TECHNICAL ASSISTANCE:

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

Contact Information:

Phone: 503-397-2918

Email: sales@dunestar.com

Web Page: www.dunestar.com

U.S. Mail: Dunestar Systems
P.O. Box 37
St. Helens, OR 97051

OTHER PRODUCTS:

Dunestar manufactures several types of RF filters, portable antennas, switching devices and accessories. Please contact us for further information.

DUNESTAR

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the K6KV

HF Triplexer

Model 333 v2

40M, 80M, and 160M

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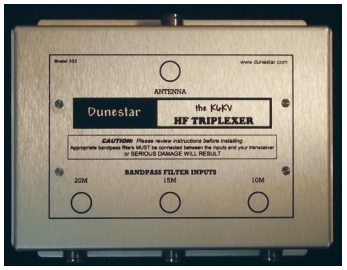


Thank you for choosing the Dunestar Model 333 v2 Triplexer.

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.

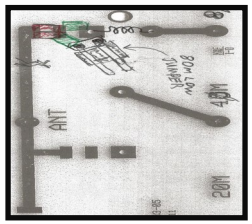
The M333 is based on the work of Gary Gordon, K6KV as presented in the June 2010 QST Magazine article "**HF Yagi Triplexer Especially for ARRL Field Day**".

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 personel 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.



80M is quite a wide band making it difficult to cover the entire band with band tune in one segment. Since contests are run as phone/CW/RTTY, we have added a small jumper clip to change the total capacitance. With the clip on both pins, 80M is low (CW & RTTY. Set off on a single pin is 80M high (for phone) See picture.

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 40, 80, and 160M 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. It also helps protect the connectors from accidental bending or breakage.

Your transceiver outputs attach to the bandpass filter inputs.The Dunestar Model's 300-7, 300-4 and 300-2 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
Dimentions: HWD 3 x 5 (+ 1-In flange) x 7 inches