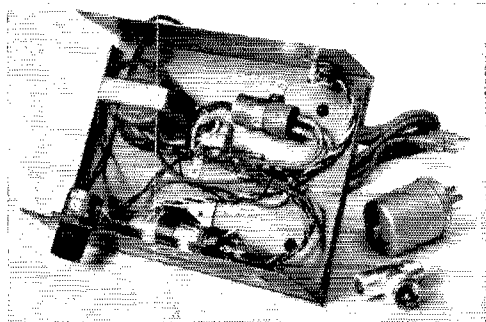


### Hallicrafter HA-8 Modulation Indicator

|                     | Display Unit                     | Detector Unit          |
|---------------------|----------------------------------|------------------------|
| Height:             | 2 $\frac{5}{8}$ inches           | 1 $\frac{1}{2}$ inches |
| Width:              | 7 $\frac{1}{2}$ inches           | 1 $\frac{1}{2}$ inches |
| Depth:              | 5 $\frac{3}{4}$ inches           | 2 $\frac{5}{8}$ inches |
| Weight:             | 2 $\frac{1}{2}$ pounds           | 3 ounces               |
| Power requirements: | 125 volts, 60 cycles, 3 watts.   |                        |
| Price class:        | \$25.00                          |                        |
| Manufacturer:       | Hallicrafters Co., Chicago, Ill. |                        |

dow, with a very bright light showing at the exact center. Instructions and diagrams are included in the HA-8 manual for setting up the monitor for a.m. transmission using linear amplifier systems and for high level a.m. modulation.

Power-handling capacity of the Monitor is 1000 watts if the s.w.r. is kept below 2 to 1. It has a minimum r.f. power requirement of 40 watts. It can be used between 3 and 30 Mc. at

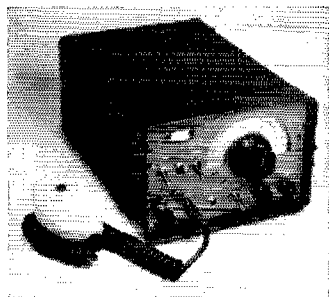


Bottom view of the HA-8 Splatter Guard. The "T" connector, detector unit and connecting cable are at the right of the photograph.

power levels below 40 watts, down to as low as 10 watts, if the 2-pf. capacitor,  $C_1$ , in the voltage divider in the detector unit is increased to 4 pf.

The Splatter Guard is finished in light gray with a black and gray panel. The display window measures  $1\frac{1}{4} \times \frac{5}{8}$  inches.

— E.L.C.

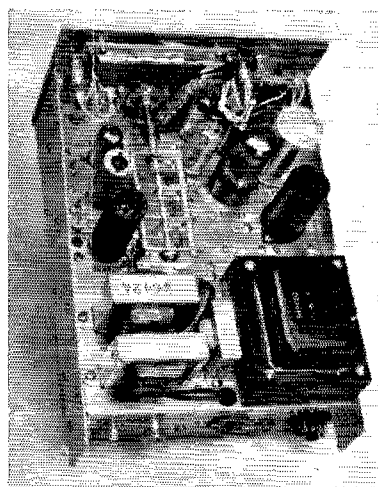


## Whippany Laboratories

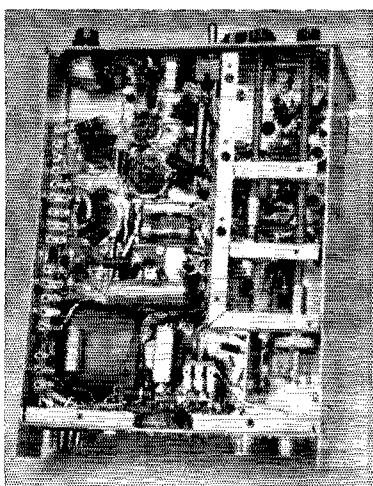
### "Li'l Lulu" 50-Mc. Transmitter

SIX-METER men of Northern New Jersey know "Li'l Lulu" well. A complete phone-c.w. transmitter of proven qualities, it was designed by Ed Ladd, W2IDZ. Early versions of the rig were worked out when 6-meter activity was all but at a standstill in this, the most populous of the early Channel 2 TV areas. When the transmitter first made its appearance one had to take every precaution to be sure that a 50-Mc. station was "clean." W2IDZ took those precautions with Li'l Lulu, and so made an important contribution to the winning of this tough TVI battle, demonstrating that operation on 50 Mc. is possible in competition with Channel 2.

