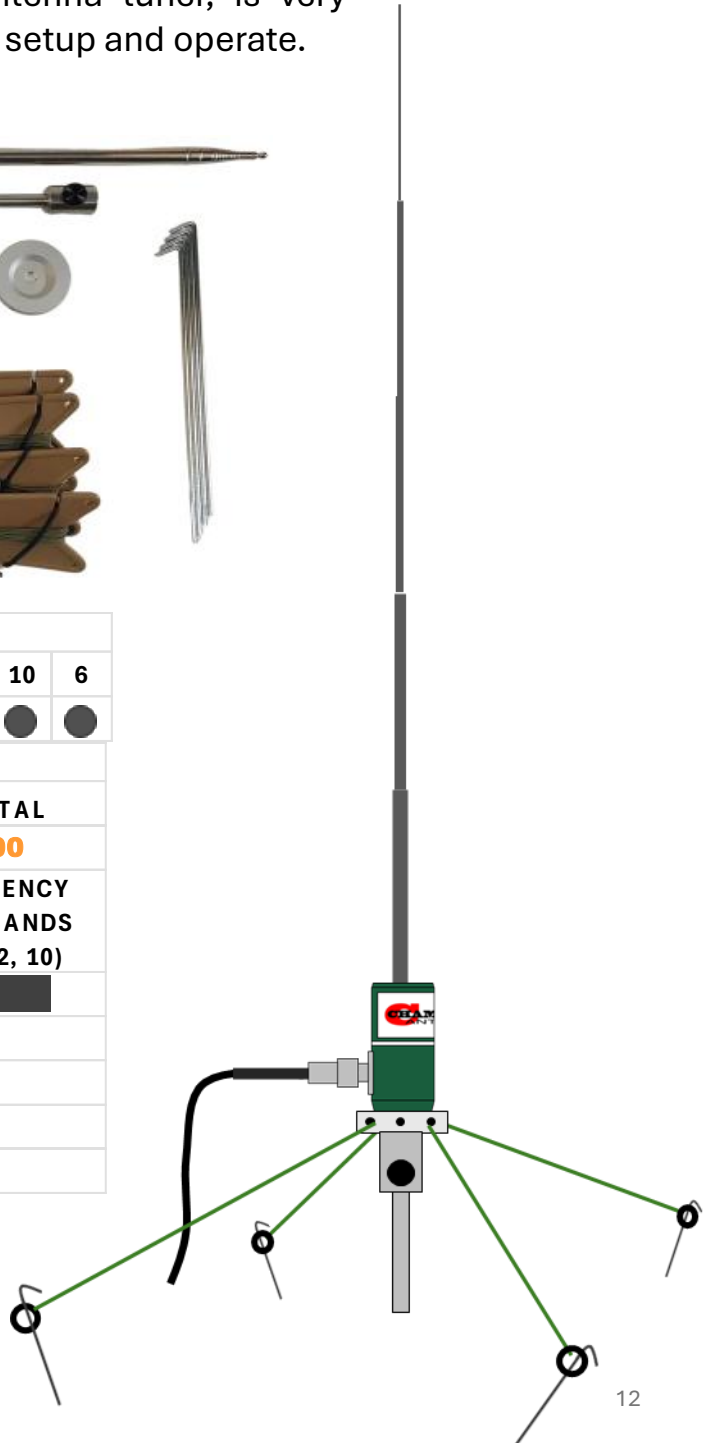
CHA BV

(Blank + SS17 + 4 X 12.5 ft Counterpoise)

The Basic Vertical (CHA BV) (SS17) with the Blank, SS17, and four 12 ½ ft. counterpoise wires is the standard configuration. It is a high-performance resonant quarter wave vertical antenna for 20 – 6 meters. It doesn't require an antenna tuner, is very portable, and is simple and easy to setup and operate.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
POWER										
SSB		CW		DIGITAL						
300		200		200						
EFFICIENCY LOW BANDS (80,60,40)		EFFICIENCY MID BANDS (30, 20, 17)		EFFICIENCY HIGH BANDS (15, 12, 10)						
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



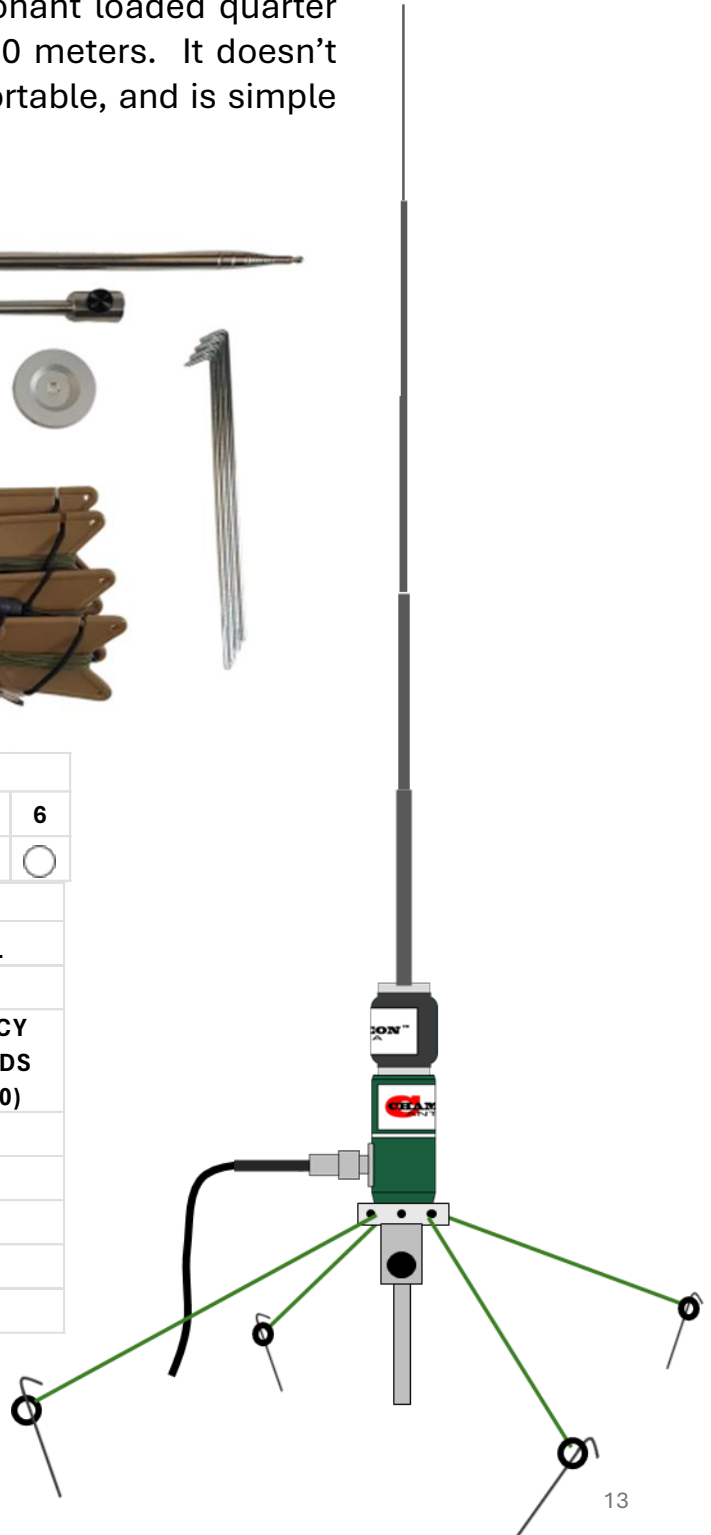
CHA BV

(Blank + SS17 + 40M-Coil + 4 X 12.5 ft Counterpoise)

The Basic Vertical (CHA BV) (SS17) with the Blank, SS17, 40M-Coil, and four 12 ½ ft. counterpoise wires is the standard configuration. It is a resonant loaded quarter wave vertical antenna for 40 and 30 meters. It doesn't require an antenna tuner, is very portable, and is simple and easy to setup and operate.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
POWER										
SSB			CW			DIGITAL				
300			200			200				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



