

## HD Series Remote Tuned Shielded Magnetic SW Loop Antenna

Code: C-LOOP-HDREMSW1.8-6



### Description:

This is our Largest HD Series Shielded Magnetic Amplified Loop Antenna for Tropics Band reception featuring a remote controlled tuning system. Mount the Loop outdoors and remotely control the tuning with ease indoors beside your radio. Our unique Electrostatic Shielding ensures that you hear no out of band noise and interference. The High-Q tuning response gives a nice signal peak right on station, pushing off-frequency signals right down in level, reducing unwanted splatter from nearby stations and lowering the residual noise.

This Antenna is designed for direct connection to Radio Receivers that have available external Antenna and Ground connections, including Amateur and Professional Receivers and can be supplied with a variety of cable & connector types to suit your radio systems needs.

### Specifications:

- Frequency coverage – 1.8 – 6MHz (160m to 49m)
- High stability, voltage and temperature compensated tuning system.
- Dimensions – 40cm / 16" diameter antenna made from 32mm IP56 Rated UV Stabilized PVC Tube
- Marine Grade Aluminium L-Mount bracket pre-drilled for 2 x U-Bolts ( not supplied )
- High performance low noise pre-amplifier with diode protection.
- Versatile power requirements and low power consumption. (<50mA@13.8v DC)
- Our products are proudly designed and manufactured in Australia.

### Supplied accessories:-

- 1x Loop Antenna and instructions
- 1x Control Box, with Manual Tuning control
- 1x 1.5m DC Power Lead with 2.5mm EIAJ Connector to open ends
- 1x Australian 240 volts AC to 12 volts DC Plug Pack (Australian & NZ Customers Only)
- 2x 10m BNC / F to BNC / F cables to connect Loop to Control Box.
- 1x BNC to BNC cable 2m
- 1x L-Mounting bracket including 4x Screws to mount to loop base.

### Available Options:-

- Dual isolated outputs with for simultaneous connection to two receivers.
- Internal twin 9volt Battery holder (batteries not included)
- BNC to PL-259 Connector Cable for connection to your radio 1.5m
- BNC to open ends cable 1.5m
- BNC Connector to RCA / 3.5mm phono jack cable 1.5m
- Fused Cigarette Lighter power lead
- Tuning Presets for 2-4 stations
- Custom made control systems and cable sets.
- CoaxSeal for waterproofing outdoor connectors once they are plugged in.
- Light Duty Antenna Rotator and Control Box

**Note:** Shortwave reception is subject to the effects of signal propagation, choice of frequency for the time of day and is greatly influenced by local interference from Electronic and Electrical Appliances.

# PK's Loop Antennas ABN 76 271 051 082

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### Operation:

1. Carefully connect the long BNC Cables marked "Tune" and "Out/Pwr" to the matching connectors on the Loop Antenna and the Control box. Note: If these cables are inadvertently swapped over, no damage should occur; the antenna will simply not function, however it's best to not to swap them.
2. **Wrap the outdoor connectors with CoaxSeal, failure to do this will result in water ingress and corrosion, which will shorten the life of your Loop Antenna.**
3. Connect your Receiver to the BNC connector marked "RADIO" on the control box.  
**Warning: NEVER connect your receiver to the Loop/Power connector on the control box as there is DC voltage present and you will cause damage.**
4. Insert the Power Lead connector into the DC Jack on the rear of the Control box and apply power.
5. Tune your radio to the desired stations frequency that is within the tuning range of the antenna.
6. Slowly turn the Manual Tune control to the point of strongest reception.
7. Orientate the Loop Antenna to obtain the clearest reception, noting that the two nulls in the antenna pattern can be used to minimize interference and QRM.



Customized control boxes

### Notes:

- 1/ Customised control boxes vary from the above pictures as this is dependant on ordered options.
- 2/ Loops maybe UV Stabilized Grey or Black, depending on available materials at the time of construction, there is no difference in performance or weather proof characteristics.
- 3/ To obtain the best results always use good quality coaxial cables, as some cables have poor screening and unwanted signals may be picked up by the cable. – Recommend RG-6Quad Shield
- 4/ DC operation will give the best signal to noise performance of your receiver and the loop system.

Please enjoy listening to the bands using your new Remotely Tuned Loop Antenna !

Regards

Paul Karlstrand

PK's Loop Antennas

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