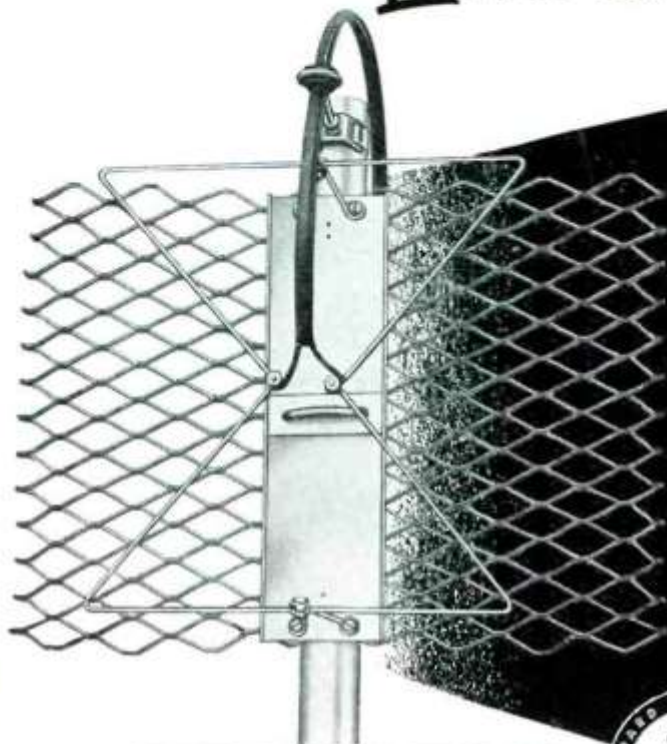


**another original!**

*Entirely New!*



The last word in

**UHF**  
*TV Antennas*  
the  
**UW-2**



Here's The One They've All Copied!



**...NOW**  
**AT NEW**  
**LOW PRICES**

**UHF**  
*TV Antennas*  
**MODEL U-4**

A superb quality UHF antenna featuring uniform gain with low vertical radiation (no ghosts), 300 ohm terminal impedance... measures 12x12x13 inches.

Here is another ORIGINAL... entirely NEW UHF TV antenna that far excels anything yet seen! It is a completely balanced broad band antenna covering ALL channels from 14 to 82 and terminating in 300 ohms with a very low voltage standing wave ratio! Some of the features include:

- Minimum wind resistance, (a double stacked UW-2 offers less wind resistance than many single bay antennas).
- The UW-2 assumes NO potential difference between itself and the mast, allowing MAXIMUM lightning protection when the mast is grounded.
- COMPLETELY FREE of insulators and their offending results.
- Excellent directivity, single lobe horizontal field pattern, 470 to 850 M.C.



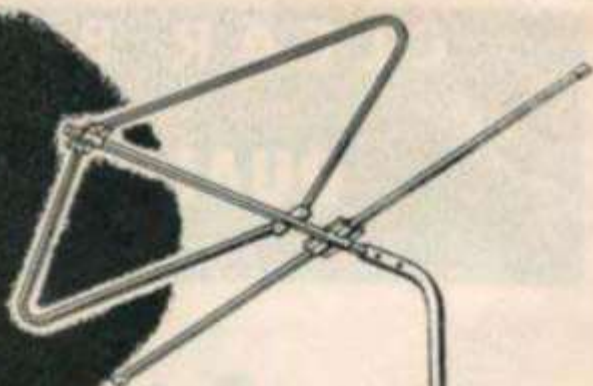
SUBSIDIARY OF



**THE RADIART CORPORATION** CLEVELAND 13, OHIO

VIBRATORS • AUTO AERIALS • TV ANTENNAS • ROTORS • POWER SUPPLIES

**now-**  
**GET GREATER TV**  
**ENJOYMENT WITH THE NEW**  
**Clear Beam**  
**"TRAILER**  
**-Tenna!"**



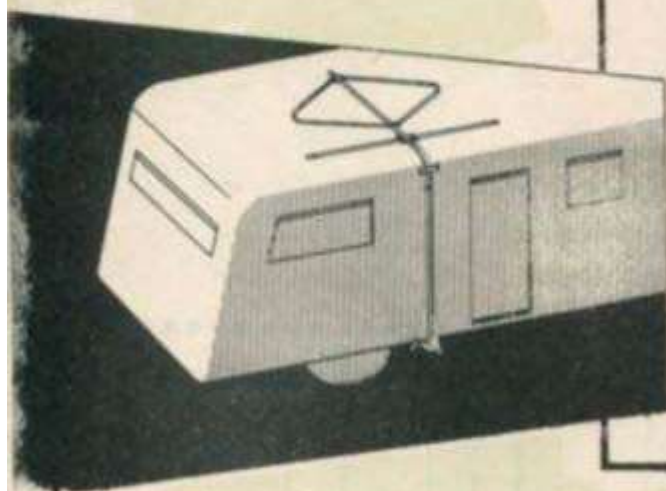
**SPECIFICALLY DESIGNED FOR MOBILE HOMES**