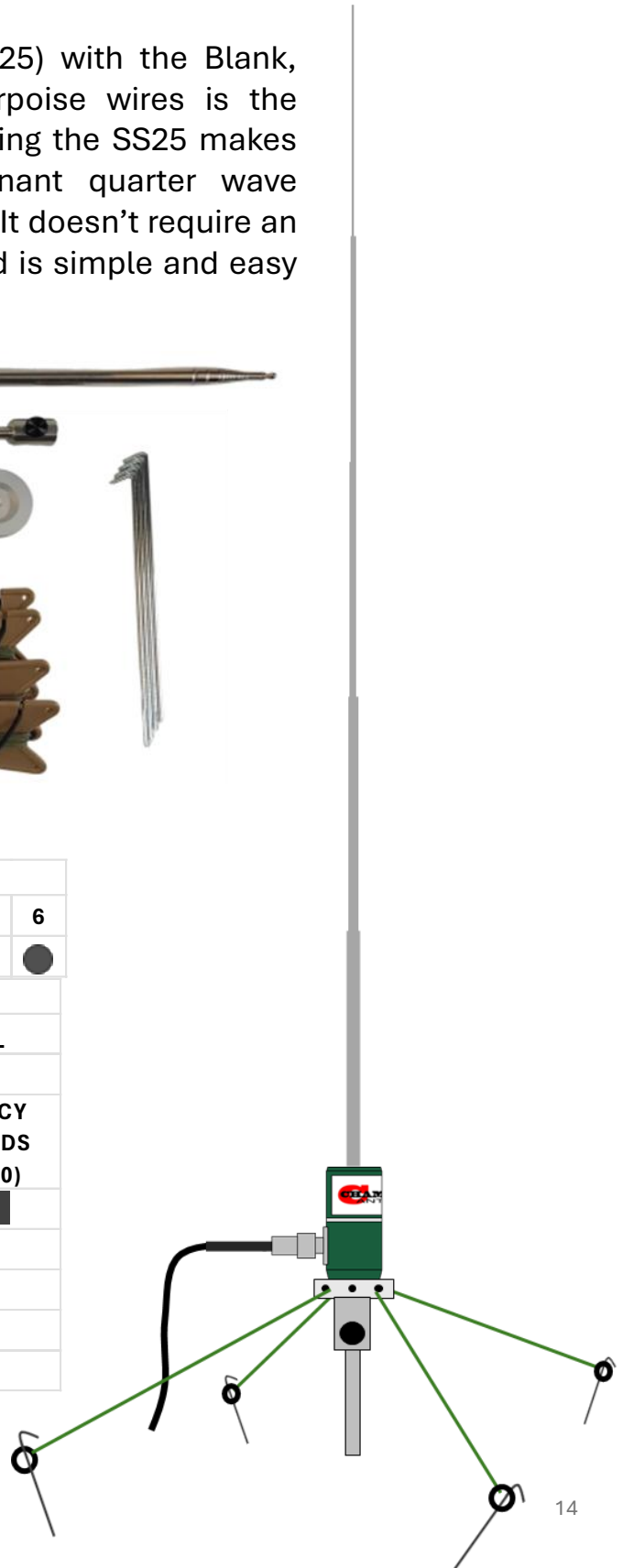
CHA BV

(Blank + SS25 + 4 X 12.5 ft Counterpoise)

The Basic Vertical (CHA BV) (SS25) with the Blank, SS25, and four 12 ½ ft. counterpoise wires is the extended length configuration. Using the SS25 makes this a high-performance resonant quarter wave vertical antenna for 30 – 6 meters. It doesn't require an antenna tuner, is very portable, and is simple and easy to setup and operate.



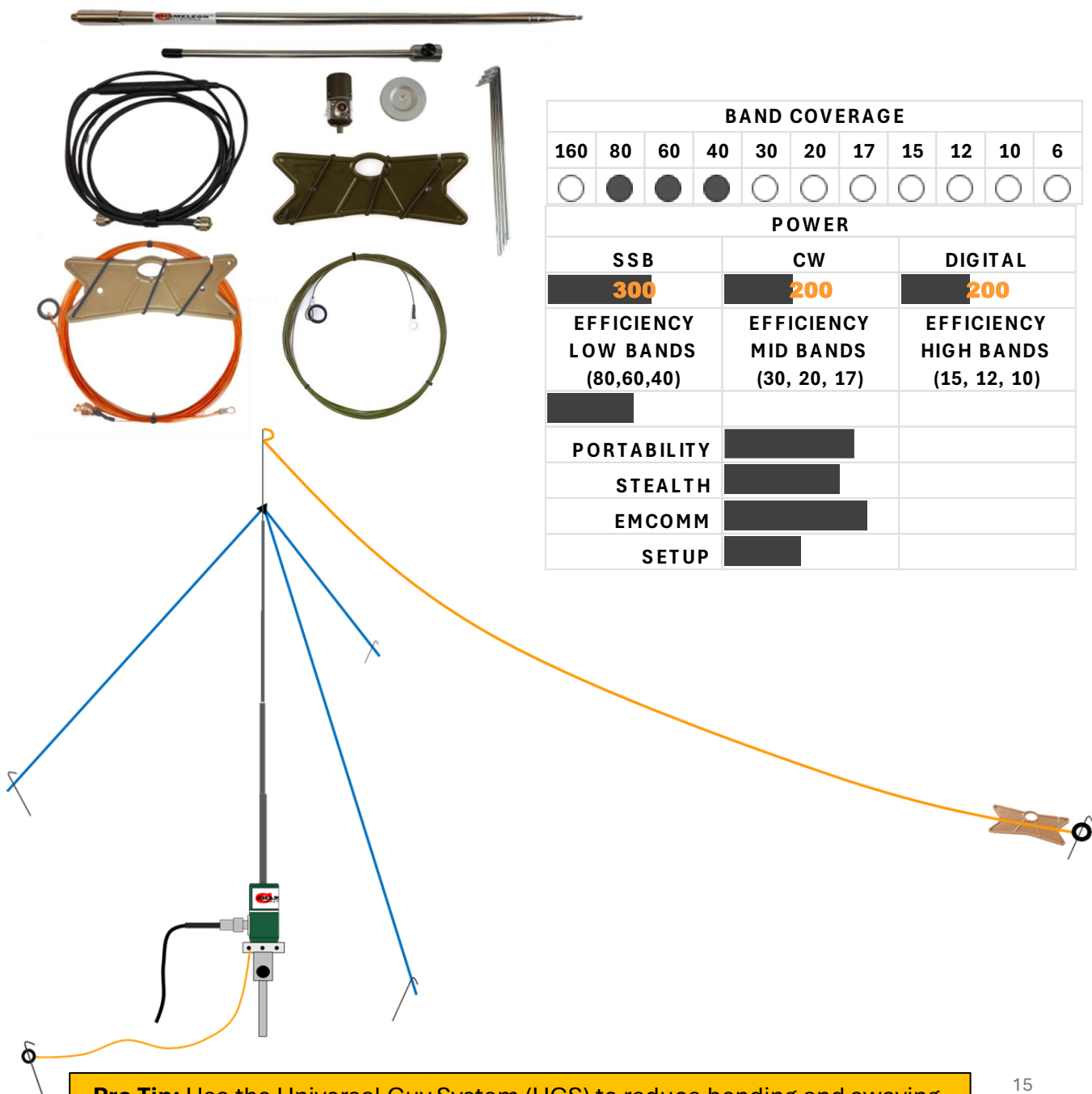
BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
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POWER										
SSB		CW		DIGITAL						
300		200		200						
EFFICIENCY LOW BANDS (80,60,40)		EFFICIENCY MID BANDS (30, 20, 17)		EFFICIENCY HIGH BANDS (15, 12, 10)						
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



CHA BV (LZ Sloper)

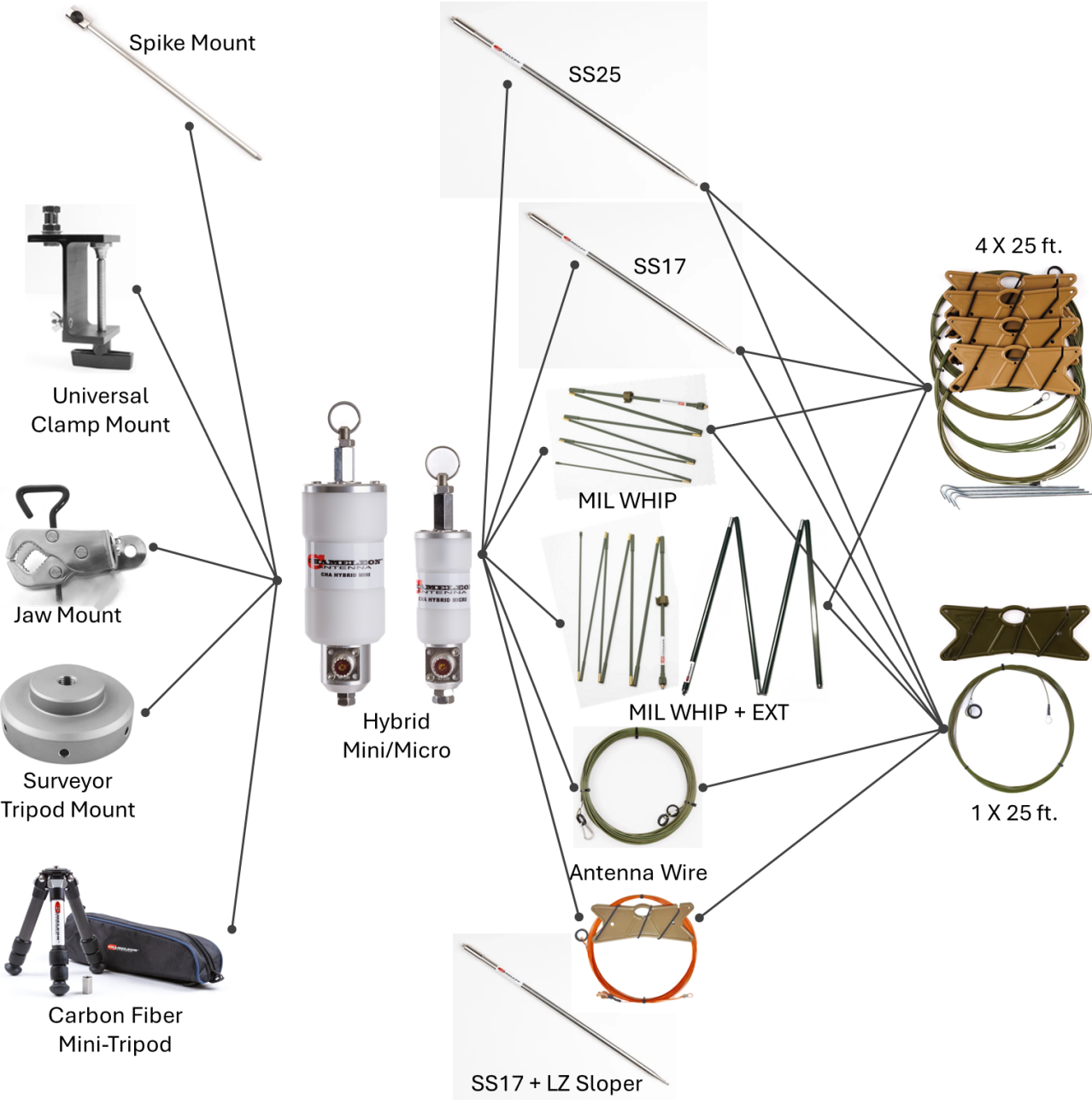
(Blank, SS17 + LZ Sloper + 1 X 25 ft Counterpoise)

The Basic Vertical (CHA BV) (LZ Sloper) with the Blank, SS17, LZ Sloper, and one 25 ft. counterpoise is the wire variant of the CHA BV. Using the SS17 with the LZ Sloper enables the CHA BV to become an effective EMCOMM antenna covering 80 – 30 meters. It doesn't require an antenna tuner or mast, is stealthy, portable, and can utilize NVIS propagation.



