



POTABEAM
PORTABLE HEXBEAM

Hexbeam Broadband Antenna

Quick Start Guide

What is included:

- a. DX-75+ Hexbeam Hub with 1" hub insert/spacer
- b. 6ea telescopic fiberglass Spreader Arm sets with wire clasp tips
- c. Assembled antenna wire with insulated Dacron cord spacers coated in marine grade polyolefin polymer
- d. Dacron cord with looped ends for spacer arms
- e. Nylon spreader arm case and Hub drawstring bag



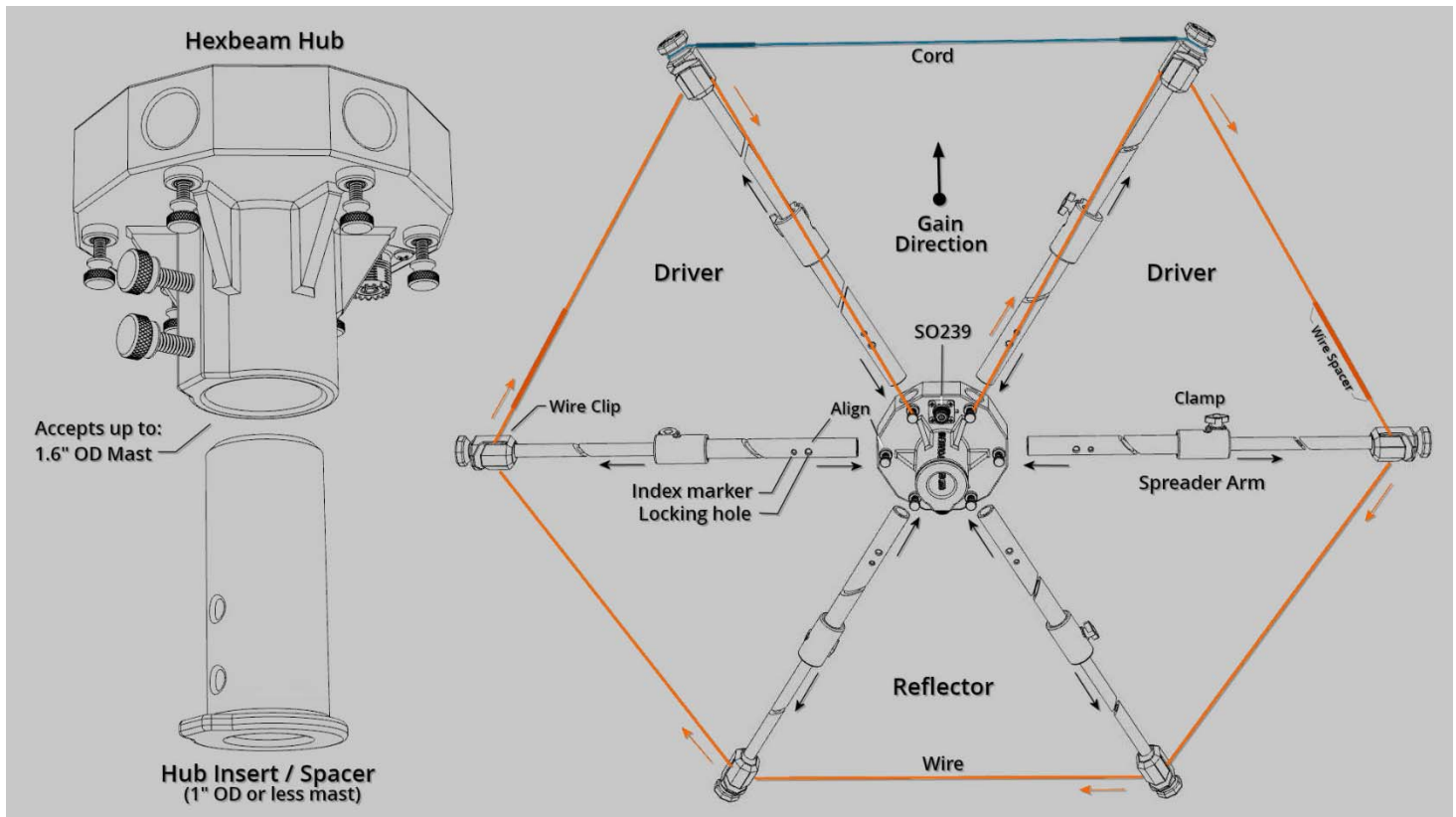
* Included Components

STEP 1 - Mounting Hexbeam Hub to Mast

- A. Determine mast outside diameter, if one inch or smaller use Hub Insert/Spacer. If larger than one inch remove the Hub Insert.
- B. Loosen the two ¼" - 20 stainless-steel mast thumbscrews so that bolts do not extend into the mast opening.
- C. Slide the Hexbeam Hub onto the mast with the hub's coax connector facing downward towards the ground and tighten the stainless-steel mast thumbscrews to secure the hub to the mast



Sketch 1:



Quick Start Guide Continued...