**RAISES FOR RECEPTION**  
**LOWERS FOR TRAVEL**

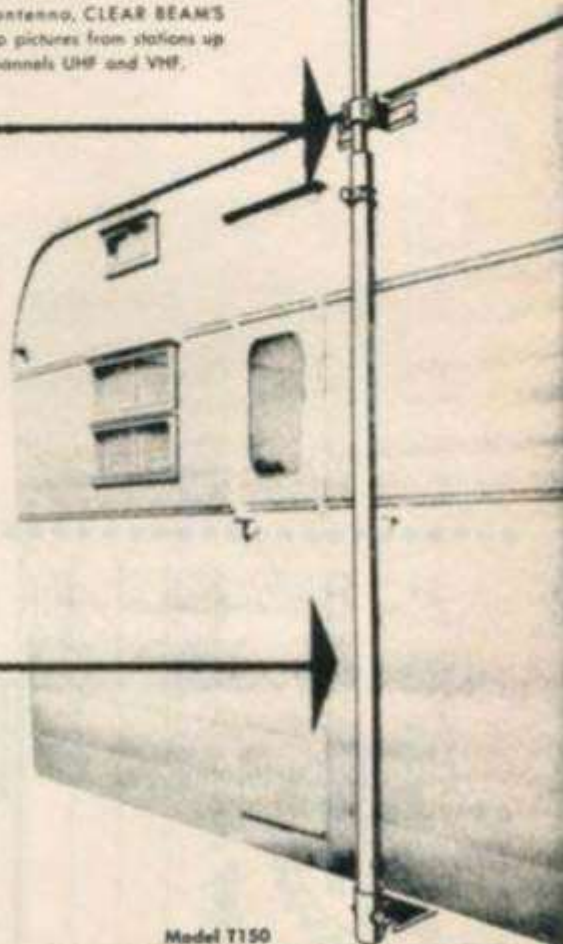
CLEAR BEAM'S Trailer-Tenna is always ready for use. Eliminates the need for installing an antenna each time trailer is parked and troublesome dismantling for traveling. The Trailer-Tenna offers a permanent installation which raises simply and easily for reception, and lowers for travel. Truly a "Mobile" antenna for the "Mobile" Home.

**PERFECT RECEPTION ANYWHERE**

Featuring a RHOMBIC type antenna, CLEAR BEAM'S Trailer-Tenna receives clear sharp pictures from stations up to 100 miles away. Covers all channels UHF and VHF.



Custom  
 Engineered  
 for  
 Luxury  
 Trailer  
 Living



**INSTALLS ON ANY TRAILER**

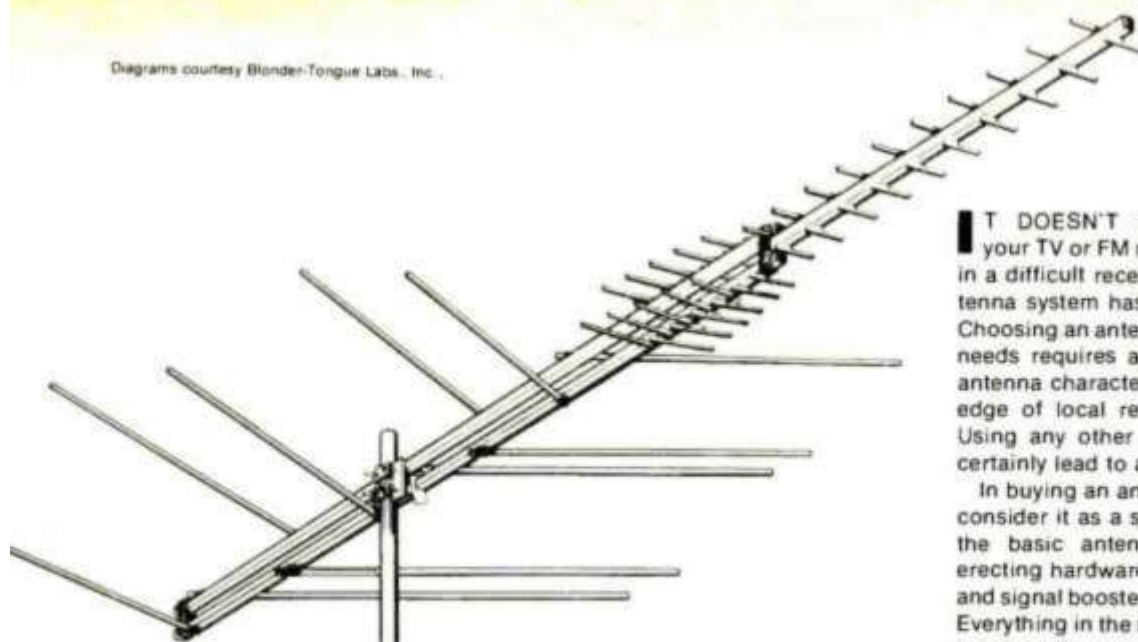
CLEAR BEAM'S Trailer-Tenna utilizes universal (rust proof) mounting brackets which insure a neat, attractive installation on any make of mobile home. The entire unit is supported from the structural steel beams under trailer's chassis, not from trailer walls. Shipped as a complete kit - nothing else to buy. Can be installed in minutes without the use of special tools.