Pro Tip: Use the Universal Guy System (UGS) to reduce bending and swaying.

Hybrid Mini / Micro Based Configurations



CHA MPAS Lite

(Hybrid Micro, SS17 + 25 ft. Standard or Wheel Winder 34 ft. Counterpoise)

The Modular Portable Antenna System Lite (CHA MPAS Lite) with the Hybrid Micro, an SS17, and 25 ft. Counterpoise Wire is the standard lower power configuration. The ultimate in rapid deployment and recovery is attained by using the Wheel Winder 34 ft. Counterpoise. The MPAS Lite is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. Setup is fast, operation is easy, and both portability and performance are good - making this a great choice for portable operations, like POTA and SOTA.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW				DIGITAL			
100			25				25			
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)				EFFICIENCY HIGH BANDS (15, 12, 10)			
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



CHA MPAS Lite

(Hybrid Mini, SS17 + 25 ft. Standard or Wheel Winder 34 ft. Counterpoise)

The Modular Portable Antenna System Lite (CHA MPAS Lite) with the Hybrid Micro, an SS17, and a 25 ft. counterpoise wire is the standard higher power configuration. The ultimate in rapid deployment and recovery is attained by using the Wheel Winder 34 ft. Counterpoise. The MPAS Lite is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. Setup is fast, operation is easy, and both portability and performance are good - making this a great choice for portable operations, like POTA and SOTA.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW			DIGITAL				
500			100			40				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



CHA MPAS Lite

(Hybrid Micro, SS17 + 4 X 25 ft Counterpoise)

The Modular Portable Antenna System Lite (CHA MPAS Lite) with the Hybrid Mini, an SS17, and four 25 ft. counterpoise wires is the standard lower power configuration with the Counterpoise Kit for improved performance. The MPAS Lite is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. Setup and operation are easy and performance is good making this a great choice for portable operations, like POTA and SOTA.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW			DIGITAL				
100			25			25				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



Pro Tip: Add the LZ Sloper antenna wire to improve lower frequency performance.

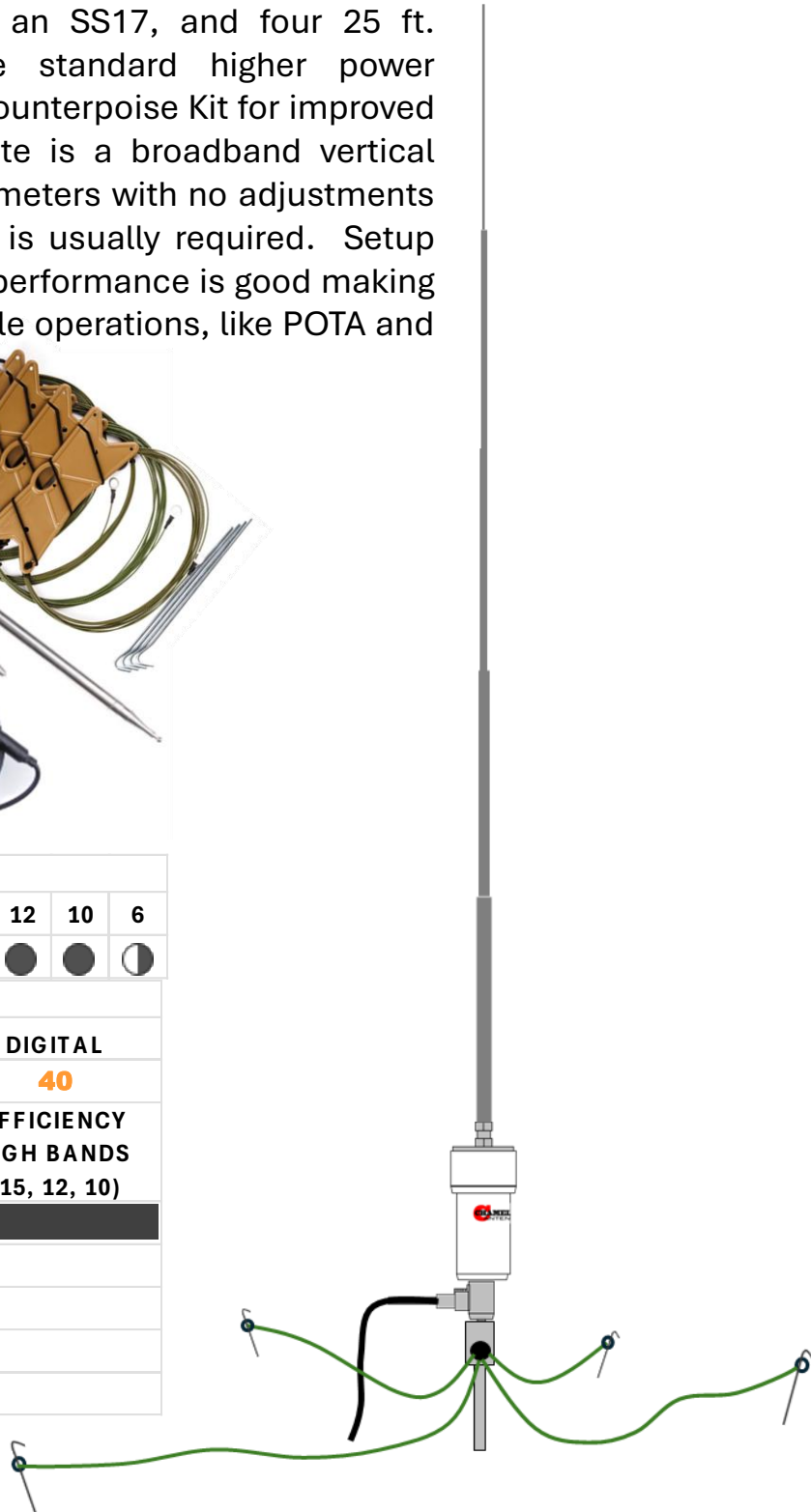
CHA MPAS Lite

(Hybrid Mini, SS17 + 4 X 25 ft Counterpoise)

The Modular Portable Antenna System Lite (CHA MPAS Lite) with the Hybrid Mini, an SS17, and four 25 ft. counterpoise wires is the standard higher power configuration, but with the Counterpoise Kit for improved performance. The MPAS Lite is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. Setup and operation are easy and performance is good making this a great choice for portable operations, like POTA and SOTA.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW				DIGITAL			
500			100				40			
EFFICIENCY			EFFICIENCY				EFFICIENCY			
LOW BANDS			MID BANDS				HIGH BANDS			
(80,60,40)			(30, 20, 17)				(15, 12, 10)			
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



Pro Tip: Add the LZ Sloper antenna wire to improve lower frequency performance.

CHA MPAS Lite

(Hybrid Micro, SS25 + Wheel Winder 34 ft Counterpoise)

The Hybrid Micro, an SS25, and a Wheel Winder 34 ft. counterpoise wire this the taller, lower power configuration of the Modular Portable Antenna System Lite (CHA MPAS Lite). The Wheel Winder 34 ft. Counterpoise provides ultimate in rapid deployment and recovery and the taller SS25 maximizes performance. The MPAS Lite is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. There is a beneficial tradeoff between better performance and less portability. Setup is still fast and operation is easy.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW				DIGITAL			
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)				EFFICIENCY HIGH BANDS (15, 12, 10)			
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



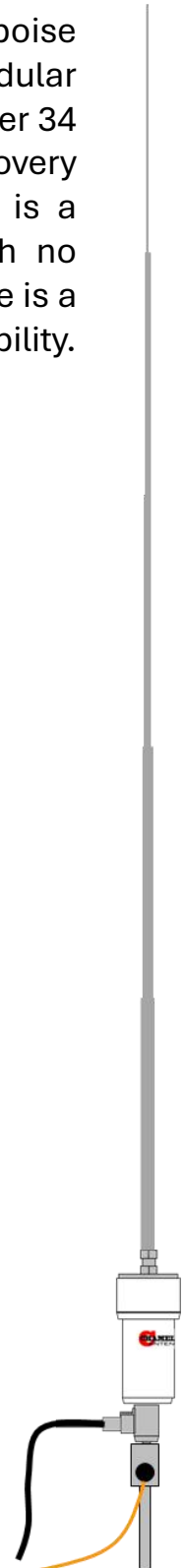
CHA MPAS Lite

(Hybrid Mini, SS25 + Wheel Winder 34 ft Counterpoise)

The Hybrid Mini, an SS25, and a Wheel Winder 34 ft. counterpoise wire this the taller, higher power configuration of the Modular Portable Antenna System Lite (CHA MPAS Lite). The Wheel Winder 34 ft. Counterpoise provides ultimate in rapid deployment and recovery and the taller SS25 maximizes performance. The MPAS Lite is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required There is a beneficial tradeoff between better performance and less portability. Setup is still fast and operation is easy.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB		CW			DIGITAL					
500		100			40					
EFFICIENCY LOW BANDS (80,60,40)		EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)					
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