Step 2 – Attach Spreader Arm sets to Hexbeam Hub (Refer to Sketch 1)

- A. Loosen all six 8/32" thumbscrews until the bolts no longer protrude into the hub's spreader arm socket.
- B. Insert the spreader arms into the hub's spreader arm socket one at a time.
- C. Align the "Index Marker" on the spreader arm with the corresponding 8/32 thumbscrew on the hub.
- D. Hand tighten the corresponding thumbscrew fully.



Step 3 – Extending the Spreader Arms (Refer to Sketch 1)

- A. Loosen the Spreader Arm Clamp turn key (rotate left).
- B. Extend the smaller 1/2"OD fiberglass telescopic tube outward from the larger 3/4"OD fiberglass tube until you see a silver line on the smaller tube. Align the silver index line with the end of the larger tube.
- C. Ensure the wire clip on the tip is facing groundward and tighten the Spreader Arm Clamp turn key.
- D. Repeat items A-C on remaining spreader arms.



Quick Start Guide Continued...

Step 4 – Installing Antenna Wire and Cord

- A. Loosen one of the hub's antenna wire connectors (see Sketch 1) found on either side of the SO239 coax connector.
- B. Attach one end of the wire's U-shaped connector and tighten the wire connector terminal.
- C. Route Wire as shown in "Sketch 1" attaching the wire into each arm tip's Wire Clips.
- D. Attach the end U-shaped connector to the other corresponding wire connector terminal and tighten.
- E. Attach Cord in location as shown in "Sketch 1" by looping the ends over the tip of the spreader arms.



Step 5 – Final Step!

- A. Attach coax cable to the hub's SO239 connector and secure coax to mast pole for strain relief.
- B. Raise the antenna, recommended height is one-half to one wavelength (16.5'-33') above ground; although, the antenna performs surprisingly well even at low heights.
- C. Connect a transceiver and confirm the Standing Wave Ratio (SWR) is within tolerance (<2.0) on your chosen operating frequency.



Note: Exercise extreme caution when erecting an antenna near powerlines. Ensure there is no possibility of the antenna or mast coming in contact with high energy power sources. Never attempt to setup an antenna during a rain or lightning storm.

Specifications:

| | |
|-------------------------------------|---|
| Gain | 5.5 – 10.2 dBi (varies by frequency) |
| Front-to-Back Ratio | 12 – 20 dB (varies by frequency) |
| Weight | 7.1 Pounds |
| Turning Radius | 5.5 Feet |
| Diameter | 11.1 Feet |
| Bandwidth | 3 MHz (without a tuner) |
| Resonant Frequency Range (<2.0 SWR) | 26.8 MHz through 29.8 MHz |
| Coax Connector | SO-259 Female (PL-259 Male) |
| Antenna Wire | 14-AWG (19 strands of 27 AWG solid copper wire with relaxed PVC insulation) |
| Power Handling | 1.6 KW |

30 Day Return Policy:

You may return this product for any reason in unused condition in its original packaging for a full refund minus a 15% restocking fee within 30 days from date-of-purchase. Contact Support@Eckles.net for product return instructions.

Limited Warranty:

ENS | Eckles Network Services warrants to the original owner this product shall be free from defects in material and workmanship affecting operation for a period of 12 months from date-of-purchase. ENS agrees to repair or replace in whole or part any defective product or subcomponent at its sole discretion at no cost to the Buyer. Warranty Exclusions (i) ordinary wear and tear by Buyer; (ii) Buyer's non-observance of installation, operating, and/or maintenance written instructions; (iii) Buyer's abuse, improper use, or neglect of Goods and Services; (iv) unauthorized modifications made to Goods and Services by Buyer (v) Minor cosmetic blemishes or material color variations.

Making a warranty claim:

1. Document the issue by taking photos of the defect
2. Email Support@Eckles.net with a description of the issue and the following if available:
 - a. Proof of Purchase (sales receipt for the product)
 - b. Photo showing the defect
 - c. Your name and current shipping address

Under no circumstances shall Eckles Network Services be liable for consequential damages to persons or property by the use of any ENS products. This warranty is given in lieu of any other warranty expressed or implied.

Out-of-Warranty replacement parts may be purchased at discount by the original Buyer, contact Support@Eckles.net for service.

Thank you for purchasing an ENS antenna product, your complete satisfaction is our main goal. Please contact us at Support@Eckles.net if you have any questions or require assistance with your product. If you have recommendations for improvement or would like to share a comments or photos of your experience, we would truly appreciate hearing from you.