Model T150



**CLEAR BEAM** TV ANTENNAS • TELESCOPING MASTS • ACCESSORIES  
 CANOGA PARK, CALIF. • CHICAGO, ILL.

Diagrams courtesy Blonder-Tongue Labs., Inc.



# GUIDE TO CHOOSING TV & FM ANTENNAS

**I**T DOESN'T matter how good your TV or FM receiver is, if you are in a difficult reception area, your antenna system has to be satisfactory. Choosing an antenna that will fill your needs requires an understanding of antenna characteristics and a knowledge of local reception conditions. Using any other criteria will almost certainly lead to an improper choice.

In buying an antenna, remember to consider it as a system consisting of the basic antenna, mounting and erecting hardware, transmission line, and signal booster/splitter (if needed). Everything in the system, from the antenna to the input terminals on your receiver, must be selected to provide maximum signal transfer. Although this is important for any type of TV reception, it becomes increasingly so when dealing with color and fringe areas.

There are many electrical and mechanical characteristics of antennas that are important to making an intelligent choice.

**By The Numbers.** The one specification that is almost always included in the description of an antenna is the number of elements it has. As a rule, for a given design, the greater the number of elements, the greater the antenna's gain and the more signal captured. For all-band antennas, the numbers of vhf and uhf elements are generally specified separately.

Most reputable antenna manufacturers and retailers give an honest element count, but it pays to know how to count them properly. This may not be as simple as it sounds because of the configurations of some modern antennas. For example, the log-periodic type (Fig. 1) has its elements angled forward to improve high-frequency response. The antenna is fed at the front end and uses a double boom (instead of transposing the feed line that connects to the various elements). Connecting the individual antenna rods to the upper and lower boom elements effectively transposes or crosses the feedline connections. The two boom elements are insulated from the supporting mast. The design of the antenna, as well as the angle at which it is drawn, might make it dif-

BY JULIUS GREEN

**SMASH  
HIT!**

**TERRIFIC ACCEPTANCE GREETS THE NEW**

**TRIO  
ZIG-ZAG**  
(Patent Pending)

**TV ANTENNA**

The sensational new TRIO ZIG-ZAG TV ANTENNA has already proven its superiority in the field. Thousands of installations have given a new high in TV reception, especially in ultra-fringe areas. Word of mouth has done the rest. TRIO'S plant capacity, taxed to the limit in an effort to supply the amazing demand for the ZIG-ZAG ANTENNA series, is being greatly expanded. Very soon now, your ZIG-ZAG ANTENNA will be supplied, and it's well worth waiting for.

ZIG-ZAG ANTENNAS have replaced every known type of installation and TRIO is proud to report that in EVERY instance the ZIG-ZAG ANTENNA has out-performed them all, even the tried and true TRIO dual-channel yagi.

TV listeners are finding that with a ZIG-ZAG ANTENNA they are no longer tied down to just one or two channels, but are getting excellent reception on channels never seen before. ZIG-ZAG ANTENNA is truly HOT on all VHF channels.



TRIO ZIG-ZAG  
TV ANTENNAS

available in 8 different models, provide a new high in all-channel performance for any area, from metropolitan to ultra-fringe. Tremendous gain, sharp directivity, excellent match to 300 ohm line, sturdy vibration-proof construction and fast, easy installation tells the rest of the TRIO ZIG-ZAG ANTENNA story.