CHA MPAS Lite

(Hybrid Micro, SS25 + 4 X 25 ft Counterpoise)

The Modular Portable Antenna System Lite (CHA MPAS Lite) with the Hybrid Micro, an SS25, and four 25 ft. counterpoise wires is the high performance, lower power configuration, with the taller SS25 and the Counterpoise Kit for improved performance. The MPAS Lite is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. Setup and operation are easy and performance is good making this a great choice for portable operations, like POTA.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW				DIGITAL			
100			25				25			
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)				EFFICIENCY HIGH BANDS (15, 12, 10)			
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



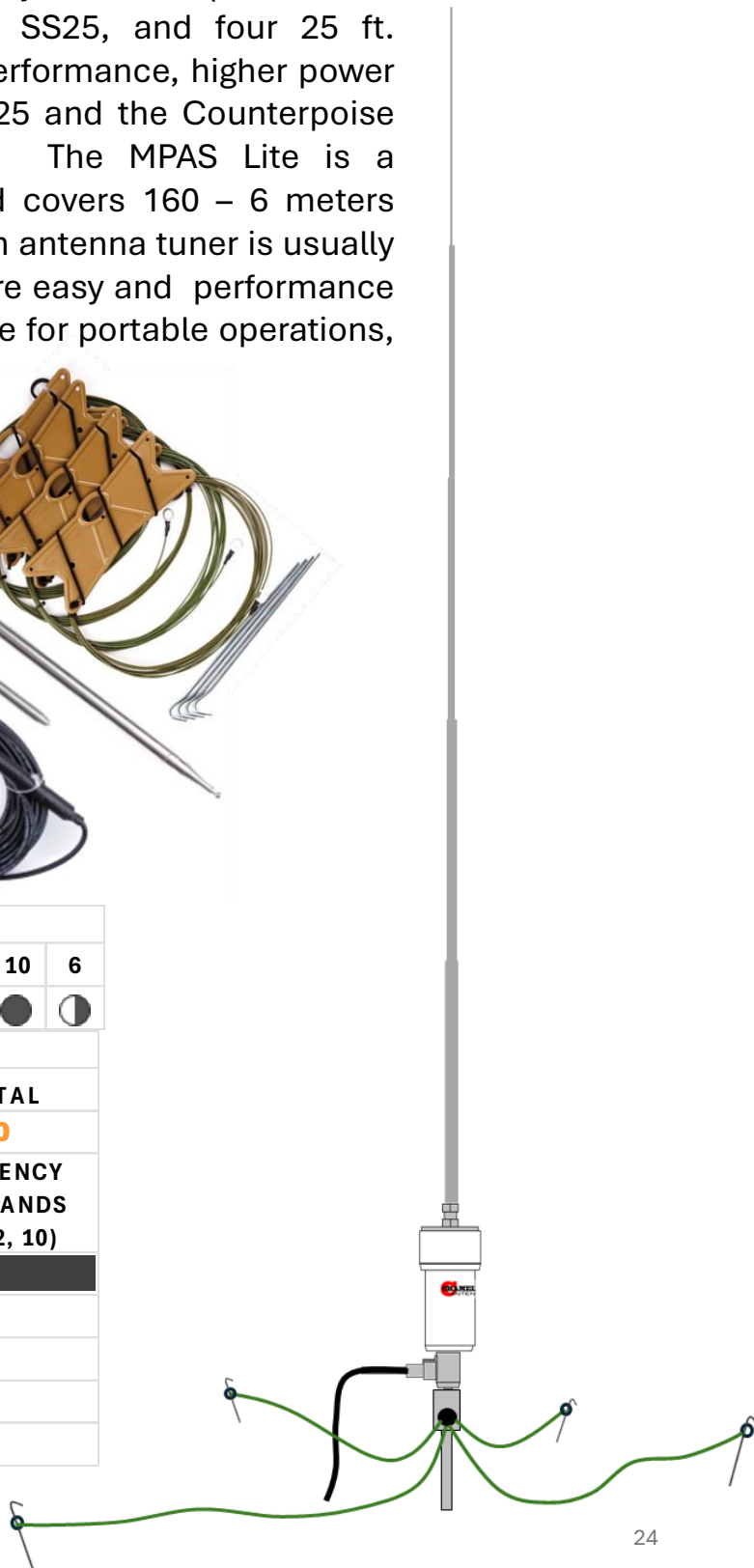
CHA MPAS Lite

(Hybrid Mini, SS25 + 4 X 25 ft Counterpoise)

The Modular Portable Antenna System Lite (CHA MPAS Lite) with the Hybrid Mini, an SS25, and four 25 ft. counterpoise wires is the high-performance, higher power configuration, with the taller SS25 and the Counterpoise Kit for improved performance. The MPAS Lite is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. Setup and operation are easy and performance is good making this a great choice for portable operations, like POTA.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW			DIGITAL				
500			100			40				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



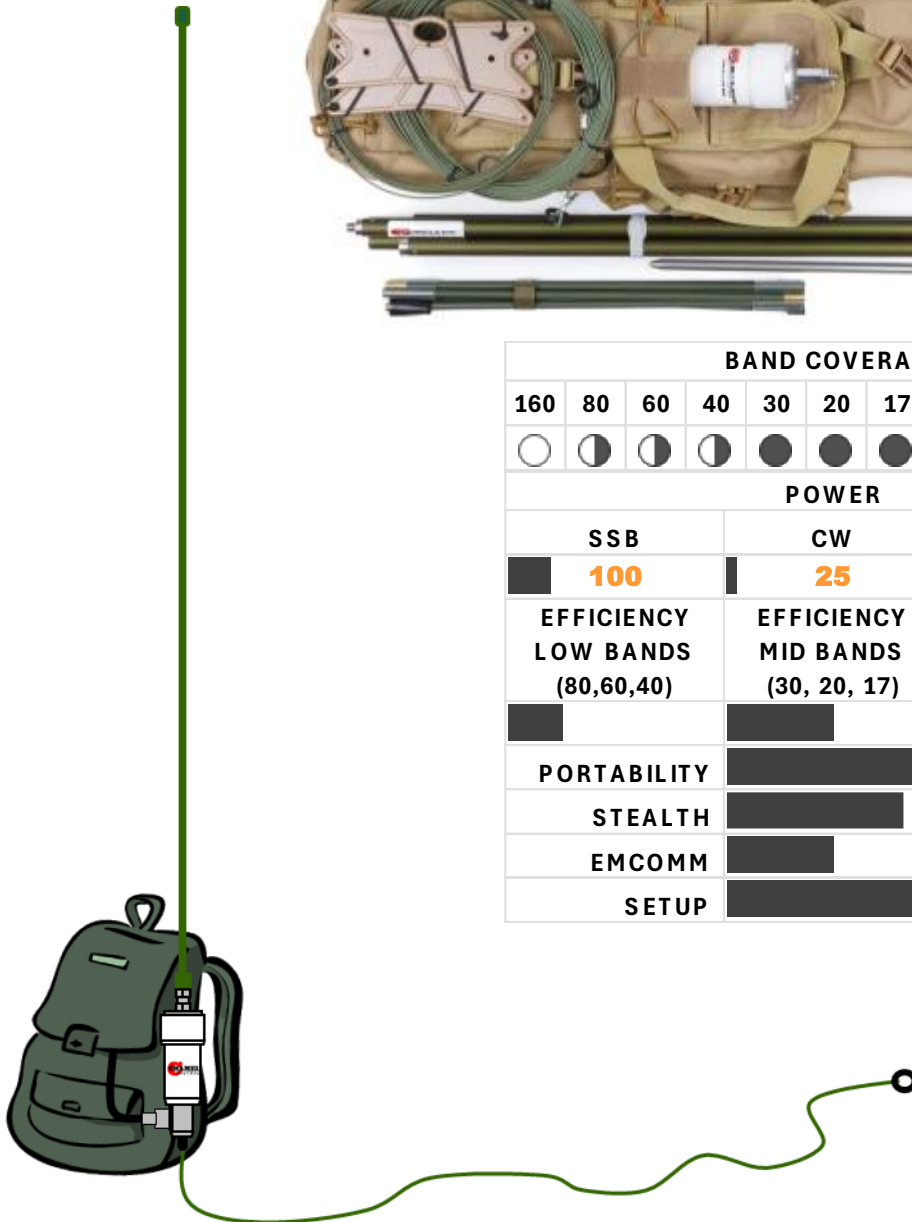
CHA MPAS 2.0

(Hybrid Micro, MIL WHIP + 1 X 25 ft Counterpoise)

The Modular Portable Antenna System 2.0 (CHA MPAS 2.0) using the Hybrid Micro, a MIL WHIP, and one 25 ft. counterpoise wire is the lower power man-packable configuration. The MPAS 2.0 is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. This configuration is man-packable, rapidly deployable, and stealthy for operations requiring these attributes.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW				DIGITAL			
100			25				25			
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)				EFFICIENCY HIGH BANDS (15, 12, 10)			
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



CHA MPAS 2.0

(Hybrid Mini, MIL WHIP + 1 X 25 ft Counterpoise)

The Modular Portable Antenna System 2.0 (CHA MPAS 2.0) using the Hybrid Mini, a MIL WHIP, and one 25 ft. counterpoise wire is the lower power man-packable configuration. The MPAS 2.0 is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. This configuration is man-packable, rapidly deployable, and stealthy for operations requiring these attributes.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW				DIGITAL			
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)				EFFICIENCY HIGH BANDS (15, 12, 10)			
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