The transmitter passed other rigorous tests. It went on DXpeditions to rare western states, and accompanied W2IDZ on a highly successful trip to the far North in the days of worldwide  $F_2$ DX on 50 Mc. Variations and copies of it were made for numerous 6-meter operators of the New Jersey area, which at that time was a very rough place for this breed of ham. Li'l Lulu survived the TVI struggle, and now it is available in manufactured form: a complete package with gang-tuned v.f.o., modulator, power supply and low-pass filter.



Interior view of Li'l Lulu, a complete 50-Mc. transmitter. The v.f.o., buffer and amplifier tubes are at the top left of the picture and the ganged tuning capacitor adjacent to them. Audio and power components are at the right.



Bottom view of the 50-Mc. transmitter. R.f. circuits are at the top.

One common cause of TVI, radiation of unwanted oscillator or exciter harmonics that fall in the low TV channels, is eliminated by designing the 6BH6 v.f.o. so that it can operate stably with its grid circuit on 25 to 27 Mc., instead of the lower frequencies generally used. The high-C oscillator circuit is temperature-stabilized and both the heater and plate-screen voltages are regulated. The oscillator plate circuit is on 50 Mc. The following 6BH6 buffer also operates from the same regulated heater and plate-screen sources. The oscillator plate circuit is self-resonant, so that no retuning is required across the band.

The final stage is a 12DQ7 amplifier. Its plate circuit and the buffer tuning are ganged to the v.f.o. control. Once the amplifier plate padder and the output loading capacitor are adjusted for the middle of the part of the band you normally expect to use, no adjustment other than turning the v.f.o. to the desired frequency setting is needed as you move around.

### Whippany Laboratories Li'l Lulu 50 Mc. Transmitter

Height: 5 $\frac{3}{4}$  inches.  
Width: 8 inches.  
Depth: 11 $\frac{3}{4}$  inches.  
Weight: 16.5 pounds.  
Power Requirements: 115 volts a.c., 67 watts; 12.6 volts d.c., 6.9 amp.  
Price Class: \$225.00  
Manufacturer: Whippany Laboratories, Inc., 1275 Bloomfield Ave., West Caldwell, N.J.

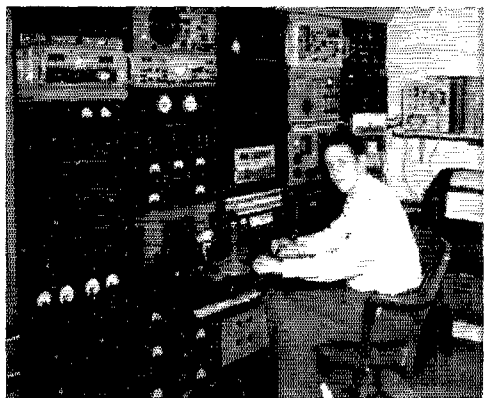
A class-A modulator is provided, with speech amplification sufficient for crystal or high-output dynamic microphones. Provision is made for carbon microphone as well. The microphone input circuit is wired for push-to-talk, but the operator is not limited to this mode. There is a front-panel send-receive control for those who prefer it. W2IDZ is an old hand at 50-Mc. DX work, so his brainchild has provision for c.w. It is not merely a cathode jack; there is a built-in keying filter and a mode switch that sets up the transmitter properly for c.w. There is a v.f.o.-spot switch, so the operator has no excuse for swishing around the band with the signal on the air.

Mechanical stability is assured by the use of heavy-gage metal and plenty of bracing. The case is steel of solid wrap-around design. The r.f. portions of the transmitter are completely shielded when the unit is in the case.

The built-in power supply is transistorized, with provision for 12-volt d.c. or 115-volt a.c. power. Either positive or negative ground may be used in mobile work. The supply is set up to handle a companion receiver and there is a built-in antenna relay, so to put Li'l Lulu on the air one merely connects the antenna, a patch cord to the receiver, and a microphone and key.

—E. P. T.

## Strays



Talk about a well-equipped shack—look at this one! It's the property of Jay O'Brien, W6GDO (shown at the operating position) and his XYL, Jan, K6HHD. Jay's primary interests are s.s.b. and c.w. on two meters, but anyone can see that he's able to go on any band at any time . . . The 2-meter rig runs a cool 2 kw. p.e.p. and a kw. on a.m. and c.w. Also shown in the picture are the all-band kw. rig and receiving and monitoring equipment.

Jay is a Class 1 Official Observer.