

## *Stacked Aperture Antenna System Installed in Hawaii*

**A** stacked aperture antenna system was recently installed utilizing broadband UHF panels and a VHF spiral antenna to serve the Honolulu market and the greater Oahu.

For those broadcasters who need to broadcast a digital and analog signal simultaneously, JAMPRO's TV antennas can be stacked to minimize tower loading. With tower loading and availability at a premium, the stacking of two proven and reliable antennas is yet another example of JAMPRO's success providing broadcast solutions.

"We expect to utilize our wide variety of VHF and UHF products for the broadcaster with various limitations," said Alex M. Perchevitch, Vice President and Sales Manager.

The UHF broadband antenna panels can be modularly placed around a tower to produce omni or directional patterns. The panel is broadband in order to handle NTSC channels 26 to 66 with a VSWR of 1.1:1 over this range. The panel has a typical input of 2.5kW per panel, but higher power models are also available. JAMPRO is the only U.S. manufacturer to completely design, test and manufacture a broadband UHF panel antenna in the United States.



The JTC Spiral is the first circular polarized TV antenna manufactured. The Spiral is capable of a power input of 200kW and 20% bandwidth. The Spiral is customized for each application and can be supplied for any single VHF or UHF channel: 2-70. The Spiral produces the most omni azimuth pattern with a tolerance of +25dB at some frequencies.

This is just one example of stacking two proven and reliable antennas into a common aperture. Other antenna models can be configured to produce similar results.