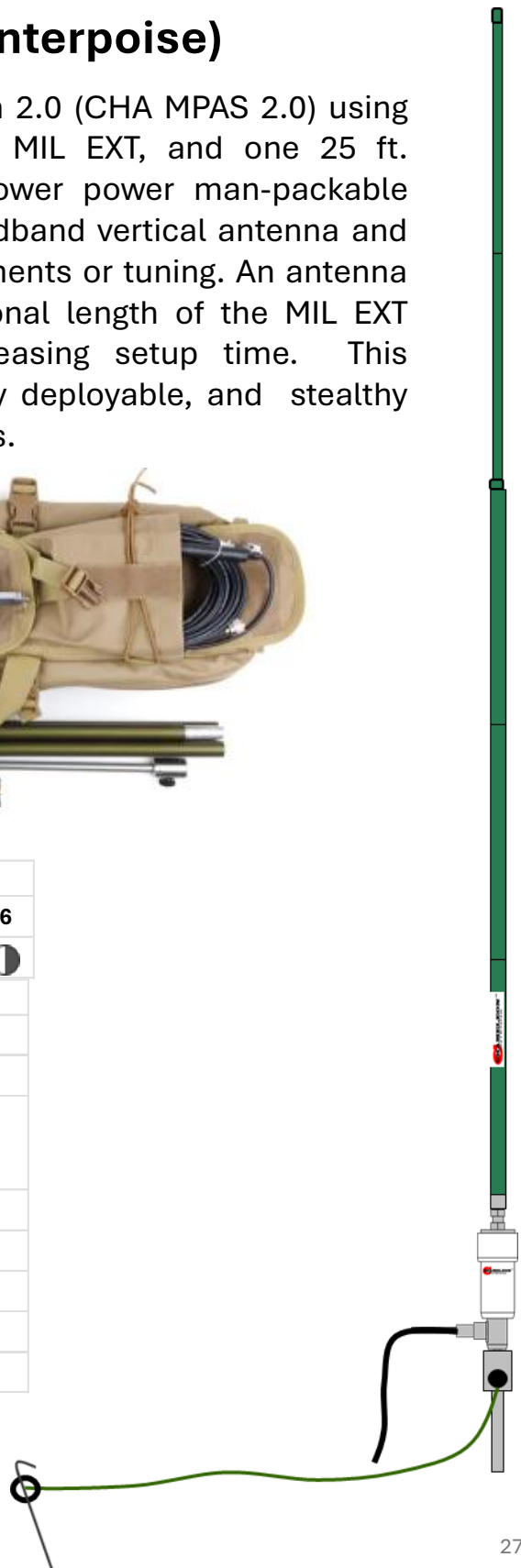
CHA MPAS 2.0

(Hybrid Micro, MIL WHIP & MIL EXT + 1 X 25 ft Counterpoise)

The Modular Portable Antenna System 2.0 (CHA MPAS 2.0) using the Hybrid Micro, a MIL WHIP and MIL EXT, and one 25 ft. counterpoise wire is the standard lower power man-packable configuration. The MPAS 2.0 is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. The additional length of the MIL EXT improves performance without increasing setup time. This configuration is man-packable, rapidly deployable, and stealthy for operations requiring these attributes.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW			DIGITAL				
100			25			25				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



CHA MPAS 2.0

(Hybrid Mini, MIL WHIP & MIL EXT + 1 X 25 ft Counterpoise)

The Modular Portable Antenna System 2.0 (CHA MPAS 2.0) using the Hybrid Mini, a MIL WHIP and MIL EXT, and one 25 ft. counterpoise wire is the standard higher power man-packable configuration. The MPAS 2.0 is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. The additional length of the MIL EXT improves performance without increasing setup time. This configuration is man-packable, rapidly deployable, and stealthy for operations requiring these attributes.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW				DIGITAL			
500			100				40			
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)				EFFICIENCY HIGH BANDS (15, 12, 10)			
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



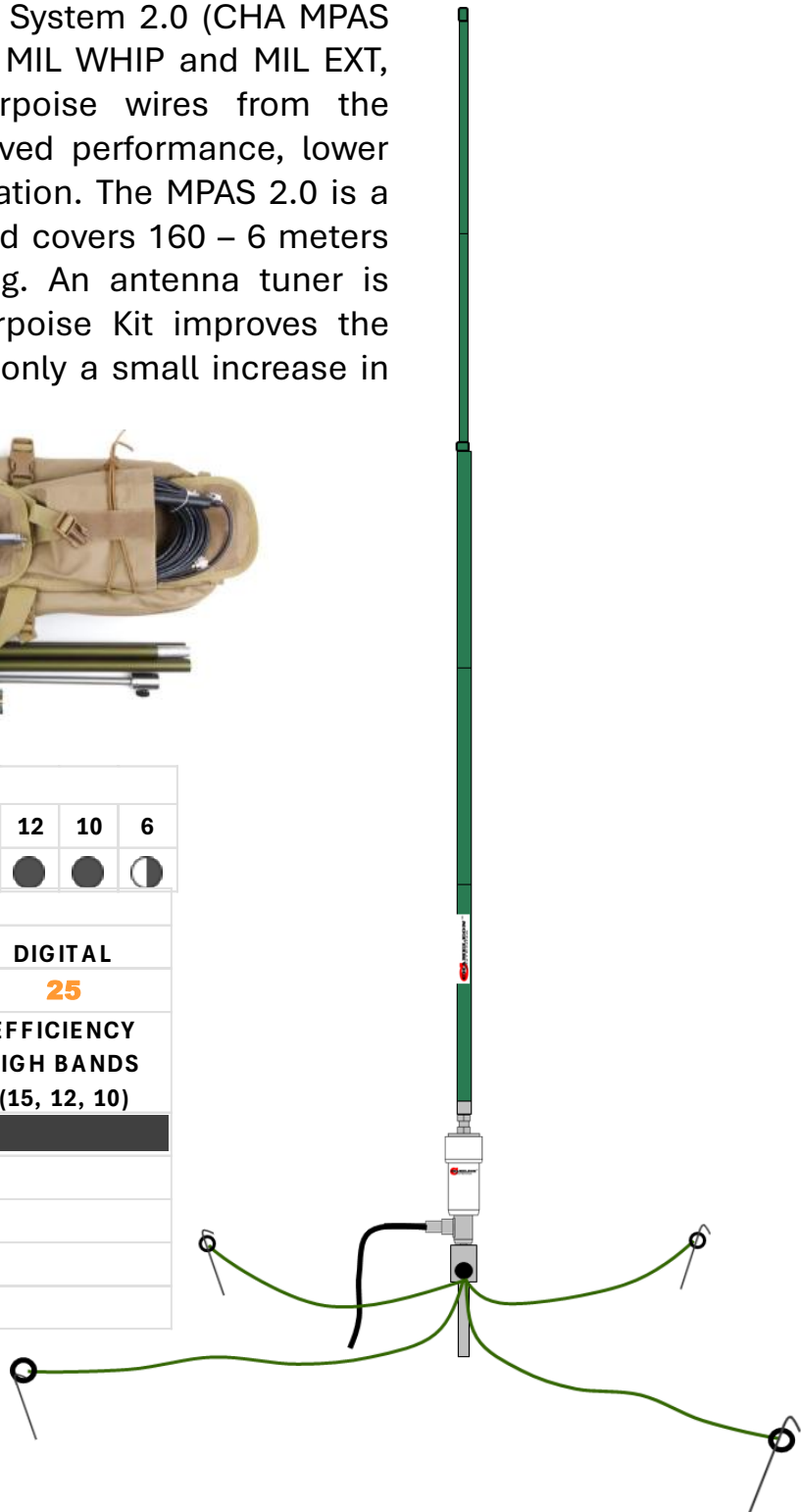
CHA MPAS 2.0

(Hybrid Micro, MIL WHIP & MIL EXT + 4 X 25 ft Counterpoise)

The Modular Portable Antenna System 2.0 (CHA MPAS 2.0) using the Hybrid Micro, a MIL WHIP and MIL EXT, and the four 25 ft. counterpoise wires from the Counterpoise Kit is the improved performance, lower power, man-packable configuration. The MPAS 2.0 is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. The Counterpoise Kit improves the efficiency of the antenna with only a small increase in setup time.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW			DIGITAL				
100			25			25				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



Pro Tip: Add a Capacity Hat between the MIL WHIP and MIL EXT to increase the efficiency of the antenna system.