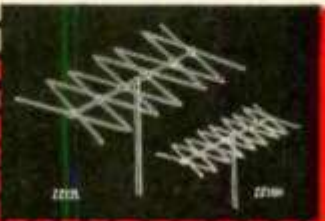
SEE THEM at your JOBBERS. WRITE for CATALOG.



**TRIO ROTATOR**

A worthy companion to the ZIG-ZAG ANTENNA. Tested and proven under every conceivable condition of load, weather, rain and stress. Two motors, one for each rotational direction. Positive electrical stops prevent damage of over-rotation. Positive brake action, no drift even when supporting heavy waves in 80 MPH winds. Precision built of finest materials and UNCONDITIONALLY GUARANTEED by TRIO for TWO YEARS. SMARTLY STYLED DIRECTION INDICATOR has easy to read dial face and easy to use finger touch control. A beautiful instrument you'll be proud to own.

These ZIG-ZAG ANTENNAS provide the ultimate in extreme fringe area reception. ZZ18L provides 12-14 db. gain on Channels 2 thru 6. ZZ18H has a gain of 14 db. on Channels 7 thru 13. These antennas have very narrow forward lobe, high front to back ratio, provide high selection in areas with co-channel interference.



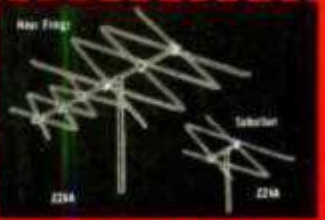
Where maximum gain is not necessary these normal fringe model ZIG-ZAG ANTENNAS are ideal. Model ZZ8L has a gain of 9 db. average on Channels 2 thru 6. The ZZ8H provides an 11 db. gain on Channels 7 thru 13. Forward lobe patterns comparable to good multi-element single channel yagi.



For near fringe area reception these ZIG-ZAG ANTENNA models provide 8-9 db. gains on all Channels 2 thru 13. ZZ6L covers Channels 2 thru 6 and Model ZZ6H covers Channels 7 thru 13. Both models have patterns similar to those of our 3 channel yagi.



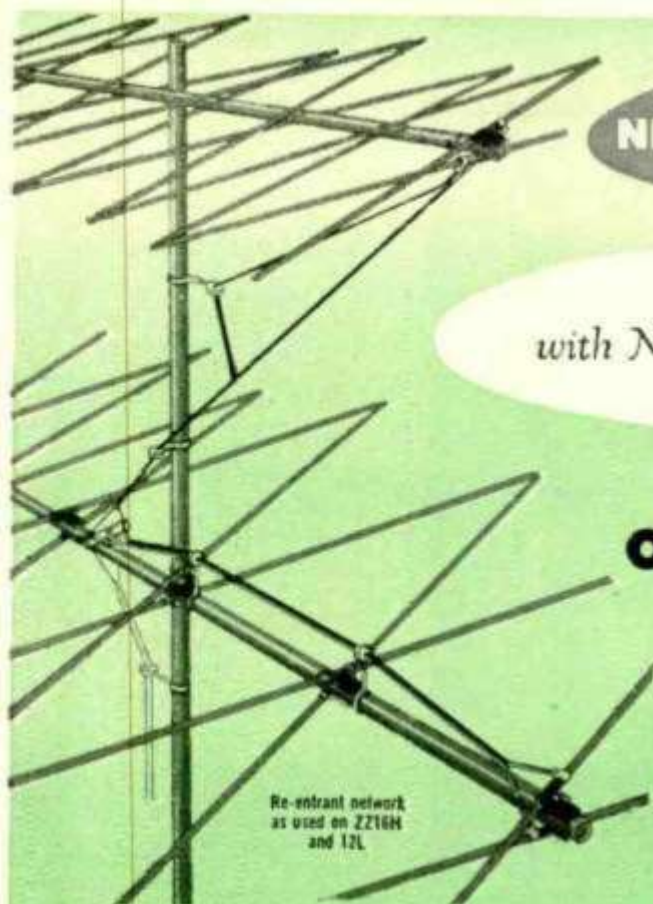
These ZIG-ZAG ANTENNAS provide ALL CHANNEL reception with only ONE antenna law. Model ZZ4A is designed for near fringe area reception of all Channels 2 thru 13, with an average gain of 9 db. Model ZZ4A is for use in suburban areas, providing an average gain of 6 db. on all Channels 2 thru 13.



