

UHF converter and antenna guide

Selection of right converter and antenna critical for UHF

by I. S. Blonder

Chairman of the Board,
Blonder-Tongue Laboratories, Inc.



There has been a long-standing prejudice against UHF. Since the band opened in 1952, many otherwise knowledgeable technicians have considered UHF reception to be inferior to VHF. Yet the recent New York City tests conducted by the FCC have proved that this is simply not so.

There is a reason for this paradox — equipment. In 1953, the state of the UHF art was relatively primitive. Today, experienced manufacturers like Blonder-Tongue are able to produce equipment capable of providing UHF reception that is, in many ways, superior to VHF.

Today's Blonder-Tongue UHF converters reflect the improvements drawn from our experience in every UHF area of the country. The consumer has the opportunity to buy a converter which has withstood the most critical test of all, performance in nearly 3 million homes. Blonder-Tongue provide brilliant color pictures and sharp black & white reception on all UHF channels.

As for antennas, UHF has a definite advantage over VHF. Because the UHF wavelength is so small, high gain, efficient antennas are small and cost little. The periodic principle

proved so successful in the U.S. Satellite program is especially applicable to UHF. The Blonder-Tongue Golden Dart (outdoor) and Golden Arrow (indoor) antennas utilize this principle. While they are compact, these antennas provide more gain than the large VHF yagis. What's more important, their patterns are clean, rejecting unwanted "ghost" signals. With a little extra care in selecting and installing UHF equipment, you can often provide your customers with better UHF pictures than they've been watching on VHF.

Blonder-Tongue UHF converters

These all-channel UHF converters, your best investment in TV enjoyment, add channels 14-83 to your present set. They are particularly suited to meet the critical demands of color TV. The famed BTU-2T and 99S converters feature peak performance on all UHF channels, easy installation, reliable, long-term operation. Maximum stability for drift-free performance and a low noise figure for snow-free reception. The BTU-44 employs a tunnel diode circuit for excellent, low cost battery operation.

Blonder-Tongue UHF antennas

The UHF antennas are designed to match the high performance standards on all UHF channels of our famed UHF converters. They employ the well-known Periodic principle, to provide uniform, high gain across the entire UHF spectrum for sharp, ghost-free pictures. Full bandwidth makes these UHF antennas excellent for color and black & white TV.

The Golden Dart is an outdoor UHF antenna which comes completely pre-assembled with nothing to snap out, no screws to tighten. The Golden Arrow is an indoor UHF antenna, which outperforms all other available indoor UHF antennas.



ALL-CHANNEL UHF CONVERTERS

DESCRIPTION	EFFECTIVE RECEPTION RANGE*	INPUT CHANNELS	OUTPUT CHANNELS	NET
BTU-2T —Deluxe all-channel, UHF converter/amplifier. Adds all UHF channels to any set. Triples TV signal strength. Easiest tuning with dual-speed channel selector. UL approved.	Used with an outdoor antenna anywhere up to 50 miles from station. With indoor antenna, up to 25 miles.	14-83	5 or 6	\$26.95
BTC-99S —All-channel, UHF converter. Adds all UHF channels to any set. Provides maximum signal power. Drift-free, distortion-free. UL approved.	Can be used with indoor antenna for prime signal areas and outdoor antenna up to 25 miles from station.	14-83	5 or 6	\$19.50
BTU-44 —All-channel, tunnel diode UHF converter. Utilizes tunnel diode for maximum reliability. Operates on ordinary flashlight battery which lasts from 6 to 9 months.	Can be used with indoor antenna for prime signal areas and outdoor antenna up to 25 miles from the station.	14-83	5 or 6	\$13.20

ALL-CHANNEL UHF ANTENNAS

DESCRIPTION	EFFECTIVE RECEPTION RANGE*	FRONT-TO-BACK RATIO	NET
GOLDEN DART outdoor UHF antenna Uses Periodic principle, 11 working elements for uniform high gain across the entire UHF spectrum.	Up to 50 miles.	20db min.	\$3.55
GOLDEN ARROW indoor UHF antenna Employs 10 working elements to provide constant high gain and matched impedance. Full Bandwidth — flat response.	Up to 20 miles.	20db min.	\$2.70

*In weak signal areas, use a model Able-U2 UHF amplifier.