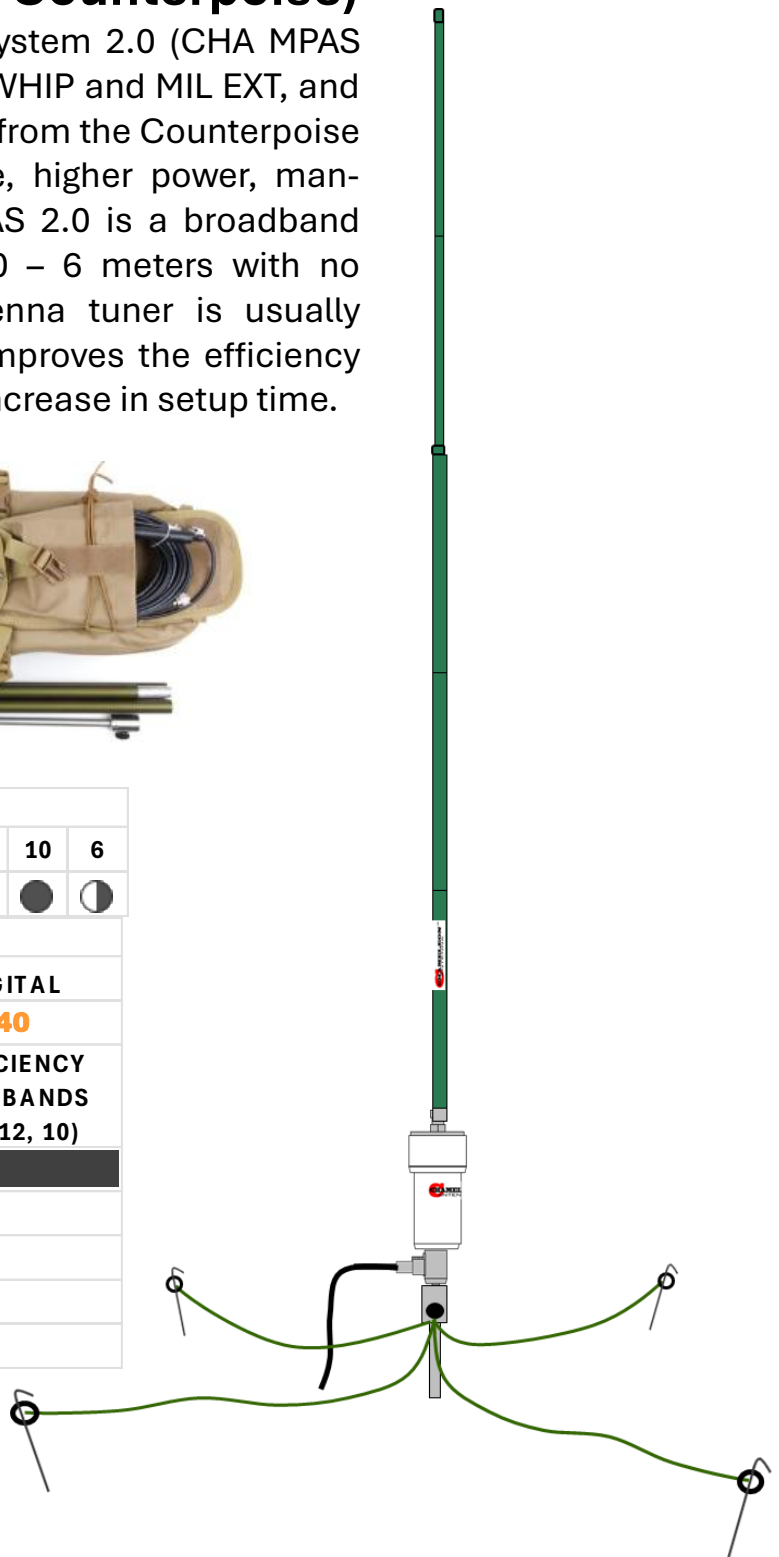
CHA MPAS 2.0

(Hybrid Mini, MIL WHIP & MIL EXT + 4 X 25 ft Counterpoise)

The Modular Portable Antenna System 2.0 (CHA MPAS 2.0) using the Hybrid Mini, a MIL WHIP and MIL EXT, and the four 25 ft. counterpoise wires from the Counterpoise Kit is the improved performance, higher power, man-packable configuration. The MPAS 2.0 is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. The Counterpoise Kit improves the efficiency of the antenna with only a small increase in setup time.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW			DIGITAL				
500			100			40				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										

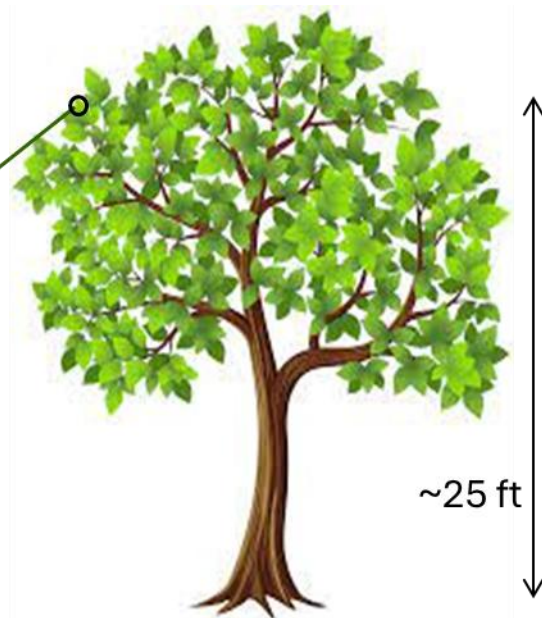
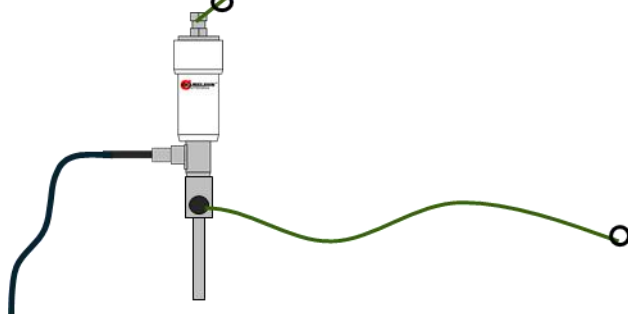


Pro Tip: Add a Capacity Hat between the MIL WHIP and MIL EXT to increase the efficiency of the antenna system.

CHA MPAS 2.0

(Hybrid Micro, Antenna Wire + 1 X 25 ft Counterpoise)

The Modular Portable Antenna System 2.0 (CHA MPAS 2.0) using the Hybrid Micro, a 60 ft. Antenna Wire, and a 25 ft. counterpoise wire is the lower power, long-distance, and Near Vertical Incident Skywave (NVIS) man-packable configuration. The MPAS 2.0 is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. The Antenna Wire improves lower frequency performance and can be setup in multiple stealthy configurations tailored to your communications requirements.



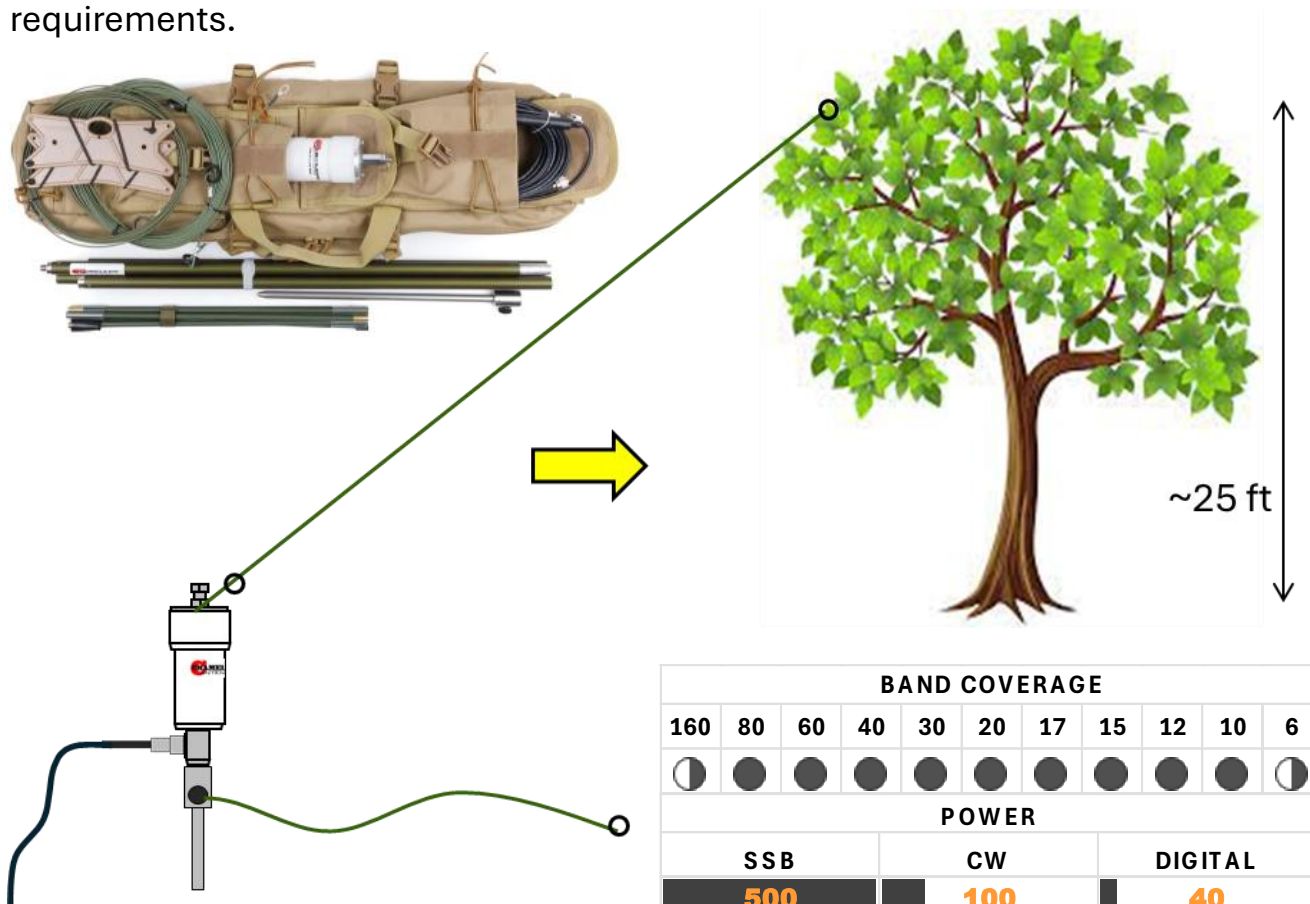
BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
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POWER										
SSB			CW			DIGITAL				
<div></div> 100			<div></div> 25			<div></div> 25				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
<div></div>			<div></div>			<div></div>				
PORTABILITY			<div></div>							
STEALTH			<div></div>							
EMCOMM			<div></div>							
SETUP			<div></div>							

Pro Tip: Use an Arborist Throw Bag to get the Antenna Wire over tree branches.