**TRIO**

TRIO MANUFACTURING COMPANY

GRIGGSVILLE, ILLINOIS



Re-entrant network  
as used on ZZ16H  
and 12L

## NEW IMPROVED ZIG-ZAG

with New Re-entrant Network

## OUTPERFORMS ON ALL CHANNELS

(Using Single Lead-in)

The sensational, radically new TRIO ZIG-ZAG antenna, introduced less than a year ago, has enjoyed the greatest acceptance of any TV antenna ever made!

NOW — TRIO introduces a radically new improvement that makes this great antenna even greater than before! It consists of a new re-entrant type impedance matching network for ZIG-ZAG antennas which now provides an almost perfect impedance match to the feedline on EVERY channel!

### UNIFORMLY HIGH GAIN

There is no measurable difference in gain on ANY channel whether operating stacked high-band and low-band ZIG-ZAG antennas from a single feed-line or using them separately. There is no insertion loss such as found in isolation networks. For example, the ZZ12L and ZZ16H now provide 3 to 6 DB. more gain than elaborate, stacked cut-to-channel arrays. This additional gain is often the difference between a good picture and a poor one.

Elaborate tests conducted all over the country under every conceivable type of terrain and in locations where ten out of the thirteen VHF channels were available, proved conclusively that TRIO ZIG-ZAG ANTENNAS OUTPERFORM ANY and EVERY colinear, conical, or broadband multi-element Yagi on the market today — AND ZIG-ZAG

does it on ALL VHF channels. Whether it's a new installation or a replacement, INSIST ON TRIO ZIG-ZAG TV ANTENNAS, with their EXTREMELY HIGH GAIN, SHARP DIRECTIVITY, SUPERIOR LINE MATCH, MULTI-CHANNEL COVERAGE and RUGGED-LONG LIFE CONSTRUCTION.

Illustrated above is the NEW re-entrant network developed by TRIO engineers for the model ZZ12L and ZZ16H combination. Current shipments will include the complete network. There is nothing else needed for single feed-line operation!

Used stacked — or separately — TRIO ZIG-ZAG antennas are the hottest ever designed!

New descriptive literature available direct or from your supplier.

*New network supplied with all high-gain Zig-Zag models*

### ANOTHER NEW TRIO PLANT TO SERVE YOU!

This modern, new addition to TRIO's present facilities adds 24,000 sq. ft. of manufacturing space. A new laboratory, not illustrated, has also been added.

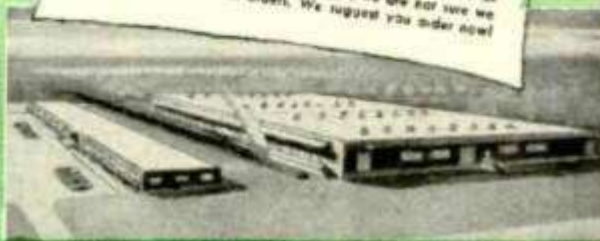
Although TRIO has definite commitments for 60 days of aluminum to meet increased demands, we are not sure we will be able to fill all orders. We suggest you order now!



# TRIO

Manufacturing Co.

GRIGGSVILLE, ILLINOIS



# the **CHAMPION** is the most sensitive all-channel VHF antenna ever designed!

Stacked CHAMPION provides:  
11-13 D B High Band gain  
6½-7½ D B Low Band gain

Here is a totally NEW kind of antenna, completely different — in principal and performance — from any VHF antenna you've ever seen! Since the lifting of the TV freeze means a gradual disappearance of the single-channel VHF area, the VHF antenna of the future will be a multi-channel antenna. Prepare now for outstanding reception on all VHF channels — present and future — with Channel Master's super-sensitive CHAMPION! Outperforms every all-channel VHF antenna made today — and many Yagis, too!

## COMPARE these features with the antenna you are now using:

- Folded dipoles throughout — give close to 300 ohms impedance across the entire band.
- Screen-type reflector provides high uniform gain on every channel, 2 through 13. Not frequency sensitive — this reflector provides more than twice as much extra gain as straight bar reflectors.
- Phase-correcting harness is built-in and fully assembled; the only wiring you do is to attach the lead-in.
- All-aluminum construction . . . lightweight, durable, non-corrosive.

### MARVEL OF PRE-ASSEMBLY

assembles faster than a  
5-element yagi!