**ENJOY BETTER
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BLONDER-TONGUE.**

**SAVE DURING
THE VAL-U-RAMA
NOW GOING ON.**



BLONDER-TONGUE

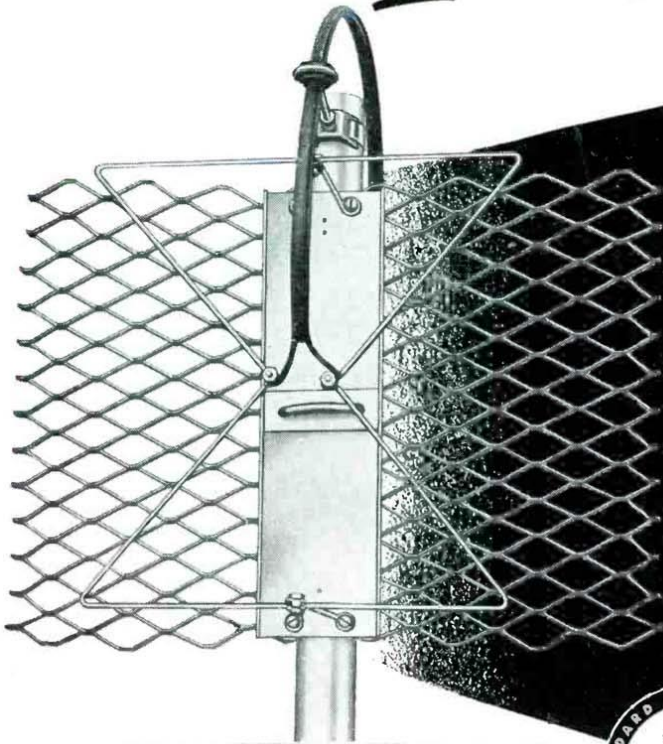
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UW-2



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LOW PRICES

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TV Antennas
MODEL U-4

A superb quality UHF antenna featuring uniform gain with low vertical radiation (no ghosts). 300 ohm terminal impedance... measures 12x12x15 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.



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Identified by its golden screen

FACTORY-ASSEMBLED

- vibration-proof
- ready to install
- reduces installation cost
 - sturdily constructed
- only 1 mast bracket to attach
- anti-corrosion plating meets government specifications

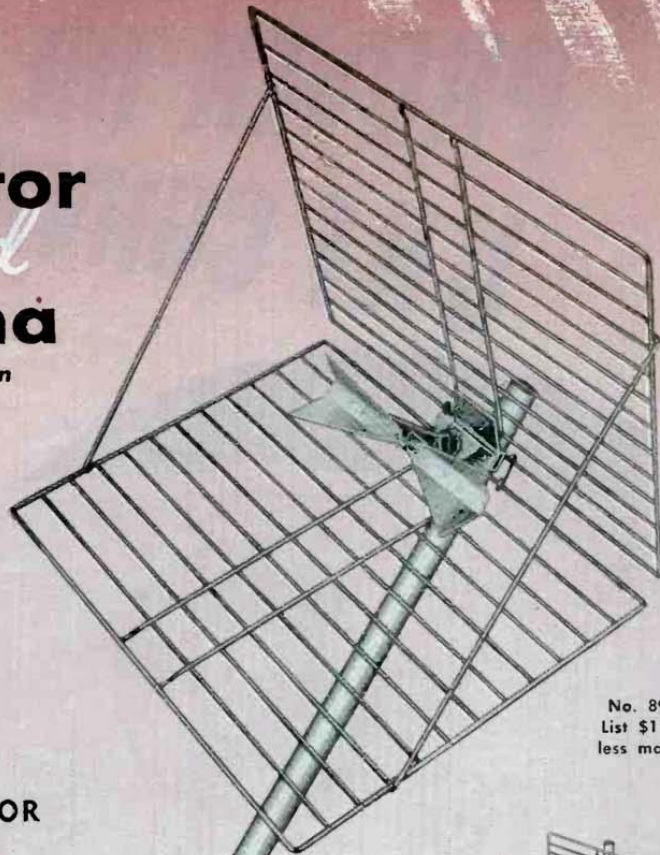
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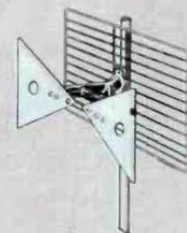
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- 1 OPEN CARTON . . . REMOVE FACTORY-ASSEMBLED UNIT
- 2 OPEN LIKE A BOOK . . . FASTEN STRUT WIRES
- 3 MOUNT ON MAST . . . JOB COMPLETE



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List \$11.75
less mast



NO. 8965 Butterfly
Wishbone Antenna
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With Stacking Bar



No. 8642 Universal
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No. 9000 "Golden Halo"
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