CHA MPAS 2.0

(Hybrid Mini, Antenna Wire + 1 X 25 ft Counterpoise)

The Modular Portable Antenna System 2.0 (CHA MPAS 2.0) using the Hybrid Mini, a 60 ft. Antenna Wire, and a 25 ft. counterpoise wire is the higher power, long-distance, and Near Vertical Incident Skywave (NVIS) man-packable configuration. The MPAS 2.0 is a broadband vertical antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. The Antenna Wire improves lower frequency performance and can be setup in multiple stealthy configurations tailored to your communications requirements.



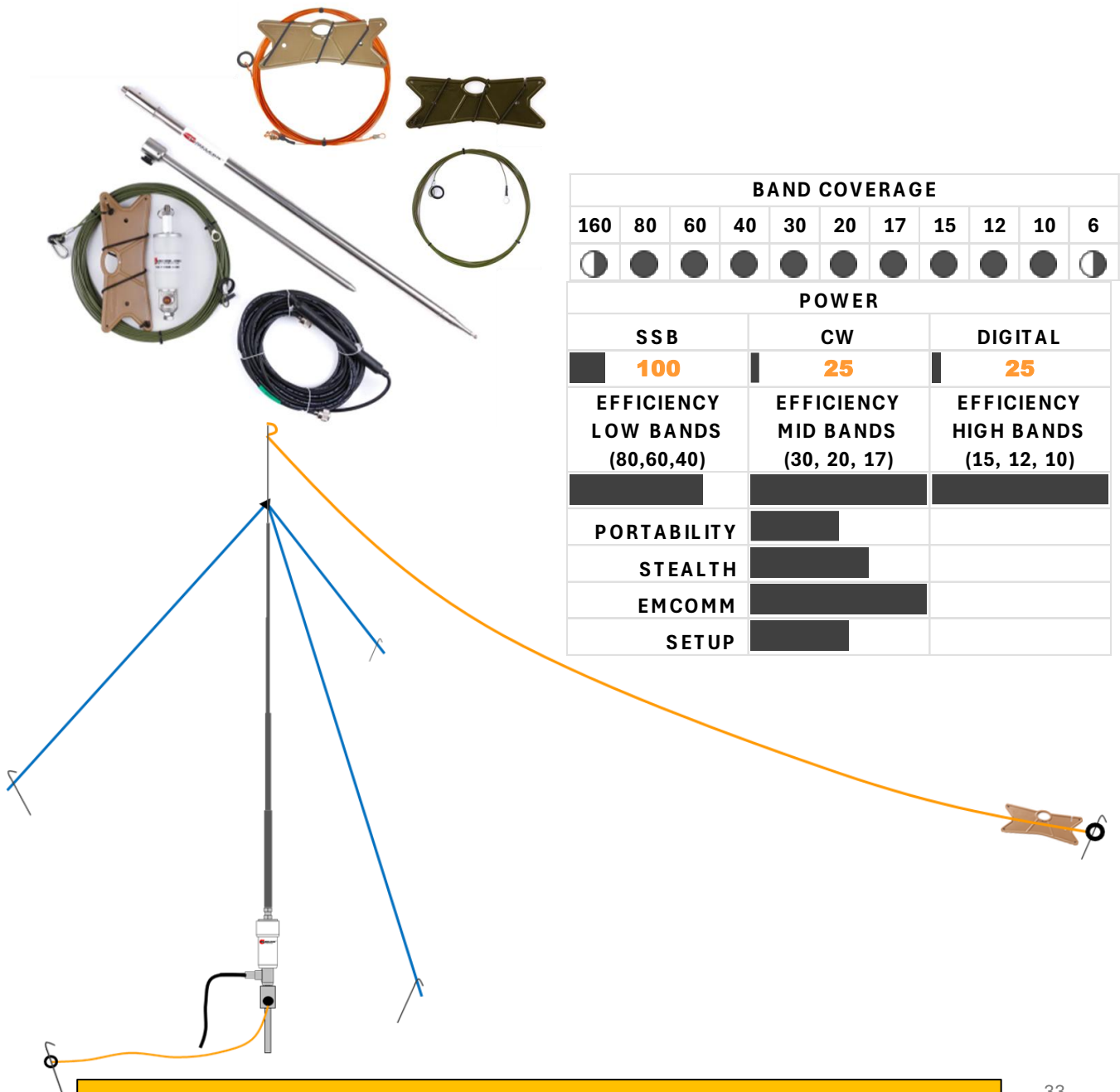
BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
POWER										
SSB			CW				DIGITAL			
500			100				40			
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)				EFFICIENCY HIGH BANDS (15, 12, 10)			
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										

Pro Tip: Use an Arborist Throw Bag to get the Antenna Wire over tree branches.

CHA MPAS Lite

(Hybrid Micro, SS17, LZ Sloper, and 1 X 25 ft Counterpoise)

The Modular Portable Antenna System (MPAS) Lite using the Hybrid Micro, an SS17, a LZ Sloper, and a 25 ft. counterpoise wire is the lower power, long-distance, and Near Vertical Incident Skywave (NVIS) configuration. The MPAS Lite is a broadband Inverted Lazy Sloper antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. The LZ Sloper improves lower frequency performance and does not require a mast.



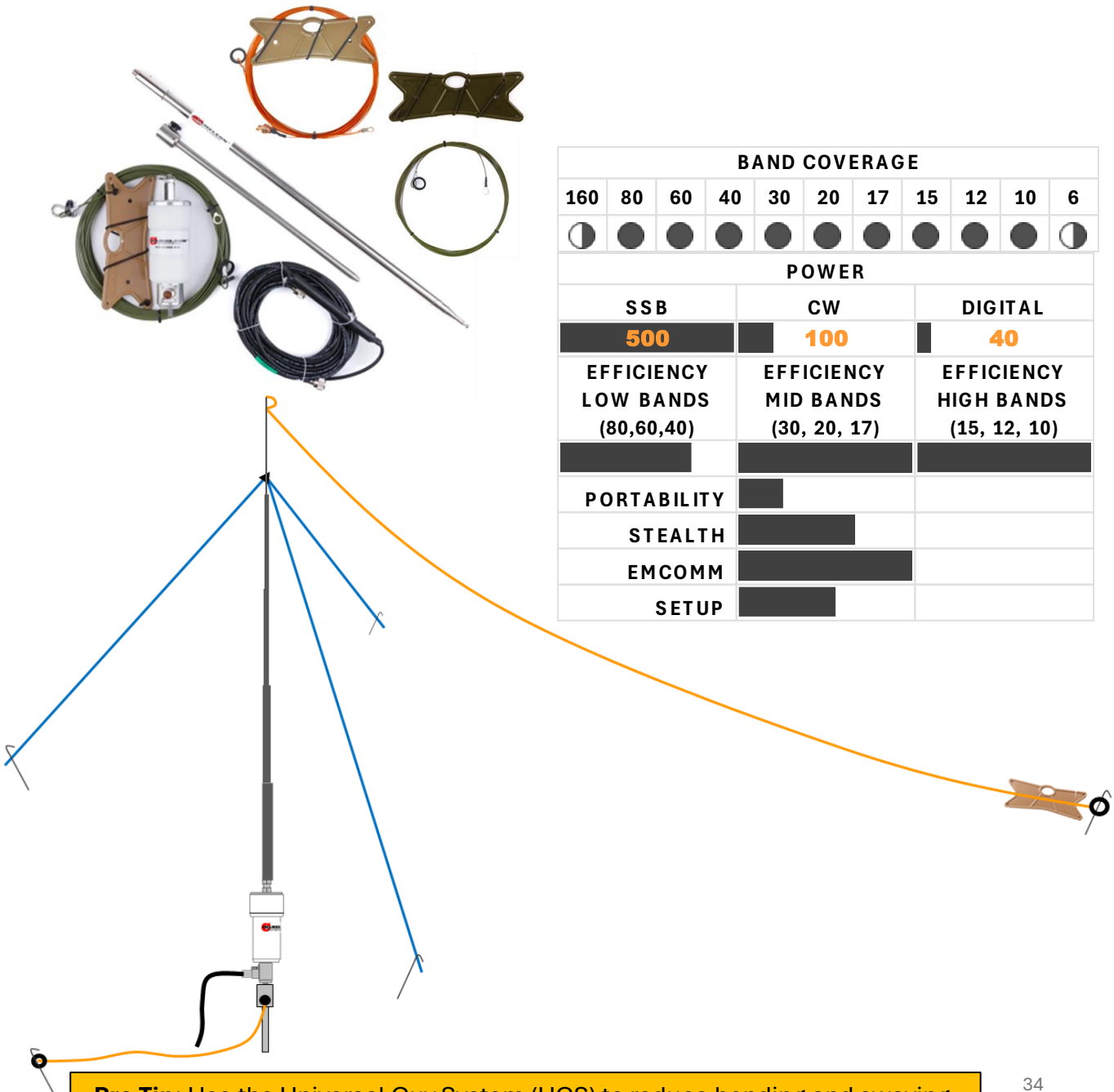
BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW			DIGITAL				
100			25			25				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										

Pro Tip: Use the Universal Guy System (UGS) to reduce bending and swaying.