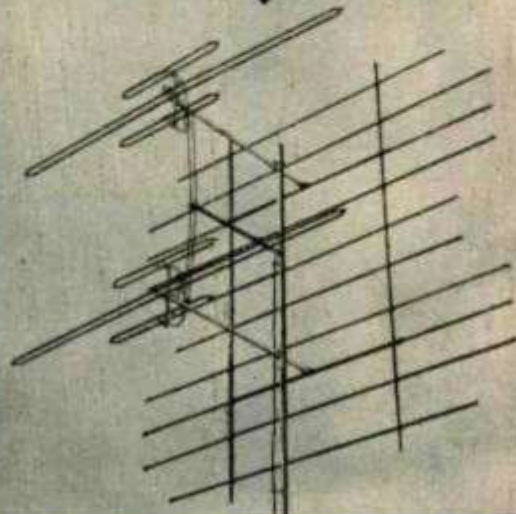
Collapsed "Pop-Up" screen opens instantly — no loose rods, elements or hardware. "Tri-Pole" assembly features automatic Spring Lock Action — all dipoles snap permanently into place without wing nuts or any other hardware.

Single  
Bay

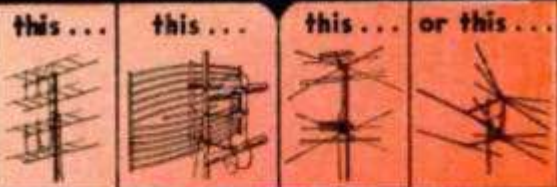
It's a CHAMPION in any area!

- 1-bay—local areas
- 2-bay—secondary and fringe areas
- 4-bay—super-fringe areas

## THIS ANTENNA...

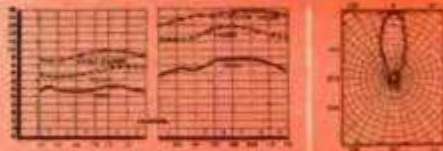


## OUT-PERFORMS:



The 2-Bay CHAMPION actually  
gives you the performance of:

- Separate 5-element Yagis for every Low Band channel!
- Separate 10-element Yagis for every High Band channel!



Model No.		List Price
325	Single Bay	\$70.83
325-2	2-Bay	\$49.24
325-4	4-Bay	\$88.87
Separate Stacking Harness		
325-3	1-Bay Harness	\$ 2.04
325-5	4-Bay Harness	\$ 4.75

Send for complete technical literature.

**CHANNEL MASTER CORP.**

ELLENVILLE, N. Y.



**SETTING THE PACE . . .**

in **ALL-CHANNEL**  
fringe antennas!



**SUPER SUN BEAM**  
Model SB66Z

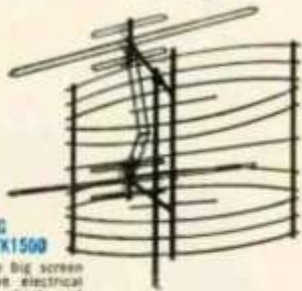
The new, super-sharp yagi utilizing the unique Tri-King dipole together with completely insulated parasitic directors and reflectors! Actually two antennas in one for peak high and low band reception.



Clear Beam's **5** peak performers solve all fringe problems\* . . .

**TRI-KING**  
Model TK1500

Highest gain of the big screen antennas! Flat wave electrical spacing. Eliminates ghosts and co-channel interference. Full radar screen - wind tunnel tested!



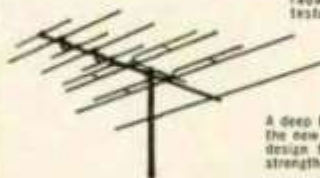
**BIG CHIEF**  
Model BC12-2

An advanced cone-Yagi with element diameters varied for precision tuning, matched sensitivity and peak performance in high and low band!



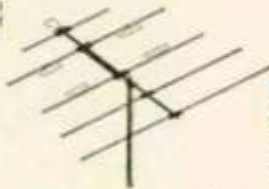
**SKY SWEEP**  
Model MYS80

A deep fringe yagi incorporating the new magnetic "Focal-Sharp" design for concentrating signal strength!



**HUNTER** Model MYH50

New wave trap principle gives extremely high gain, sharp directivity, in-phase tuning on all channels. New, flat design for low wind resistance!



\*Spectrum-tested for balanced color reception!

affiliated with  
TEMPO TV products



**CLEAR ANTENNA CORP.**  
**BEAM**

Conoga Park, Calif. • Chicago, Ill.

Warehouses in Seattle, Portland, San Francisco, Honolulu, Dallas, Kansas City, Chicago, Detroit, Baltimore