

TECHNICAL ASSISTANCE

If you have difficulty or need additional information please feel free to contact us. Most installation questions can be handled via email or phone call.

***Contact Information:***

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**Dunestar**

OTHER PRODUCTS

Dunestar manufactures several types of RF filters, remote antenna selectors, antenna coupling devices and accessories. Please contact us for further information.

***the K6KV***  
**HF Triplexer**  
**Model 333**  
**20 , 15, and 10M**

**Dunestar**

*the K6KV*  
**Model 333**  
**HF Triplexer**  
**20,15, & 10M**



*Thank you for choosing the Dunestar Model 333 Triplexer.*

With just a few easy steps you can be enjoying the advantage of having 3 transceivers sharing a single triband yagi, trap vertical or trap dipole antenna.

The 333 is based on the work of Gary Gordon, K6KV as presented in the June 2010 QST Magazine article “**HF Yagi Triplexer Especially for ARRL Field Day**”.

*Applications range* from Field Day, to Emergencies, to contesting, to DXpeditions. The Triplexer effectively makes one tower and a tribander into 3-towers and 3-yagis, while adding only a 3x5x7 inch aluminum box, weighing less than 2 pounds, to your equipment list. Works well with trap Dipoles and Verticals too.

Eases transportation requirements. Reduces set up and installation time with fewer personnel needed to get the job done.

## **CAUTION:**

EACH INPUT **MUST HAVE** A BANDPASS FILTER  
IN LINE BETWEEN THE TRANSCEIVER AND  
THE TRIPLEXER TO PROVIDE  
ADEQUATE PROTECTION.  
FAILURE TO HAVE BANDPASS FILTERS **AND**  
TRIPLEXER IN LINE **WILL RESULT IN**  
DAMAGE TO YOUR TRANSCEIVER.

### *INSTALLATION:*

The Triplexer is a decoupling network that interfaces between bandpass filter outputs and the trap tribander making it safe and effective to use all 3 bands simultaneously. The combined isolation of the Triplexer and the bandpass filters is about 50db, which will handle a 100W transceiver comfortably.

Installation is straight forward. The Triplexer has inputs for 20, 15, & 10M bandpass filters. Connections can be made using the UHF-type double male connector or short coax jumpers between the BPF outputs and inputs on the Triplexer. See photo below. A small piece of aluminum sheet or plywood, 8 by 12.5 inches makes a nice mounting plate for the Triplexer and filters.

Your transceiver outputs attach to the bandpass filter inputs. The Dunestar Model's 300-14, 300-21 and 300-28 BPF's are recommended.

The antenna output feeds the combined transceiver signals to your tribander or trap antenna. The Triplexer is pretuned before it leaves the factory, so no field adjustments are needed. Basic Plug & Play

### *Initial Testing:*

Lower your output power settings to minimum (5-10W), key up each transceiver individually, and tune across the other 2-bands to see if you have any cross interference. If all is clear, you can increase power and go to normal operation.

### *Specifications:*

Input and outputs: 50-ohms nominal  
Insertion loss: 0.3-0.4 db typical  
Attenuation to adjacent band: typically 12 dB in addition to that of the bandpass filters”  
Power: 200W PEP intermittent  
Connectors: UHF type  
Dimensions: HWD 3 x 5 (+ 1-In flange) x 7 inches  
Weight: 1 lb, 5 oz