CHA MPAS Lite

(Hybrid Mini, SS17, LZ Sloper, and 1 X 25 ft Counterpoise)

The Modular Portable Antenna System (MPAS) Lite using the Hybrid Micro, SS17, LZ Sloper, and a 25 ft. counterpoise wire is the higher power, long-distance, and Near Vertical Incident Skywave (NVIS) configuration. The MPAS Lite is a broadband Inverted Lazy Sloper antenna and covers 160 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. The LZ Sloper improves lower frequency performance and does not require a mast.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW			DIGITAL				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										

Pro Tip: Use the Universal Guy System (UGS) to reduce bending and swaying.

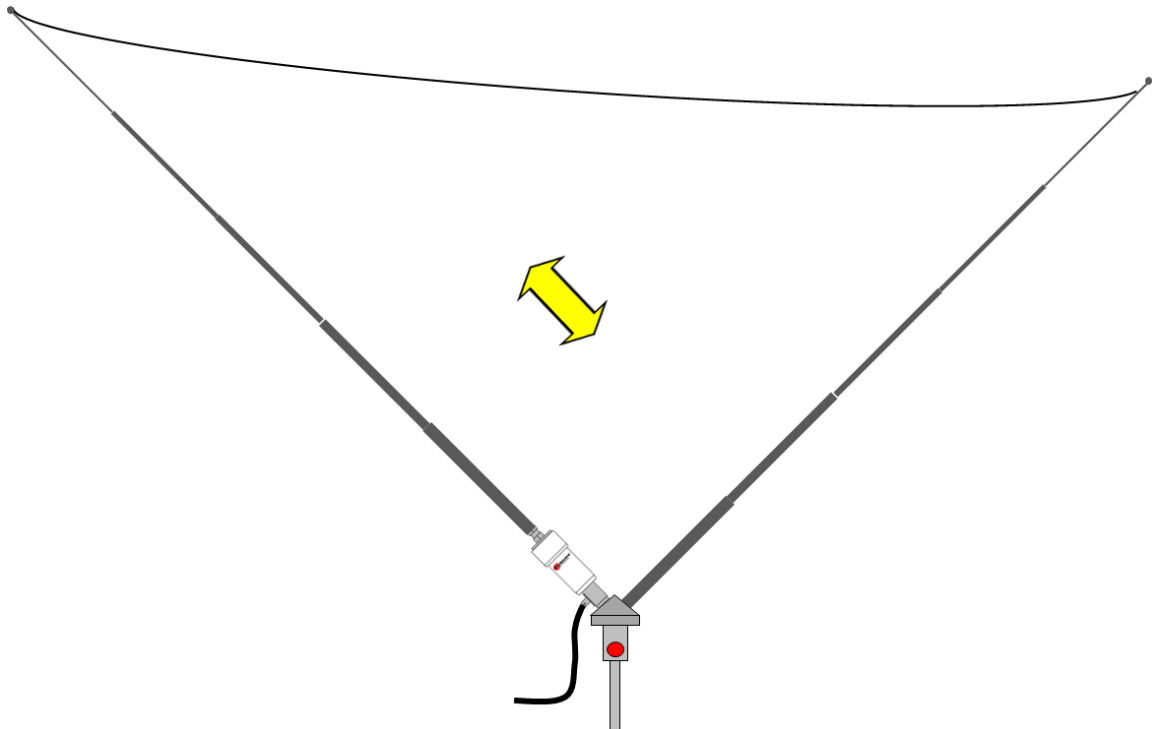
CHATDL

(Hybrid Micro, 2 X SS17, Hub, Loop Wire)

The Tactical Delta Loop (TDL) uses two SS17s, a Hub, and a Loop Wire to form a lower power, broadband, Inverted Delta Loop antenna. The TDL covers 80 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. The TDL is an efficient, low noise antenna that can use NVIS propagation on 10 MHz and below and communicate long-distance (DX) on 10 MHz and above.



BAND COVERAGE										
160	80	60	40	30	20	17	15	12	10	6
POWER										
SSB			CW			DIGITAL				
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)				
PORTABILITY										
STEALTH										
EMCOMM										
SETUP										



Pro Tip: Elevate the base of the TDL for improved performance.

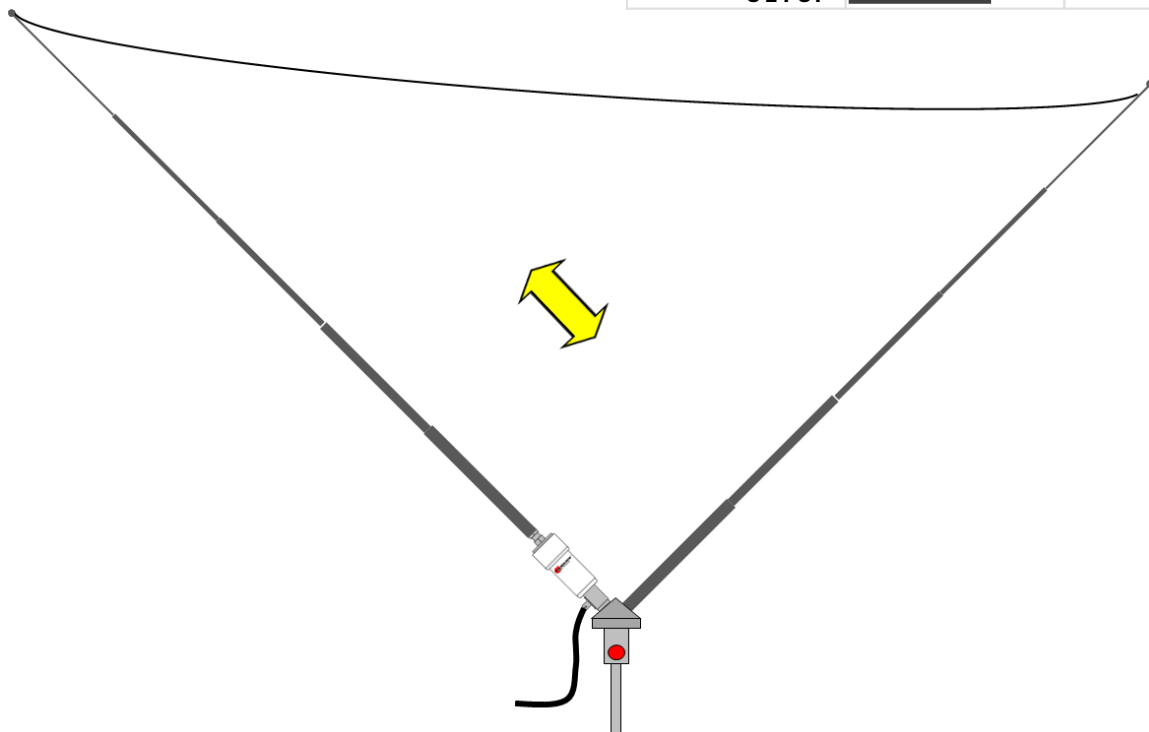
CHATDL

(Hybrid Mini, 2 X SS17, Hub, Loop Wire)

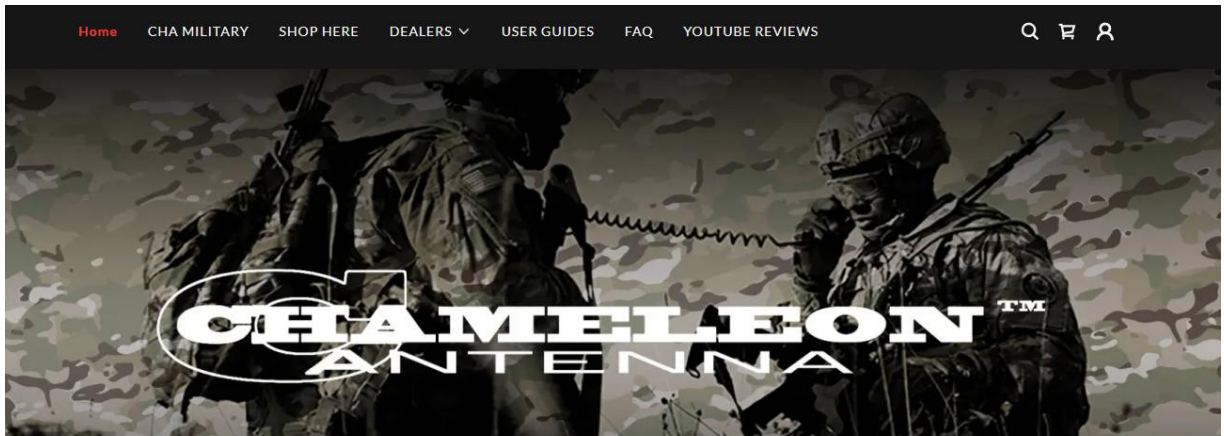
The Tactical Delta Loop (TDL) uses two SS17s, a Hub, and a Loop Wire to form a higher power, broadband, Inverted Delta Loop antenna. The TDL covers 80 – 6 meters with no adjustments or tuning. An antenna tuner is usually required. The TDL is an efficient, low noise antenna that can use NVIS propagation on 10 MHz and below and communicate long-distance (DX) on 10 MHz and above.



BAND COVERAGE											
160	80	60	40	30	20	17	15	12	10	6	
<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	
POWER											
SSB			CW			DIGITAL					
<div>500</div>			<div></div>	<div>100</div>			<div></div>	<div>40</div>			
EFFICIENCY LOW BANDS (80,60,40)			EFFICIENCY MID BANDS (30, 20, 17)			EFFICIENCY HIGH BANDS (15, 12, 10)					
<div></div>			<div></div>			<div></div>					
PORTABILITY			<div></div>								
STEALTH			<div></div>								
EMCOMM			<div></div>								
SETUP			<div></div>								



Pro Tip: Elevate the base of the TDL for improved performance.



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